

1 *EDIT 1AJ

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1412THE

COPYRT MODIFIERS.

NS2796

4 ACTIVE LINE(S).

1 INACTIVE LINE(S).

1 INSERTED LINE(S).

1AJ MODIFIERS.

| | | | | | | | | | | | |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1AJ1 | 1AJ10 | 1AJ24 | 1AJ31 | NS2201 | 1AJ60 | NS2268A | NS2358 | 1AJ87 | 1AJ98 | 1AJ107 | NS2719 |
| 1AJ2 | 1AJ11 | 1AJ27 | 1AJ33 | NS2205 | NS2244 | 1AJ70 | NS2362 | 1AJ88 | 1AJ99 | 1AJ108 | NS2724 |
| 1AJ3 | 1AJ12 | 1AJ28 | 1AJ34 | NS2218 | NS2266 | NS2181B | 1AJ82 | 1AJ89 | 252L678 | 1AJ109 | NS2731 |
| NS2004 | 1AJ13 | 1AJ28A | 1AJ35 | 1AJ40 | NS2268 | NS2308 | 1AJ83 | 1AJ90 | NS2495 | 261L700 | 272L774 |
| NS2006 | 1AJ14 | 1AJ30 | 1AJ36 | 1AJ45 | NS2287 | NS2323 | 1AJ81 | 1AJ91 | NS2516 | 1AJ110 | NS2731A |
| NS2009 | 1AJ15 | NS2091A | 1AJ37 | 1AJ46 | NS2298 | NS2334 | 243L647 | 1AJ92 | 1AJ100 | NS2620 | NS2738 |
| NS2010 | 1AJ16 | 1AJ32 | 1AJ38 | 1AJ47 | 1AJ23A | 1AJ69 | NS2324 | 1AJ93 | 1AJ101 | 1AJ111 | 273L780 |
| NS2021 | 1AJ17 | NS2031A | NS22000 | 1AJ48 | 1AJ56 | 1AJ71 | NS2388 | 251L664 | 1AJ102 | 1AJ112 | NS2738C |
| NS2025 | 1AJ18 | NS2100 | NS2134 | 1AJ49 | 1AJ58 | 1AJ72 | NS2392 | 1AJ92A | 1AJ103 | 271L716 | NS2746 |
| NS2031 | 1AJ19 | NS2105 | NS2143 | 1AJ50 | 1AJ61 | 1AJ73 | NS2395 | 1AJ93A | 1AJ104 | 1AJ114 | NS2748 |
| NS2044 | 1AJ20 | NS2107 | 1AJ41 | 1AJ51 | 1AJ62 | 1AJ74 | NS2418 | NS2433 | 1AJ105 | 1AJ115 | 274L797 |
| NS2050 | 1AJ21 | NS2112 | 1AJ42 | 1AJ52 | 1AJ63 | 1AJ75 | NS2429 | 1AJ94 | 253L688 | NS2685 | NS2753 |
| NS2053 | 1AJ22 | NS2114 | 1AJ43 | 1AJ53 | 1AJ64 | 1AJ76 | 1AJ56A | 251L670 | NS2488A | NS2696 | 281L803 |
| NS2061 | NS21000 | NS2117 | 1AJ44 | 1AJ54 | 1AJ65 | 1AJ78 | 1AJ75A | 1AJ96 | NS2433B | 1AJ115A | 1AJ119 |
| 1AJ5 | NS2067 | NS2124 | V22L602 | 1AJ55 | 1AJ66 | 1AJ79 | 1AJ75B | NS2463 | NS2542 | 1AJ116 | NS2738D |
| 1AJ6 | NS2069 | 1AJ23 | NS2152 | 1AJ57 | 1AJ67 | 1AJ80 | 1AJ84 | NS2467 | NS2578 | NS2707 | NS2776 |
| 1AJ8 | NS2071 | 1AJ26 | NS2181 | V23L617 | 1AJ68 | 242L642 | 1AJ85 | NS2488 | 1AJ96A | 1AJ117 | |
| 1AJ9 | NS2087 | 1AJ29 | NS2197 | NS2236 | 241L630 | NS2355 | 1AJ86 | 1AJ97 | 1AJ106 | 271L750 | |

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|-------|----------|--|--|--|--|---------|-----|-----|--|--|
| *CALL | COMPMAC | | | | | 1AJ | 154 | | | |
| *CALL | COMSACC | | | | | 1AJ | 155 | | | |
| *CALL | COMSCPS | | | | | 1AJ | 156 | | | |
| *CALL | COMSDSP | | | | | 1AJ | 157 | | | |
| *CALL | COMSEJT | | | | | 1AJ | 158 | | | |
| *CALL | COMSEVT | | | | | V23L617 | 12 | 158 | | |
| *CALL | COMSJCE | | | | | 1AJ | 159 | | | |
| *CALL | COMSJIO | | | | | 1AJ | 160 | | | |
| *CALL | COMSJRO | | | | | 1AJ | 161 | | | |
| *CALL | COMSLFD | | | | | 1AJ | 162 | | | |
| *CALL | COMSMSC | | | | | 1AJ | 163 | | | |
| *CALL | COMSMSP | | | | | 1AJ | 164 | | | |
| *CALL | COMSPIM | | | | | 1AJ | 165 | | | |
| *CALL | COMSPRD | | | | | 1AJ | 166 | | | |
| *CALL | COMSPFM | | | | | 1AJ | 168 | | | |
| *CALL | COMSREM | | | | | 1AJ | 171 | | | |
| *CALL | COMSRPV | | | | | 1AJ | 173 | | | |
| *CALL | COMSSCD | | | | | NS22000 | 2 | 173 | | |
| *CALL | COMSSCP | | | | | 1AJ | 174 | | | |
| *CALL | COMSSCR | | | | | 1AJ | 175 | | | |
| *CALL | COMSSRT | | | | | 1AJ106 | 1 | 175 | | |
| *CALL | COMSSRU | | | | | 1AJ | 176 | | | |
| *CALL | COMSSSD | | | | | 1AJ | 177 | | | |
| *CALL | COMSSSE | | | | | 1AJ | 178 | | | |
| *CALL | COMSSSJ | | | | | 1AJ | 179 | | | |
| *CALL | COMSZOL | | | | | 1AJ | 180 | | | |
| *CALL | COMPAST | | | | | 1AJ | 837 | | | |
| *CALL | COMP GFP | | | | | 1AJ | 838 | | | |
| *CALL | COMPRLS | | | | | 1AJ | 840 | | | |

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|-------|---------|---------|-------|-------|
| *CALL | COMPCUA | 1AJ | 1106 | |
| *CALL | COMSSSD | V22L602 | 35 | 1207 |
| *CALL | COMPACS | 1AJ | 2568 | |
| *CALL | COMPCMX | 1AJ | 2569 | |
| *CALL | COMPSRR | NS2748 | 10 | 2569 |
| *CALL | COMPCVI | 1AJ | 2574 | |
| *CALL | COMPC2D | 241L630 | 44 | 2575 |
| *CALL | COMPECX | 1AJ | 2576 | |
| *CALL | COMPNFL | 242L642 | 120 | 2576 |
| *CALL | COMPRCS | 1AJ | 2577 | |
| *CALL | COMPRNS | 1AJ | 2579 | |
| *CALL | COMPSTA | 1AJ | 2581 | |
| *CALL | COMPRSS | 271L750 | 95 | 2588 |
| *CALL | COMPCVI | 1AJ | 5186 | |
| *CALL | COMPCUA | V23L617 | 230 | 5371 |
| *CALL | COMPC2D | NS21000 | 436 | 5375 |
| *CALL | COMPCLX | 1AJ | 7097 | |
| *CALL | COMPSRR | NS2748 | 36 | 7097 |
| *CALL | COMPRES | 1AJ | 7099 | |
| *CALL | COMPRLS | 1AJ | 7100 | |
| *CALL | COMPRSI | 1AJ | 7101 | |
| *CALL | COMPCRS | 1AJ | 8047 | |
| *CALL | COMPFGP | NS21000 | 535 | 8047 |
| *CALL | COMPRCS | 1AJ | 8048 | |
| *CALL | COMPRNS | NS21000 | 536 | 8048 |
| *CALL | COMPSSF | NS2578 | 10 | 8048 |
| *CALL | COMPUPS | NS21000 | 537 | 8048 |
| *CALL | COMPAST | 1AJ | 8057 | |
| *CALL | COMPCUA | 1AJ92 | 63 | 8057 |
| *CALL | COMPSTA | 1AJ | 8058 | |
| *CALL | COMSMSP | 1AJ | 8278 | |
| *CALL | COMPSSF | 1AJ | 8941 | |
| *CALL | COMPSSF | 1AJ | 8942 | |
| *CALL | COMPCRA | 1AJ | 8943 | |
| *CALL | COMPCLD | 1AJ | 9949 | |
| *CALL | COMPDDT | 1AJ | 9950 | |
| *CALL | COMPRNS | 1AJ | 9952 | |
| *CALL | COMPFGP | 1AJ | 10215 | |
| *CALL | COMPFGP | NS2738D | 3 | 10845 |
| *CALL | COMPSSF | NS2578 | 16 | 10845 |
| *CALL | COMPCRA | 1AJ | 11377 | |
| *CALL | COMPRNS | 1AJ | 11378 | |
| *CALL | COMPSSF | 1AJ | 11379 | |
| *CALL | COMPSSF | 1AJ | 11380 | |
| *CALL | COMSHIO | NS2087 | 7 | 11435 |
| *CALL | COMPRSS | 241L630 | 315 | 12072 |
| *CALL | COMPFLF | 1AJ | 12144 | |
| *CALL | COMPCTE | 1AJ | 12677 | |
| *CALL | COMPNFL | 1AJ | 12678 | |
| *CALL | COMPRFI | V23L617 | 907 | 12678 |
| *CALL | COMPRSS | 1AJ | 12679 | |
| *CALL | COMPWSS | 1AJ42 | 13 | 12679 |
| *CALL | COMPAST | 1AJ | 12769 | |

15228 ACTIVE LINE(S).

4582 INACTIVE LINE(S).

7039 INSERTED LINE(S).

1412THE

DECKS ON PROGRAM LIBRARY.

| | | | | | | | | | | | | | |
|----|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|
| 1 | COPYRT | COMCSFN | COMP2D | COMPVID | COMSWEI | 0ST | IHFU | TDUMP | COMFXFO | COMXSEB | EORSS15 | SUBMT | 1 |
| 2 | CETEXT | COMCSKW | COMPDDT | COMPVLC | COMSZOL | 0VJ | INSTALL | TDUOUT | COMFXSB | COMTALT | M86FORM | TARO | 2 |
| 3 | ECSTEXT | COMCSNF | COMPDLI | COMPVMS | COMS0VU | 0VU | ISF | TDUTAB | COMFXSC | COMTBLD | M86SERV | TERMDEF | 3 |
| 4 | PPTXT | COMCSNM | COMPPTS | COMPVPA | COMS1DS | 1AJ | KEY | TERMIO | COMFXWK | COMTBLP | EORSS16 | TSIM | 4 |
| 5 | PSSTEXT | COMCSOE | COMPDVC | COMPVSP | COMS1MV | 1CD | KEYEX | TRMDEF | FSEBUFF | COMTCTW | VERMSGC | TSTAT | 5 |
| 6 | NOSTEXT | COMCSRI | COMPDV5 | COMPWBB | COMS1RM | 1CK | KEYPAN | ULIB | FSECMDS | COMTDBG | EORSS17 | WAIT | 6 |
| 7 | SSYTEXT | COMCSRT | COMPECX | COMPWCB | COMS176 | 1CL | KRONREF | VALEX | FSEDATA | COMTDBP | MSE | WAITINP | 7 |
| 8 | SYSTEXT | COMCSSN | COMPFAT | COMPWEI | COMTBAN | 1DL | LDI | VALNET | FSEEDIT | COMTDEF | MSESLAV | WSTAT | 8 |
| 9 | CPCOM | COMCSST | COMPFLF | COMPWSS | COMTCVT | 1DS | LIBEDIT | VCC | FSEEX | COMTDER | MSECONF | BTASK | 9 |
| 10 | PPCOM | COMCSTF | COMPGBN | COMPWVE | COMTDA8 | 1HY | LIBGEN | VDTSUBS | FSEFILE | COMTDFP | EORSS18 | CRMTASK | 10 |
| 11 | COMCMAC | COMCSYS | COMPGBP | COMSACC | COMTDP6 | 1IO | LIBRARY | VERIFY | FSEFORM | COMTERR | SSCONTL | CTASK | 11 |
| 12 | COMCCMD | COMCTIO | COMPBTN | COMSATF | COMTDP9 | 1IS | LIDOU | VFYLIB | FSEHELP | COMTFMT | FREEDSK | ITASK | 12 |
| 13 | COMABZF | COMCUPC | COMPICP | COMSBIO | COMTDSP | 1LC | LISTLB | VIRTERM | FSELIB | COMTLAB | DESTAGE | KDIS | 13 |
| 14 | COMAFET | COMCUSB | COMPIFR | COMSCIO | COMTNAP | 1MA | LISTLID | MAC1 | FSEMAIN | COMTLBP | EORSS19 | LOGT | 14 |
| 15 | COMAMSS | COMCVDE | COMPIMB | COMSCPD | COMTVDT | 1MB | LIST80 | MAC2 | FSEPROC | COMTMOV | ISHARED | MSABT | 15 |
| 16 | COMAPFP | COMCVDT | COMPIOU | COMSCPS | COMT6DP | 1MC | LOADBC | RFORM | FSESCRN | COMTMVD | COMKMAC | OFFTASK | 16 |
| 17 | COMAPFS | COMCVLC | COMPIRA | COMSCVS | COMT8AD | 1MD | L072 | SYMSERV | FSESUBS | COMTMVP | COMKARF | RCTASK | 17 |
| 18 | COMCARG | COMCVQF | COMPLDA | COMSDFS | COMT9DP | 1MI | MAG | CPUREL | FSETABL | COMTOUT | COMKBRD | RTASK | 18 |
| 19 | COMCARM | COMCWOD | COMPLDB | COMSDFT | COMUCPD | 1MS | MAGNET | APRINST | FSEWORK | COMTSIT | COMKBST | STASK | 19 |
| 20 | COMCBAN | COMCWTA | COMPMRA | COMSDSL | COMUEST | 1MT | MFILES | CMRINST | FSTEACH | COMTUSE | COMKCBD | SYMSG | 20 |
| 21 | COMCBLP | COMCWTC | COMPMM | COMSDSP | COMUFMT | 1MU | MLSEXEC | EQPINST | SMFEX | COMTUSP | COMKCBT | XTASK | 21 |
| 22 | COMCCCE | COMCWTH | COMPMMQ | COMSDST | COMUJCA | 1MV | MODIFY | IPRINST | SMFSTAT | COMTVLD | COMKCRM | COMCCDM | 22 |
| 23 | COMCCDD | COMCWTO | COMPMSV | COMSEJT | COMUOUT | 1PP | MODVAL | COMLBAS | SMF | COMTVLF | COMKDPB | COMCCDP | 23 |
| 24 | COMCCFD | COMCWTS | COMPNFL | COMSESS | COMUPRB | 1RI | MSI | COMLESM | 1HP | COMTVLM | COMKFIO | COMSSTM | 24 |
| 25 | COMCCHD | COMCWTW | COMPPI | COMSEVT | COMUQPR | 1RM | NOTE | COMLFLD | COMCLNI | COMTVLP | COMKFLD | ADC | 25 |
| 26 | COMCCHG | COMCZAP | COMPPIR | COMSHIO | COMUQQC | 1RO | OPLEDIT | COMLIPR | IAFP | COMTVLV | COMKIPR | BAT | 26 |
| 27 | COMCCIO | COMCZTB | COMPRBB | COMSIOQ | CALLCPU | 1SJ | PACK | COMLSCD | IAFTM | COMTVLX | COMKKIM | DCC | 27 |
| 28 | COMCCNS | COMDMAC | COMPRCB | COMSIOU | CALLDIS | 1TA | PANEL | COMLUEM | IAFTR | CALLFAS | COMKNWC | DDF | 28 |
| 29 | COMCCOD | COMDDBS | COMPRCS | COMSJCE | CALLPPU | 1TM | PANSUBS | COMLVER | 1TN | 1SS | COMKNWF | DOG | 29 |
| 30 | COMCCPA | COMDDCM | COMPRI | COMSJIO | CALLSYS | 1TO | PDU | APRDECK | RECOVER | EORSS1 | COMKOPD | DS1 | 30 |
| 31 | COMCCPM | COMDDIS | COMPREL | COMSJRO | CALLTAB | 1VP | PFAM | CMRDECK | 0MF | GMSG | COMKRRD | HFM | 31 |
| 32 | COMCCPT | COMDDSP | COMPRFI | COMSLFD | CALLINT | 1XD | PFDM | EQPDECK | 1MR | SMSG | COMKSCD | MPF | 32 |
| 33 | COMCCUA | COMDD7S | COMPRJC | COMSLFM | CPM | 1XM | PFDUMP | IPRDECK | MREC | CALPFU | COMKSTC | SMP | 33 |
| 34 | COMCCVI | COMDGJD | COMPRLA | COMSLSD | CVL | 1XY | PFHELPR | LIBDECK | MTE | GETMST | COMKTAF | WRM | 34 |
| 35 | COMCCVL | COMDSYS | COMPRLI | COMSMLS | DIO | 5ME | PFILES | RDFP | COMBFAS | SETQP | COMKTD | 1TS | 35 |
| 36 | COMCDCM | COMDTFN | COMPRLM | COMSMMF | DIS | 6DC | PFLIST | SUPERM | COMBBZF | EORSS2 | COMKTER | DDFILE | 36 |
| 37 | COMCDCP | COMFCID | COMPRLS | COMSMRT | DSD | 6DD | PFLOAD | VEMEM | COMBCDD | SSOVL | COMKTIF | DEMUX | 37 |
| 38 | COMCDTC | COMFVD2 | COMPRNS | COMSMSC | DSP | 6DE | PFS | ZTDAMT0 | COMBCHN | SSARG | COMKTIP | DMPCCC | 38 |
| 39 | COMCDXB | COMFVD3 | COMPRSI | COMSMSI | ELM | 6DI | PROFILE | ZTDCCLC | COMBCMD | EORSS3 | COMKTL | KEYUTIL | 39 |
| 40 | COMCECM | COMFXTI | COMPRSS | COMSMSP | FDL | 6DP | PURGALL | ZTDCCON | COMBCMS | SSEXEC | COMKTRF | LPT | 40 |
| 41 | COMCECS | COMFXVT | COMPSAF | COMSMST | IMS | 6DX | QDSPLAY | ZTDCERR | COMBCPR | EORSS4 | COMKTRN | MST | 41 |
| 42 | COMCEDT | COMFPAN | COMPSCA | COMSMTR | LFM | BATCHIO | QDUMP | ZTDCVRB | COMBFET | SSSLV | COMKTS | PACKER | 42 |
| 43 | COMCFCE | COMFTIO | COMPSDA | COMSMTX | MDD | BLANK | QFSP | ZTDNMT0 | COMBHFC | EORSS5 | COMKTSC | SCRSIM | 43 |
| 44 | COMCFLD | COMFVDT | COMPSDI | COMSNCD | MSM | CATALOG | QFTLIST | ZTDPCLP | COMBKDA | ACCCAT | COMKTST | STIMULA | 44 |
| 45 | COMCFQO | COMFVD1 | COMPSDN | COMSNET | MTR | CATLIST | QGET | ZTDPERR | COMBKDD | ACCMAP | COMKZFN | TST | 45 |
| 46 | COMCGMS | COMPAC | COMPSDR | COMSPDT | OSB | CHKPT | QLOAD | ZTDPFIL | COMBLBL | SSINIT | TAFPRC | DFSORT | 46 |
| 47 | COMCGTO | COMPACS | COMPSEI | COMSPFM | 026 | CLASS | QMOVE | ZTDPTBD | COMBLRQ | EORSS6 | CALLKTS | PSAMP | 47 |
| 48 | COMCHXB | COMPANS | COMPSES | COMSPFS | PFM | CLDT | QREC | ZTDPTBS | COMBMAP | SSALTER | KTSDMP | SECART | 48 |
| 49 | COMCIQP | COMPAPI | COMPSFB | COMSPFU | PFU | CODING | RECLAIM | ZTDTFIL | COMBMAT | EORSS7 | LIBTASK | MSGID | 49 |
| 50 | COMCJCR | COMPAST | COMPSFE | COMSPIM | PPR | CONFIG | REDO | ZTDTTAB | COMBMCT | SSBLD | TAFLOG | ABC | 50 |
| 51 | COMCLFM | COMPADB | COMPSFI | COMSPRD | QAC | CONTROL | RESEQ | ZTDVERB | COMBOVL | EORSS8 | TAF | CHD | 51 |
| 52 | COMCLOD | COMPADD | COMPSFN | COMSPRO | QAP | COPYB | RESEX | ZTDVMT0 | COMBPFP | SSDEBUG | TAFREC | DEBUG | 52 |
| 53 | COMCMSF | COMPCEA | COMPSIC | COMSQAC | QFM | COPYC | RESTART | ZTDVPTD | COMBPFS | EORSS9 | BAAML | CPD | 53 |
| 54 | COMCMTM | COMPCEP | COMPSMI | COMSQFS | REC | CPMEM | ROUTE | 5870JDL | COMBRCD | SSDEF | DMREC | ICPD | 54 |
| 55 | COMCMTP | COMPCHD | COMPSNT | COMSREM | RPV | CPUMLD | SCREX | EOR1 | COMBSIT | EORSS10 | TARL | ACPD | 55 |
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| COMCMVE | COMPCHI | COMPSOF | COMSRPV | SET | CPUMTR | SCTD | EOR2 | COMBSNS | SSLABEL | TMSG | PROBE |
| COMCOVL | COMPCHL | COMPSPA | COMSRSX | SFM | CPUPFM | SDSPLAY | EOR3 | COMBTDM | EORSS11 | AAMI | XEDIT |
| COMCPFM | COMPCHM | COMPSRA | COMSSCD | SFP | CUESHEL | SECHDR | EOR4 | COMBUCR | SSMOVE | AAML | XEDITH |
| COMCPFP | COMP CIB | COMPSRR | COMSSCP | SLL | CVLCP | SETCORE | EOR5 | COMBUDT | EORSS12 | BEGIN | 1DA |
| COMCPFS | COMPCLC | COMPSRU | COMSSCR | STL | DAYFILE | SFORM | EOR6 | COMXACM | SSUSE | BLDABH | 0CT |
| COMCPFU | COMPCKP | COMPSSE | COMSSFM | TLX | DFTERM | SFS | EOR7 | COMXBST | EORSS13 | CALLRTN | COMCCKD |
| COMCPOP | COMPCLD | COMPSSF | COMSSFS | VEJ | DOCUMENT | SHOW | EOR8 | COMXCCB | SSVAL | CALLTRN | COMCMBS |
| COMCQFM | COMPCLX | COMPSTA | COMSSRT | VER | DSDI | SHOWEX | EOR9 | COMXCTF | EORSS14 | CALLTSK | COMPTFM |
| COMCQFP | COMP CMA | COMPSTI | COMSSRU | XHC | EDIT | SMFSUBS | EOR10 | COMXEMC | EXDRVR | CEASE | COMSTFU |
| COMCRDA | COMP CMX | COMPSUD | COMSSSD | 0AU | ENQUIRE | SORT | COMFDS1 | COMXEXP | SXDEST | CHKON | TFM |
| COMCRDC | COMP COB | COMPSUT | COMSSSE | 0AV | FCOPY | STAGE | COMFDS2 | COMXFCQ | SXHLR | CMDUMP | TFU |
| COMCRDH | COMP CPE | COMPTGB | COMSSSJ | 0BF | FILES | SUBMIT | COMFFSE | COMXHLR | SXINIT | DSDUMP | TFILES |
| COMCRDO | COMP CRA | COMPTLB | COMSTCM | 0DF | FOTD | SUBSYST | COMFMLT | COMXINT | SXKD | EXTRACT | TFSP |
| COMCRDS | COMP CRS | COMPTMA | COMSTDR | 0DQ | GENPFD | SYMPCOD | COMFONL | COMXI PR | SXLLR | INTOT | LDISTAP |
| COMCRDW | COMP CSC | COMPUFT | COMSTFM | 0FA | GTR | SYSEDIT | COMFSGL | COMXJCA | SXMAIN | JOURNAL | GETTASV |
| COMCRSB | COMP CTE | COMPUPP | COMSTIO | 0PT | HELPLIB | TCOMND | COMFSMF | COMXLTC | SXSERV | LIMITS | SETTASV |
| COMCRSP | COMP CTI | COMPUPS | COMSTIR | 0QM | HOSTCPY | TDU | COMFTAB | COMX MFD | SXSTGE | LOGIN | TMSPROC |
| COMCRTN | COMP CUA | COMPVEI | COMSTRX | 0RF | HSTCOPY | TDU EX | COMFXCM | COMXMMF | SXSLV | MULTCB | TMSPROG |
| COMCSCB | COMP CUT | COMPVFC | COMSVED | 0RP | IAFEX | TDUFILE | COMFXED | COMXMSC | SXUCP | SEND | |
| COMCSFM | COMP CVI | COMPVFN | COMSVER | 0RT | IEDIT | TDUIN | COMFXFL | COMXOVL | SX3UCP | SETCHT | |

COMMON DECKS ON PROGRAM LIBRARY.

| | | | | | | | | | | | |
|---------|---------|---------|----------|----------|---------|---------|---------|----------|----------|----------|----------|
| COPYRT | COMCGTO | COMCSYS | COMPAST | COMPIFR | COMPSIC | COMSCVS | COMSRPV | COMUEST | COMFXED | COMXHLR | COMKBST |
| CPCOM | COMCHXB | COMCTIO | COMP CDB | COMPIMB | COMPSMI | COMSDFS | COMSRSX | COMUFMT | COMFXFL | COMXINT | COMK CBD |
| PPCOM | COMCIQP | COMCUPC | COMP CDD | COMP IOU | COMPSNT | COMSDFT | COMSSCD | COMUJCA | COMFXFO | COMXI PR | COMK CBT |
| COMCMAC | COMCJCR | COMCUSB | COMPCEA | COMP IRA | COMPSOF | COMSDSL | COMSSCP | COMUOUT | COMFXSB | COMXJCA | COMKCRM |
| COMCCMD | COMCLFM | COMCVDE | COMP CFP | COMPLDA | COMPSPA | COMSDSP | COMSSCR | COMUPRB | COMFXSC | COMXLTC | COMKDPB |
| COMABZF | COMCLOD | COMCVDT | COMP CHD | COMPLDB | COMPSRA | COMSDST | COMSSFM | COMUQPR | COMFXWK | COMX MFD | COMK FIO |
| COMAFET | COMCMSF | COMCVLC | COMP CHI | COMP MRA | COMPSRR | COMSEJT | COMSSFS | COMUQQC | COMCLNI | COMXMMF | COMKFLD |
| COMAMSS | COMCMTM | COMCVQF | COMP CHL | COMP MRM | COMPSRU | COMSESS | COMSSRT | COMLBAS | COMBFAS | COMXMSC | COMKI PR |
| COMAPFP | COMCMTP | COMCWOD | COMP CHM | COMP MRQ | COMPSSE | COMSEVT | COMSSRU | COMLESM | COMBBZF | COMXOVL | COMK KIM |
| COMAPFS | COMCMVE | COMCWTA | COMP CIB | COMP MSV | COMPSSF | COMSHIO | COMSSSD | COMLFLD | COMBCDD | COMXSEB | COMK NWC |
| COMCARG | COMCOVL | COMCWTC | COMP CLC | COMP NFL | COMPSTA | COMSIOQ | COMSSSE | COMLI PR | COMBCHN | COMTALT | COMK NWF |
| COMCARM | COMCPFM | COMCWTH | COMP CKP | COMP PDI | COMPSTI | COMSIOU | COMSSSJ | COMLSCD | COMBCMD | COMTBLD | COMKOPD |
| COMCBAN | COMCPFP | COMCWTO | COMP CLD | COMP PPR | COMPSUD | COMSJCE | COMSTCM | COMLUEM | COMBCMS | COMTBLP | COMKRRD |
| COMCBLP | COMCPFS | COMCWTS | COMP CLX | COMP RBB | COMPSUT | COMSJIO | COMSTDR | COMLVER | COMBCPR | COMTCTW | COMKSCD |
| COMCCCE | COMCPFU | COMCWTW | COMP CMA | COMP RCB | COMPTGB | COMSJRO | COMSTFM | ZTDAMT0 | COMBFET | COMTDBG | COMKSTC |
| COMCCDD | COMCPOP | COMCZAP | COMP CMX | COMP RCS | COMPTLB | COMSLFD | COMSTIO | ZTDCCLC | COMBHFC | COMTDBP | COMKTAF |
| COMCCFD | COMCQFM | COMCZTB | COMP COB | COMP REI | COMPTMA | COMSLFM | COMSTIR | ZTDCCON | COMBKDA | COMTDEF | COMKTDM |
| COMCCHD | COMCQFP | COMDMAC | COMP CPE | COMP REL | COMPUFT | COMSLSD | COMSTRX | ZTDCERR | COMBKDD | COMTDER | COMKTER |
| COMCCHG | COMCRDA | COMDDBS | COMP CRA | COMP RFI | COMPUPP | COMSMLS | COMSVED | ZTDCVRB | COMLBLBL | COMTDFP | COMKTIF |
| COMCCIO | COMCRDC | COMDDCM | COMP CRS | COMP RJC | COMPUPS | COMSMMF | COMSVER | ZTDNMT0 | COMBLRQ | COMTERR | COMKTIP |
| COMCCNS | COMCRDH | COMDDIS | COMP CSC | COMP RLA | COMPVEI | COMSMRT | COMSWEI | ZTDPCLP | COMBMAP | COMTFMT | COMKTLD |
| COMCCOD | COMCRDO | COMDDSP | COMP CTE | COMP RLI | COMPVFC | COMSMSC | COMSZOL | ZTDPERR | COMBMAT | COMTLAB | COMKTRF |
| COMCCPA | COMCRDS | COMDD7S | COMP CTI | COMP RLM | COMPVFN | COMSMSI | COMS0VU | ZTDPFIL | COMBMCT | COMTLBP | COMKTRN |
| COMCCPM | COMCRDW | COMDGJD | COMP CUA | COMP RLS | COMPVID | COMSMSP | COMS1DS | ZTDPTBD | COMBOVL | COMTMOV | COMKTSA |
| COMCCPT | COMCRSB | COMDSYS | COMP CUT | COMP RNS | COMPVLC | COMSMST | COMS1MV | ZTDPTBS | COMBPFP | COMTMVD | COMKTSC |
| COMCCUA | COMCRSP | COMDTFN | COMP CVI | COMP RSI | COMPVMS | COMSMTR | COMS1RM | ZTDTFIL | COMBPFS | COMTMVP | COMKTST |
| COMCCVI | COMCRTN | COMFCID | COMP C2D | COMP RSS | COMPVPA | COMSMTX | COMS176 | ZTDTTAB | COMBRCD | COMTOUT | COMKZFN |
| COMCCVL | COMCSCB | COMFVD2 | COMP DDT | COMP SAF | COMPVSP | COMSNCD | COMTBAN | ZTDVERB | COMBSIT | COMTSIT | COMCCDM |
| COMCDCM | COMCSFM | COMFVD3 | COMP DLI | COMP SCA | COMPWBB | COMSNET | COMTCVT | ZTDVMT0 | COMBSNS | COMTUSE | COMCCDP |
| COMCDCP | COMCSFN | COMFXTI | COMP DTS | COMP SDA | COMPWCB | COMSPDT | COMTDA8 | ZTDV PDT | COMBTDM | COMTUSP | COMSSTM |
| COMCDTC | COMCSKW | COMFXVT | COMP DVC | COMP SDI | COMPWEI | COMSPFM | COMTDP6 | COMFDS1 | COMBU CR | COMTVLD | COMCCKD |
| COMCDXB | COMCSNF | COMFPAN | COMP DV5 | COMP SDN | COMPWSS | COMSPFS | COMTDP9 | COMFDS2 | COMBUDT | COMTVLF | COMCMBS |
| COMCECM | COMCSNM | COMFTIO | COMP ECX | COMP SDR | COMPWVE | COMSPFU | COMTDSP | COMFFSE | COMXACM | COMTVLM | COMPTFM |
| COMCECS | COMCSOE | COMFVDT | COMP FAT | COMP SEI | COMSACC | COMSPIM | COMTNAP | COMFMLT | COMXBST | COMTVLP | COMSTFU |

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| COMCEDT | COMCSRI | COMFVD1 | COMPFLF | COMPSES | COMSATF | COMSPRD | COMTVDT | COMFONL | COMXCCB | COMTVLV |
| COMCFCE | COMCSRT | COMPAC | COMPGBN | COMPSFB | COMSBIO | COMSPRO | COMT6DP | COMFSGL | COMXCTF | COMTVLX |
| COMCFLD | COMCSSN | COMPACS | COMPGBP | COMPSFE | COMSCIO | COMSQAC | COMT8AD | COMFSMF | COMXEMC | COMKMAC |
| COMCFQO | COMCSST | COMPANS | COMPGTN | COMPSFI | COMSCPD | COMSQFS | COMT9DP | COMFTAB | COMXEXP | COMKARF |
| COMCGMS | COMCSTF | COMPAPI | COMPICT | COMPSFN | COMSCPS | COMSREM | COMUCPD | COMFXCM | COMXFCQ | COMKBRD |

DECKS WRITTEN ON COMPILE FILE.

1AJ

103100B STORAGE USED.

34463 LINES WRITTEN ON COMPILE FILE.

1AJ

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ADDRESS LENGTH BINARY CONTROL CARDS.

1100 2166 IDENT 1AJ,AJS ADVANCE JOB STATUS
3266 (346)

BLOCKS TYPE ADDRESS LENGTH
PROGRAM* ABSOLUTE 0 2241
LITERALS* ABSOLUTE 2241 32
OVERLAY ABSOLUTE 2273 773

ADDRESS LENGTH BINARY CONTROL CARDS.

2300 4452 IDENT 3AA,IJBX INITIATE JOB.
6752 (727)

BLOCKS TYPE ADDRESS LENGTH
PROGRAM* ABSOLUTE 0 5542
LITERALS* ABSOLUTE 5542 510
BUFFERS ABSOLUTE 6252 500
OVERFLOW ABSOLUTE 6752 0

ADDRESS LENGTH BINARY CONTROL CARDS.

2300 4232 IDENT 3AB,PEFX PROCESS ERROR FLAG.
6532 (672)

BLOCKS TYPE ADDRESS LENGTH
PROGRAM* ABSOLUTE 0 5442
LITERALS* ABSOLUTE 5442 411
BUFFERS ABSOLUTE 6053 457
OVERFLOW ABSOLUTE 6532 0

ADDRESS LENGTH BINARY CONTROL CARDS.

6060 1516 IDENT 3AL,ENTX ERROR PROCESSING EXTENSION.
7576 (253)

BLOCKS TYPE ADDRESS LENGTH
PROGRAM* ABSOLUTE 0 7262

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| | | | |
|-----------|----------|------|-----|
| LITERALS* | ABSOLUTE | 7262 | 314 |
| BUFFERS | ABSOLUTE | 7576 | 0 |
| OVERFLOW | ABSOLUTE | 7576 | 0 |

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| 1 | | | | | | 1 |
| 2 | | | | | | 2 |
| 3 | | | | | | 3 |
| 4 | | | | | | 4 |
| 5 | ADDRESS | LENGTH | BINARY CONTROL CARDS. | | | 5 |
| 6 | | | | | | 6 |
| 7 | 6060 | 654 | IDENT | 3AN,ENTX | CHECK ERROR RETURN | 7 |
| 8 | 6734 | (127) | | | | 8 |
| 9 | | | | | | 9 |
| 10 | | | | | | 10 |
| 11 | | | BLOCKS | TYPE | ADDRESS | LENGTH |
| 12 | | | | | | 12 |
| 13 | | | PROGRAM* | ABSOLUTE | 0 | 6454 |
| 14 | | | LITERALS* | ABSOLUTE | 6454 | 260 |
| 15 | | | BUFFERS | ABSOLUTE | 6734 | 0 |
| 16 | | | OVERFLOW | ABSOLUTE | 6734 | 0 |
| 17 | | | | | | 17 |
| 18 | | | | | | 18 |
| 19 | | | | | | 19 |
| 20 | | | | | | 20 |
| 21 | ADDRESS | LENGTH | BINARY CONTROL CARDS. | | | 21 |
| 22 | | | | | | 22 |
| 23 | 1100 | 6464 | IDENT | TCS,TCSX | TRANSLATE COMMAND. | 23 |
| 24 | 7564 | (1245) | | | | 24 |
| 25 | | | | | | 25 |
| 26 | | | | | | 26 |
| 27 | | | BLOCKS | TYPE | ADDRESS | LENGTH |
| 28 | | | | | | 28 |
| 29 | | | PROGRAM* | ABSOLUTE | 0 | 4320 |
| 30 | | | LITERALS* | ABSOLUTE | 4320 | 14 |
| 31 | | | BUFFERS | ABSOLUTE | 4334 | 3230 |
| 32 | | | OVERFLOW | ABSOLUTE | 7564 | 0 |
| 33 | | | | | | 33 |
| 34 | | | | | | 34 |
| 35 | | | | | | 35 |
| 36 | | | | | | 36 |
| 37 | ADDRESS | LENGTH | BINARY CONTROL CARDS. | | | 37 |
| 38 | | | | | | 38 |
| 39 | 4550 | 136 | IDENT | 3AC,SPLX | SEARCH PERIPHERAL LIBRARY. | 39 |
| 40 | 4706 | (24) | | | | 40 |
| 41 | | | | | | 41 |
| 42 | | | | | | 42 |
| 43 | | | | | | 43 |
| 44 | | | | | | 44 |
| 45 | ADDRESS | LENGTH | BINARY CONTROL CARDS. | | | 45 |
| 46 | | | | | | 46 |
| 47 | 1100 | 525 | IDENT | LDR,LDR | LOAD CENTRAL PROGRAM. | 47 |
| 48 | 1625 | (106) | | | | 48 |
| 49 | | | | | | 49 |
| 50 | | | | | | 50 |
| 51 | | | BLOCKS | TYPE | ADDRESS | LENGTH |
| 52 | | | | | | 52 |
| 53 | | | PROGRAM* | ABSOLUTE | 0 | 1607 |
| 54 | | | LITERALS* | ABSOLUTE | 1607 | 16 |
| 55 | | | | | | 55 |
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MESSAGES ABSOLUTE 1625 0

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| 1 | | | | | | 1 |
| 2 | | | | | | 2 |
| 3 | ADDRESS | LENGTH | BINARY CONTROL CARDS. | | | 3 |
| 4 | | | | | | 4 |
| 5 | 1632 | 1156 | IDENT | 3AD,SFOX | SEARCH FOR OVERLAY. | 5 |
| 6 | 3010 | (176) | | | | 6 |
| 7 | | | | | | 7 |
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| 18 | ADDRESS | LENGTH | BINARY CONTROL CARDS. | | | 18 |
| 19 | | | | | | 19 |
| 20 | 4550 | 2576 | IDENT | 3AE,LCRX | LOAD COPY ROUTINES. | 20 |
| 21 | 7346 | (433) | | | | 21 |
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| 32 | ADDRESS | LENGTH | BINARY CONTROL CARDS. | | | 32 |
| 33 | | | | | | 33 |
| 34 | 5037 | 1527 | IDENT | 3AF,SEPX | SPECIAL ENTRY POINT PROCESSING. | 34 |
| 35 | 6566 | (254) | | | | 35 |
| 36 | | | | | | 36 |
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| 46 | ADDRESS | LENGTH | BINARY CONTROL CARDS. | | | 46 |
| 47 | | | | | | 47 |
| 48 | 2300 | 150 | IDENT | 3AG,RJFX | RETURN JOB STEP FILES. | 48 |
| 49 | 2450 | (26) | | | | 49 |
| 50 | | | | | | 50 |
| 51 | | | | | | 51 |
| 52 | | | | | | 52 |
| 53 | | | | | | 53 |
| 54 | ADDRESS | LENGTH | BINARY CONTROL CARDS. | | | 54 |
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1412THE

5037 151
5210 (26)

IDENT 3AH,PCLX *CLB=* ENTRY POINT PROCESSING.

ADDRESS LENGTH BINARY CONTROL CARDS.

4550 1051
5621 (160)

IDENT 3AI,SGDX SEARCH GLOBAL LIBRARY DIRECTORY.

ADDRESS LENGTH BINARY CONTROL CARDS.

2300 2345
4645 (374)

IDENT 3AJ,IJTX INITIATE JOB TERMINATION.

BLOCKS TYPE ADDRESS LENGTH

PROGRAM* ABSOLUTE 0 4237
LITERALS* ABSOLUTE 4237 154
OVERLAY ABSOLUTE 4413 232
OVERFLOW ABSOLUTE 4645 0

ADDRESS LENGTH BINARY CONTROL CARDS.

2300 2213
4513 (352)

IDENT 3AK,CJTX COMPLETE JOB TERMINATION.

BLOCKS TYPE ADDRESS LENGTH

PROGRAM* ABSOLUTE 0 4042
LITERALS* ABSOLUTE 4042 34
OVERLAY ABSOLUTE 4076 415
OVERFLOW ABSOLUTE 4513 0

ADDRESS LENGTH BINARY CONTROL CARDS.

1273 767
2262 (146)

IDENT 3AM,ERRX TCS ERROR PROCESSOR.
END

BLOCKS TYPE ADDRESS LENGTH

PROGRAM* ABSOLUTE 0 2262
OVERFLOW ABSOLUTE 2262 0

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| IDENT | 1AJ,AJS | ADVANCE JOB STATUS | 1AJ | 1 |
|--------|---------|---|---------|---|
| PERIPH | | | 1AJ | 2 |
| D_M | BASE | MIXED | 1AJ | 3 |
| | SST | | 1AJ | 4 |
| 1 | 1 | QUAL\$ | 1AJ | 5 |
| 2 | | COMMENT | 1AJ | 6 |
| 3 | | 82/02/26. 95/06/23. 1AJ - ADVANCE JOB STATUS. | 1AJ | 6 |
| 4 | | COMMENT | 281L803 | 1 |
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***      FUNCTION CODE 0 - *CPUMTR* CALL.                1AJ      47
*                                               1AJ      48
*T      18/*1AJ*, 1/, 5/CP, 12/0, 12/R, 12/N           1AJ      49
*                                               1AJ      50
*          R = 1      SET BY *1AJ* DURING *DMP=* PROCESSING  1AJ      51
*          IN CASE OF RECALL.                            1AJ      52
*          N = 1      SET BY *1R0* UPON COMPLETION OF *DMP=*  1AJ      53
*          PROCESSING.                                    1AJ      54
*          N = 2      SET BY *DIS* FOR *SSJ=* AND *DMP=*     1AJ      55
*          PROCESSING.                                    1AJ      56

***      FUNCTION CODE 1 - JOB SCHEDULER CALL.           1AJ      58
*                                               1AJ      59
*T      18/*1AJ*, 1/, 5/CP, 12/1, 12/0, 12/J0         1AJ      60
*                                               1AJ      61
*          J0      JOB EJT ORDINAL.                       1AJ      62

***      FUNCTION CODE 2 - *DIS* OR OTHER PP CALL.       1AJ      64
*                                               1AJ      65
*T      12/*1AJ*, 1/, 5/CP, 12/2, 12/0, 12/DC         1AJ      66
*                                               1AJ      67
*          DC BIT 0  INDICATES READ COMMAND                V23L617   3
*          AND STOP PRIOR TO EXECUTION (*RSS*            1AJ      69
*          INDICATOR).                                    1AJ      70
*                                               1AJ      71
*          BIT 1    INDICATES RETURN ERROR MESSAGE TO     1AJ      72
*          *MS2W* WITH NO ERROR FLAG IF INCORRECT        V23L617   4
*          COMMAND.                                       V23L617   5
*                                               1AJ      75
*          BIT 2    INDICATES TAKE COMMAND                V23L617   6
*          FROM *MS1W* OF CONTROL POINT AREA.            1AJ      77

***      FUNCTION CODE 3 - FROM OTHER PPU PROGRAMS.     1AJ      79
*                                               1AJ      80
*T      18/*1AJ*, 1/, 5/CP, 12/3, 12/0, 12/0         1AJ      81

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| *** | FUNCTION CODE 4 - COMMAND FETCH. | V23L617 | 7 |
| * | | 1AJ | 84 |
| *T | 18/*TCS*, 1/, 5/CP, 12/4, 6/SF, 18/ADDR | 1AJ | 85 |
| * | | 1AJ | 86 |
| * | SF = SUBFUNCTION NUMBER FOR READING CONTROL | 1AJ | 87 |
| * | COMMAND: | V23L617 | 8 |
| * | = 0 ADVANCE POINTERS. | 1AJ | 89 |
| * | = 1 READ ONLY IF NOT A LOCAL FILE LOAD, | 1AJ | 90 |
| * | DO NOT ADVANCE POINTERS. | 1AJ | 91 |
| * | = 2 SET BIT 17 IN ARGUMENT COUNT IF | 1AJ | 92 |
| * | LOCAL FILE LOAD, DO NOT ADVANCE POINTERS. | 1AJ | 93 |
| * | = 4+ IF PARAMETERS ARE TO BE CRACKED IN | 1AJ | 94 |
| * | *SCOPE* FORMAT. | 1AJ | 95 |
| * | ADDR = ADDRESS TO READ/WRITE CONTROL | 1AJ | 96 |
| * | COMMAND FROM/TO. | V23L617 | 9 |

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|-----|---|---------|-----|
| *** | FUNCTION CODE 5 - COMMAND READ AND EXECUTE. | V23L617 | 10 |
| * | | 1AJ | 100 |
| *T | 18/*TCS*, 1/, 5/CP, 12/5, 6/, 18/ADDR | 1AJ | 101 |
| * | | 1AJ | 102 |
| * | ADDR = ADDRESS WITHIN USER FL FROM WHICH TO | 1AJ | 103 |
| * | READ COMMAND. | V23L617 | 11 |

| | | | |
|-----|--|-----|-----|
| *** | DAYFILE MESSAGES. | 1AJ | 106 |
| * | | 1AJ | 107 |
| * | * SECURE MEMORY, DUMP DISABLED.* = ATTEMPT TO DUMP | 1AJ | 108 |
| * | SECURE MEMORY. | 1AJ | 109 |
| * | | 1AJ | 110 |
| * | * SPCW CALL ERROR.* = A *DMP=* TYPE CALL WAS MADE AND THE | 1AJ | 111 |
| * | PROGRAM CALLED IS EITHER NOT IN THE CLD OR DOES NOT HAVE A | 1AJ | 112 |
| * | *DMP=* ENTRY POINT DEFINED. | 1AJ | 113 |

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|----|---|-----|-----|
| ** | PROGRAMS CALLED. | 1AJ | 115 |
| * | | 1AJ | 116 |
| * | *1RI* - *DMP=* ROLLIN. | 1AJ | 117 |
| * | *1RO* - ROLLOUT JOB, NORMAL ROLLOUT AND *DMP=* ROLLOUT. | 1AJ | 118 |
| * | *CIO* - COMPLETE SPECIAL FILES ON ERRORS. | 1AJ | 119 |

** ROUTINES USED.
*
* *0ST* - TERMINATE SCP CONNECTIONS.

1AJ 121
1AJ 122
1AJ 123

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** PRESET QUALIFICATION BLOCK ORDER.

| | | | | |
|--|--|--|---------|-----|
| | | | 1AJ | 126 |
| | | | 1AJ | 127 |
| | | | 1AJ | 128 |
| | | | 1AJ | 129 |
| | | | 1AJ | 130 |
| | | | 1AJ | 131 |
| | | | NS21000 | 1 |
| | | | 1AJ | 132 |
| | | | 1AJ | 133 |
| | | | 1AJ | 134 |
| | | | 1AJ | 135 |
| | | | 1AJ | 136 |
| | | | 1AJ | 137 |
| | | | 1AJ | 138 |
| | | | 1AJ | 139 |
| | | | 1AJ | 140 |
| | | | NS2031 | 1 |
| | | | 1AJ | 141 |
| | | | 1AJ | 142 |
| | | | 1AJ | 143 |
| | | | 1AJ | 144 |

** DEFINE SYSTEM COMMUNICATIONS SYMBOLS.

| | | | | |
|--|--|--------------------------------------|-----|-----|
| | | | 1AJ | 146 |
| | | | 1AJ | 147 |
| | | | 1AJ | 148 |
| | | SYSCOM | 1AJ | 149 |
| | | DEFINE SYSTEM COMMUNICATIONS SYMBOLS | | |

** DEFINITION COMMON DECKS.

| | | | | |
|----|-------|---|-----------|-----|
| | | | 1AJ | 151 |
| | | | 1AJ | 152 |
| | | | 1AJ | 153 |
| 0 | CTEXT | COMPMAC - PP SYSTEM MACROS. | COMPMAC | 1 |
| 0 | CTEXT | COMSACC - USER FILE EQUIVALENCES. | COMSACC | 1 |
| 0 | CTEXT | COMSCPS - CPUMTR SUBFUNCTION CODES. | COMSCPS | 1 |
| 0 | CTEXT | COMSDSP - DSP EQUIVALENCES. | COMSDSP | 1 |
| 0 | CTEXT | COMSEJT - EXECUTING JOB DEFINITIONS. | COMSEJT | 1 |
| 0 | CTEXT | COMSEVT - EVENT DESCRIPTORS. | COMSEVT | 1 |
| 46 | CTEXT | COMSJCE - JOB CONTROL EQUIVALENCES. | COMSJCE | 1 |
| 46 | CTEXT | COMSJIO - QFT EQUIVALENCES. | COMSJIO | 1 |
| 46 | CTEXT | COMSJRO - JOB ROLLOUT EQUIVALENCES. | COMSJRO | 1 |
| 46 | CTEXT | COMSLFD - LOCAL FILE DEFINITIONS. | COMSLFD | 1 |
| 46 | CTEXT | COMSMSC - MISCELLANEOUS SYSTEM CONSTANTS. | COMSMSC | 1 |
| 46 | CTEXT | COMSMSP - MASS STORAGE PROCESSING EQUIVALENCES. | COMSMSP | 1 |
| 46 | CTEXT | COMSPIM - PP INSTRUCTION MNEMONICS. | COMSPIM | 1 |
| 46 | CTEXT | COMSPRD - PRIORITY DEFINITIONS. | COMSPRD | 1 |
| | QUAL | PFM | 1AJ | 167 |
| | | | # COMSPFM | 1 |
| 46 | CTEXT | COMSPFM - PERMANENT FILE EQUIVALENCES. | COMSPFM | 2 |
| | QUAL | * | 1AJ | 169 |
| | QUAL | REM | 1AJ | 170 |
| 46 | CTEXT | COMSREM - INTERACTIVE SUBSYSTEM PARAMETERS. | COMSREM | 1 |
| 46 | ORG | SETLOC | NS21000 | 77 |

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| | QUAL | * | | 1AJ | 172 |
|----|-------|---------|--------------------------------------|---------|-----|
| 46 | CTEXT | COMSRPV | - EXTENDED REPRIEVE EQUIVALENCES. | COMSRPV | 1 |
| 46 | CTEXT | COMSSCD | - SERVICE CLASS DEFINITIONS. | COMSSCD | 1 |
| | LIST | G | | COMSSCD | 119 |
| | LIST | * | | COMSSCD | 166 |
| 46 | CTEXT | COMSSCP | - SYSTEM CONTROL POINT EQUIVALENCES. | COMSSCP | 1 |
| | QUAL | SCR | | 272L774 | 1 |
| 46 | CTEXT | COMSSCR | - S/C REGISTER EQUIVALENCES. | COMSSCR | 1 |
| | QUAL | * | | 272L774 | 2 |
| 46 | CTEXT | COMSSRT | - SYMBOLS FOR RECORD TYPES. | COMSSRT | 1 |
| 46 | CTEXT | COMSSRU | - DEFINE SRU PARAMETERS. | COMSSRU | 1 |
| 46 | CTEXT | COMSSSD | - SUBSYSTEM DEFINITIONS. | COMSSSD | 1 |
| 46 | CTEXT | COMSSSE | - SYSTEM SECTOR EQUIVALENCES. | COMSSSE | 1 |
| 46 | CTEXT | COMSSSJ | - SPECIAL SYSTEM JOB PARAMETERS. | COMSSSJ | 1 |
| 46 | CTEXT | COMSZOL | - ZERO LEVEL OVERLAY LENGTHS. | COMSZOL | 1 |

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|----|-------|--|---------|-----|----|
| 1 | ** | JMP - THREADED JUMP. | 1AJ | 182 | 1 |
| 2 | * | | 1AJ | 183 | 2 |
| 3 | * | JMP ADDR | 1AJ | 184 | 3 |
| 4 | * | | 1AJ | 185 | 4 |
| 5 | * | ENTRY *ADDR* = JUMP DESTINATION ADDRESS. | 1AJ | 186 | 5 |
| 6 | * | | 1AJ | 187 | 6 |
| 7 | * | NOTE THIS MACRO WILL THREAD BACKWARDS ONLY. | 1AJ | 188 | 7 |
| 8 | | | 1AJ | 189 | 8 |
| 9 | | | 1AJ | 190 | 9 |
| 10 | JMP | MACRO ADDR | 1AJ | 191 | 10 |
| 11 | | NOREF .ADDR | 1AJ | 192 | 11 |
| 12 | .A | IF -DEF, .ADDR | 1AJ | 193 | 12 |
| 13 | .ADDR | MAX ADDR, *-40 | 1AJ | 194 | 13 |
| 14 | .A | ENDIF | 1AJ | 195 | 14 |
| 15 | .B | IFGT .ADDR, *-40 | 1AJ | 196 | 15 |
| 16 | | UJN .ADDR ASSEMBLE SHORT JUMP | 1AJ | 197 | 16 |
| 17 | .ADDR | SET *-1 | 1AJ | 198 | 17 |
| 18 | .B | ELSE | 1AJ | 199 | 18 |
| 19 | .ADDR | SET * | 1AJ | 200 | 19 |
| 20 | | LJM ADDR ASSEMBLE LONG JUMP | 1AJ | 201 | 20 |
| 21 | .B | ENDIF | 1AJ | 202 | 21 |
| 22 | JMP | ENDM | 1AJ | 203 | 22 |
| 23 | | | | | 23 |
| 24 | ** | LDA - LOAD ABSOLUTE CM ADDRESS. | 1AJ | 205 | 24 |
| 25 | * | | 1AJ | 206 | 25 |
| 26 | * | LDA X,M | 1AJ | 207 | 26 |
| 27 | * | | 1AJ | 208 | 27 |
| 28 | * | ENTRY *X* = FIRST OF TWO DIRECT CELLS CONTAINING | 1AJ | 209 | 28 |
| 29 | * | RELATIVE CM ADDRESS. | 1AJ | 210 | 29 |
| 30 | * | *M* = (OPTIONAL) IF NON-BLANK, MASK (X) WITH | 1AJ | 211 | 30 |
| 31 | * | 5-BIT MASK. | 1AJ | 212 | 31 |
| 32 | * | | 1AJ | 213 | 32 |
| 33 | * | EXIT (A) = ABSOLUTE CM ADDRESS. | 1AJ | 214 | 33 |
| 34 | | | 1AJ | 215 | 34 |
| 35 | | | 1AJ | 216 | 35 |
| 36 | | PURGMAC LDA | NS21000 | 2 | 36 |
| 37 | | | NS21000 | 3 | 37 |
| 38 | LDA | MACRO X,M | 1AJ | 217 | 38 |
| 39 | | LDD X | 1AJ | 218 | 39 |
| 40 | | IFC NE, \$\$\$, 1 | 1AJ | 219 | 40 |
| 41 | | LPN 37 | 1AJ | 220 | 41 |
| 42 | | SHN 6 | 1AJ | 221 | 42 |
| 43 | | ADD RA | 1AJ | 222 | 43 |
| 44 | | SHN 6 | 1AJ | 223 | 44 |
| 45 | | ADD X+1 | 1AJ | 224 | 45 |
| 46 | | ENDM | 1AJ | 225 | 46 |
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| 1 | ** | PROQF - PROCESS QUEUED FUNCTIONS. | | | 253L688 | 3 |
| 2 | * | | | | 253L688 | 4 |
| 3 | * | PROQF NFL | | | 253L688 | 5 |
| 4 | * | | | | 253L688 | 6 |
| 5 | * | ENTRY *NFL* = LOCATION CONTAINING ZERO IF NO NFL ASSIGNED. | | | 253L688 | 7 |
| 6 | * | | | | 253L688 | 8 |
| 7 | * | EXIT (A) = 0. | | | 253L688 | 9 |
| 8 | * | (AB) = NUMBER OF FUNCTIONS STILL QUEUED. | | | 253L688 | 10 |
| 9 | * | | | | 253L688 | 11 |
| 10 | * | USES AB, AB+1, CM - CM+4. | | | 253L688 | 12 |
| 11 | * | | | | 253L688 | 13 |
| 12 | * | CALLS FTN. | | | 253L688 | 14 |
| 13 | * | | | | 253L688 | 15 |
| 14 | * | MACROS NFA. | | | 253L688 | 16 |
| 15 | | | | | 253L688 | 17 |
| 16 | | PURGMAC PROQF | | | 253L688 | 18 |
| 17 | | | | | 253L688 | 19 |
| 18 | | | | | 253L688 | 20 |
| 19 | | PROQF MACRO NFL | | | 253L688 | 21 |
| 20 | | PQF2 AOD AB | INCREMENT COUNT OF FUNCTIONS STILL QUEUED | | 253L688 | 22 |
| 21 | | PQF3 AOD AB+1 | | | 253L688 | 23 |
| 22 | | SBN QFBL | | | NS2620 | 1 |
| 23 | | MJN PQF1 | IF MORE ENTRIES TO CHECK | | 253L688 | 25 |
| 24 | | | | | 253L688 | 26 |
| 25 | | PQF SUBR | ENTRY/EXIT | | 253L688 | 27 |
| 26 | | PQF EQU *-1 | | | 253L688 | 28 |
| 27 | | LDD NFL | | | 253L688 | 29 |
| 28 | | STD AB | PRESET REPLY | | 253L688 | 30 |
| 29 | | ZJN PQFX | IF NO NEGATIVE FL ASSIGNED | | 253L688 | 31 |
| 30 | | LDN 0 | | | 253L688 | 32 |
| 31 | | STD AB | | | 253L688 | 33 |
| 32 | | STD AB+1 | | | 253L688 | 34 |
| 33 | | PQF1 NFA QFBN | CHECK FOR QUEUED FUNCTION | | 253L688 | 35 |
| 34 | | ADD AB+1 | | | 253L688 | 36 |
| 35 | | CRD CM | | | 253L688 | 37 |
| 36 | | LDD CM+1 | GET EST ORDINAL | | 253L688 | 38 |
| 37 | | ZJN PQF3 | IF NO FUNCTION | | 253L688 | 39 |
| 38 | | LPC -1000 | | | 253L688 | 40 |
| 39 | | LMD TH | | | 253L688 | 41 |
| 40 | | STD CM+1 | SET RETURN-ON-INACCESSIBLE | | 253L688 | 42 |
| 41 | | LDD CM | | | 253L688 | 43 |
| 42 | | RJM FTN | ISSUE FUNCTION | | 253L688 | 44 |
| 43 | | LDD CM+1 | | | 253L688 | 45 |
| 44 | | NJN PQF2 | IF DEVICE INACCESSIBLE | | 253L688 | 46 |
| 45 | | LDN ZERL | CLEAR QUEUE ENTRY | | 253L688 | 47 |
| 46 | | CRD CM | | | 253L688 | 48 |
| 47 | | NFA QFBN | | | 253L688 | 49 |
| 48 | | ADD AB+1 | | | 253L688 | 50 |
| 49 | | CWD CM | | | 253L688 | 51 |
| 50 | | LJM PQF3 | CHECK NEXT ENTRY | | 253L688 | 52 |
| 51 | | PROQF ENDM | | | 253L688 | 53 |

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|----|---------|--|---------|----|----|
| 1 | ** | SUBSYST - GENERATE SUBSYSTEM TABLE. | V22L602 | 2 | 1 |
| 2 | * | | V22L602 | 3 | 2 |
| 3 | * | SUBSYST NAME, ID, PR, PP, AUTO, DEF, DCP, CP, PROC, ABT, CPU | 271L750 | 1 | 3 |
| 4 | * | | V22L602 | 5 | 4 |
| 5 | * | ENTRY *PP* = NAME OF PP PROGRAM TO INITIATE SUBSYSTEM. | V22L602 | 6 | 5 |
| 6 | * | | V22L602 | 7 | 6 |
| 7 | * | GENERATE TABLE OF PP NAMES FOR PP-INITIATED SUBSYSTEMS. | V22L602 | 8 | 7 |
| 8 | | | V22L602 | 9 | 8 |
| 9 | | PURGMAC SUBSYST | V22L602 | 11 | 9 |
| 10 | | | V22L602 | 12 | 10 |
| 11 | | SUBSYST MACRO NM, ID, PT, PP, AU, DF, DC, CP, PR, AB, CPU | 271L750 | 2 | 11 |
| 12 | | LOCAL C | 271L750 | 3 | 12 |
| 13 | .SUB | RMT | V22L602 | 14 | 13 |
| 14 | C | SET 0 | 271L750 | 4 | 14 |
| 15 | | IFC NE, \$CPU\$\$, 1 | 271L750 | 5 | 15 |
| 16 | C | SET 1 | 271L750 | 6 | 16 |
| 17 | .A | IFC NE, \$PP\$\$ | V22L602 | 15 | 17 |
| 18 | PPMIC1 | MICRO 1, 2, \$PP\$ | V22L602 | 16 | 18 |
| 19 | PPMIC2 | MICRO 3, 3, \$PP\$ | V22L602 | 17 | 19 |
| 20 | | INDEX (2*MXSI-2*ID), (2L"PPMIC1", 1L"PPMIC2"+C) | 271L750 | 7 | 20 |
| 21 | .A | ELSE | V22L602 | 19 | 21 |
| 22 | | INDEX (2*MXSI-2*ID), (0, C) | 271L750 | 8 | 22 |
| 23 | .A | ENDIF | V22L602 | 21 | 23 |
| 24 | .SUB | RMT | V22L602 | 22 | 24 |
| 25 | SUBSYST | ENDM | V22L602 | 23 | 25 |
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**** COMMON DIRECT LOCATION ASSIGNMENTS.

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|----|----|------|-----|---------|--------------------------------------|---------|-----|
| 1 | 16 | T8 | EQU | 16 | SCRATCH | 1AJ | 227 |
| 2 | 17 | T9 | EQU | 17 | SCRATCH | 1AJ | 228 |
| 3 | 20 | FS | EQU | 20 - 24 | FST INFORMATION (5 LOCATIONS) | 1AJ | 229 |
| 4 | 25 | CN | EQU | 25 - 31 | CM WORD BUFFER (5 LOCATIONS) | NS2358 | 230 |
| 5 | 32 | AB | EQU | 32 - 36 | ASSEMBLY BUFFER (5 LOCATIONS) | NS2358 | 231 |
| 6 | 37 | EP | EQU | 37 | ENTRY POINT POINTER | NS2358 | 1 |
| 7 | 40 | SP | EQU | 40 - 44 | COMMAND POINTER | 1AJ | 235 |
| 8 | 45 | JO | EQU | 45 | JOB EJT ORDINAL | V23L617 | 13 |
| 9 | 46 | EF | EQU | 46 | ERROR FLAG | 1AJ | 237 |
| 10 | 47 | RO | EQU | 47 | ROLLOUT FLAG | 1AJ | 238 |
| 11 | 57 | FA | EQU | 57 | ADDRESS OF FNT ENTRY | 1AJ | 239 |
| 12 | 60 | CW | EQU | 60 - 64 | LIBRARY CONTROL WORD | 1AJ | 240 |
| 13 | 65 | RF | EQU | 65 | REPRIEVE ERROR FLAG | 1AJ | 241 |
| 14 | | | | | = 0 IF NO REPRIEVE. | 1AJ | 242 |
| 15 | | | | | = MASK BITS IF EXTENDED REPRIEVE. | 1AJ | 243 |
| 16 | | | | | = ERROR OPTIONS IF REGULAR REPRIEVE. | 1AJ | 244 |
| 17 | 67 | SC | EQU | 67 | SCP ACTIVITY FLAG BITS (*0ST*) | 1AJ | 245 |
| 18 | | **** | | | | 1AJ | 246 |
| 19 | | | | | | 1AJ | 247 |

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| | ** | AJS - MAIN PROGRAM. | | | | | 1AJ | 258 |
| | * | | | | | | 1AJ | 259 |
| | * | ENTRY (IR+2) = FUNCTION CODE. | | | | | 1AJ | 260 |
| 1 | * | | | | | | 1AJ | 261 |
| 2 | * | EXIT TO FUNCTION CODE PROCESSOR. | | | | | 1AJ | 262 |
| 3 | * | | | | | | 1AJ | 263 |
| 4 | * | USES T9. | | | | | 1AJ | 264 |
| 5 | * | | | | | | 1AJ | 265 |
| 6 | * | CALLS PRS. | | | | | 1AJ | 266 |
| 7 | | | | | | | 1AJ | 267 |
| 8 | | | | | | | 1AJ | 268 |
| 9 | 1100 | | ORG | PPFW | | 1AJ | 269 | |
| 10 | | | | | | | 1AJ | 270 |
| 11 | 1100 | | AJS | BSS | 0 | ENTRY | 1AJ | 271 |
| 12 | 1100 | 0200 2274 | | RJM | PRS | PRESET PROGRAM | 1AJ | 272 |
| 13 | | | | | | | 1AJ | 273 |
| 14 | * | EXECUTE FUNCTION CODE PROCESSOR. | | | | | 1AJ | 274 |
| 15 | | | | | | | 1AJ | 275 |
| 16 | 1102 | 3417 | | STD | T9 | SET PROCESSOR ADDRESS | 1AJ | 276 |
| 17 | 1103 | 0117 0000 | | LJM | 0,T9 | ENTER FUNCTION CODE PROCESSOR | 1AJ | 277 |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | ** | AJS - GLOBAL DATA STORAGE. | | | | | 1AJ | 279 |
| 23 | | | | | | | 1AJ | 280 |
| 24 | | | | | | | 1AJ | 281 |
| 25 | 1105 | 0000 | JBSC | CON | 0 | JOB SERVICE CLASS | 1AJ | 282 |
| 26 | 1106 | 0000 | JBOT | CON | 0 | JOB ORIGIN TYPE | 1AJ | 283 |
| 27 | 1107 | 0000 | JBCS | CON | 0 | JOB CONNECTION STATUS | 1AJ | 284 |
| 28 | 1110 | 0000 | JTOP | CON | 0 | JOB TERMINATION OPTION | 1AJ | 285 |
| 29 | 1111 | 0000 | JTFG | CON | 0 | JOB TERMINATION FLAGS | 242L642 | 1 |
| 30 | 1112 | 0000 | PRCF | CON | 0 | PROLOGUE/EPILOGUE CONTROL FLAG | 261L700 | 1 |
| 31 | 1113 | 0000 | SCAF | CON | 0 | SCP ACTIVITY FLAGS: | 1AJ | 287 |
| 32 | | BIT 0 = UCP WITH CONNECTION TO AN SCP. | | | | | 1AJ | 288 |
| 33 | | BIT 1 = SCP WITH CONNECTION TO UCP(S). | | | | | 1AJ | 289 |
| 34 | | BIT 3 = *SSIW* IDENTIFICATION MUST | | | | | 1AJ | 290 |
| 35 | | BE CLEARED. | | | | | 1AJ | 291 |
| 36 | 1114 | 0000 | TSAF | CON | 0 | *IAF* CP NUMBER/ACCESSIBILITY FLAG | NS2433B | 1 |
| 37 | | | | | | | | |
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| 1 | | ** | MTR - MONITOR CALL (FUNCTION CODE 0). | | | 1AJ | 294 |
| 2 | | * | | | | 1AJ | 295 |
| 3 | | * | EXIT TO *CSR*. | | | 1AJ | 296 |
| 4 | | | | | | 1AJ | 297 |
| 5 | | | | | | 1AJ | 298 |
| 6 | | * | MTR LJM CSR | CHECK FOR SPECIAL SYSTEM REQUEST | | 1AJ | 299 |
| 7 | | | | | | | |
| 8 | | ** | SCH - SCHEDULER CALL (FUNCTION CODE 1). | | | 1AJ | 301 |
| 9 | | * | | | | 1AJ | 302 |
| 10 | | * | EXIT TO EXIT PROCESSOR DEFINED BY (A) ON RETURN | | | 1AJ | 303 |
| 11 | | * | FROM OVERLAY *3AA*. | | | 1AJ | 304 |
| 12 | | * | | | | 1AJ | 305 |
| 13 | | * | USES T9. | | | 1AJ | 306 |
| 14 | | * | | | | 1AJ | 307 |
| 15 | | * | CALLS *3AA*. | | | 1AJ | 308 |
| 16 | | * | | | | 1AJ | 309 |
| 17 | | * | MACROS EXECUTE. | | | 1AJ | 310 |
| 18 | | | | | | 1AJ | 311 |
| 19 | | | | | | 1AJ | 312 |
| 20 | 1115 | | SCH | BSS 0 | ENTRY | 1AJ | 313 |
| 21 | 1115 | 2036 0101 | | EXECUTE 3AA | EXECUTE BEGIN-JOB PROCESSOR | 1AJ | 314 |
| 22 | 1121 | 3417 | | STD T9 | STORE *3AA* EXIT CODE | 1AJ | 315 |
| 23 | 1122 | 5017 1127 | | LDM SCHA,T9 | SET *3AA* EXIT PROCESSOR ADDRESS | 1AJ | 316 |
| 24 | 1124 | 3417 | | STD T9 | | 1AJ | 317 |
| 25 | 1125 | 0117 0000 | | LJM 0,T9 | ENTER *3AA* EXIT PROCESSOR | 1AJ | 318 |
| 26 | | | | | | 1AJ | 319 |
| 27 | | | | | | 1AJ | 320 |
| 28 | 1127 | | SCHA | INDEX | TABLE OF *3AA* EXIT PROCESSORS | 1AJ | 321 |
| 29 | L 0 | 1155 | | INDEX 0,ADJ | ADVANCE JOB | 1AJ | 322 |
| 30 | L 1 | 1600 | | INDEX 1,ENJ | END JOB | 1AJ | 323 |
| 31 | 1131 | | | INDEX 2 | | 1AJ | 324 |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | | | | | |
| 35 | | | | | | | |
| 36 | | ** | DIS - *DIS* CALL (FUNCTION CODE 2). | | | 1AJ | 326 |
| 37 | | * | | | | 1AJ | 327 |
| 38 | | * | EXIT TO *CSR*. | | | 1AJ | 328 |
| 39 | | | | | | 1AJ | 329 |
| 40 | | | | | | 1AJ | 330 |
| 41 | | * | DIS LJM CSR | CHECK FOR SPECIAL SYSTEM REQUEST | | 1AJ | 331 |
| 42 | | | | | | | |
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** PPC - PP CALLS (FUNCTION CODES 2 AND 3).
*
* EXIT TO *DPP* TO DROP PP.
* TO *XCS* TO EXECUTE COMMAND.
*
* USES CM.
*
* CALLS PES.

1AJ 333
1AJ 334
1AJ 335
V23L617 14
1AJ 337
1AJ 338
1AJ 339
NS2009 1
1AJ 343
1AJ 344
1AJ 345
1AJ 346
1AJ 347
1AJ 348
NS2323 7
NS2323 8
NS2009 2
1AJ 352
1AJ 353
1AJ 354
1AJ 355
1AJ 356
1AJ 357
1AJ 358
1AJ 359
1AJ 360
V23L617 15

| Job ID | Code | PPC | BSS | 0 | ENTRY | 1AJ | 333-360 |
|--------|-----------|------|-----|------|---|---------|---------|
| 1131 | | PPC | BSS | 0 | ENTRY | 1AJ | 345 |
| 1131 | 3065 | | LDD | RF | CHECK REPRIEVE FLAG | 1AJ | 346 |
| 1132 | 2200 0100 | | LPC | 100 | | 1AJ | 347 |
| 1134 | 3146 | | ADD | EF | | 1AJ | 348 |
| 1135 | 5100 1112 | | ADM | PRCF | | NS2323 | 7 |
| 1137 | 0405 | | ZJN | PPC1 | IF NO ERROR FLAG OR JOB STEP PROCESSING | NS2323 | 8 |
| 1140 | 0200 1675 | | RJM | PES | PROCESS ERROR AND SCP CONNECTIONS | NS2009 | 2 |
| 1142 | 0100 1571 | | LJM | DPP | DROP PP | 1AJ | 352 |
| 1144 | 3410 | PPC1 | STD | CM | CLEAR ERROR MESSAGE | 1AJ | 354 |
| 1145 | 3054 | | LDD | IR+4 | | 1AJ | 355 |
| 1146 | 1020 | | SHN | 21-1 | | 1AJ | 356 |
| 1147 | 0604 | | PJN | PPC2 | IF NO RETURN OF ERROR MESSAGE | 1AJ | 357 |
| 1150 | 3074 | | LDD | CP | | 1AJ | 358 |
| 1151 | 1636 | | ADN | MS2W | | 1AJ | 359 |
| 1152 | 6210 | | CWD | CM | | 1AJ | 360 |
| 1153 | 0100 2056 | PPC2 | LJM | XCS | EXECUTE COMMAND | V23L617 | 15 |

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| | ** | | | | ADJ - ADVANCE JOB. | 1AJ | 364 |
| | * | | | | | 1AJ | 365 |
| | * | | | | PROCESSES ERROR FLAG OR REPRIEVE, IF SET, AND | 1AJ | 366 |
| 1 | * | | | | EXECUTES THE NEXT COMMAND, IF PRESENT. | V23L617 | 16 |
| 2 | * | | | | IF NO COMMANDS REMAIN, THE END-OF-JOB | V23L617 | 17 |
| 3 | * | | | | PROCESSOR WILL BE CALLED. | 1AJ | 369 |
| 4 | * | | | | | 1AJ | 370 |
| 5 | * | | | | EXIT TO *ENJ* TO END JOB. | 1AJ | 371 |
| 6 | * | | | | TO *XCS* TO EXECUTE COMMAND. | V23L617 | 18 |
| 7 | * | | | | TO *ROJ* TO ROLLOUT JOB. | 1AJ | 374 |
| 8 | * | | | | | 1AJ | 375 |
| 9 | * | | | | CALLS PES, /3AF/RCF, *3AF*. | NS2009 | 3 |
| 10 | * | | | | | 1AJ | 377 |
| 11 | * | | | | MACROS EXECUTE. | 1AJ | 378 |
| 12 | | | | | | 1AJ | 379 |
| 13 | | | | | | 1AJ | 380 |
| 14 | 1155 | | | ADJ | BSS 0 ENTRY | 1AJ | 381 |
| 15 | 1155 | 3047 | | | LDD R0 CHECK ROLLOUT FLAG | 1AJ | 382 |
| 16 | 1156 | 0405 | | | ZJN ADJ1 IF ROLLOUT NOT SET | 1AJ | 383 |
| 17 | 1157 | 1400 | | | LDN 0 DO NOT PASS ERROR FLAG | 1AJ | 384 |
| 18 | 1160 | 3446 | | | STD EF | 1AJ | 385 |
| 19 | 1161 | 0100 1611 | | | LJM ROJ ROLLOUT JOB | 1AJ | 386 |
| 20 | | | | | | 1AJ | 387 |
| 21 | | | | * | PROCESS REPRIEVE OR ERROR FLAG. | 1AJ | 388 |
| 22 | | | | | | 1AJ | 389 |
| 23 | 1163 | 3065 | | ADJ1 | LDD RF CHECK REPRIEVE FLAG | 1AJ | 390 |
| 24 | 1164 | 2200 0100 | | | LPC 100 | 1AJ | 391 |
| 25 | 1166 | 3146 | | | ADD EF | 1AJ | 392 |
| 26 | 1167 | 5100 1112 | | | ADM PRCF | NS2323 | 9 |
| 27 | 1171 | 0430 | | | ZJN ADJ3 IF NO ERROR FLAG OR JOB STEP PROCESSING | NS2323 | 10 |
| 28 | 1172 | 0200 1675 | | | RJM PES PROCESS ERROR AND SCP CONNECTIONS | NS2009 | 4 |
| 29 | 1174 | 3074 | | | LDD CP | 1AJ | 396 |
| 30 | 1175 | 2100 0105 | | | ADC SEPW | 1AJ | 397 |
| 31 | 1177 | 6010 | | | CRD CM | 1AJ | 398 |
| 32 | 1200 | 3010 | | | LDD CM CHECK *SSJ=* JOB | 1AJ | 399 |
| 33 | 1201 | 1017 | | | SHN 21-2 | 1AJ | 400 |
| 34 | 1202 | 0610 | | | PJN ADJ2 IF NOT *SSJ=* | 1AJ | 401 |
| 35 | 1203 | 2036 0106 | | | EXECUTE 3AF | 1AJ | 402 |
| 36 | 1207 | 1400 | | | LDN 0 INDICATE JOB NOT BOTH *SSJ=* AND *DMP=* | 1AJ | 403 |
| 37 | 1210 | 0200 5203 | | | RJM /3AF/RCF RESTORE CONTROL POINT FIELDS | 1AJ | 404 |
| 38 | 1212 | 1400 | | ADJ2 | LDN 0 | NS2044 | 1 |
| 39 | | | | * | LDN 1 (CM/CPU PARITY ERROR) | NS2044 | 2 |
| 40 | | | | | | NS2044 | 3 |
| 41 | 1213 | 0403 | 1212 | ADJA | EQU *-1 (CM/CPU PARITY ERROR FLAG) | NS2044 | 3 |
| 42 | 1216 | 2000 0000 | | | NJP TER5 IF CM/CPU PARITY ERROR, FREEZE JOB | 243L647 | 1 |
| 43 | | | | | LDC ** CHECK FOR TERMINAL JOB | NS2044 | 5 |
| 44 | | | 1217 | TSTN | EQU *-1 INTERACTIVE TERMINAL NUMBER | V23L617 | 19 |
| 45 | 1220 | 0506 | | | NJN ADJ5 = 0 IF NOT ONLINE, INTERACTIVE JOB | V23L617 | 20 |
| 46 | | | | | | 1AJ31 | 1 |
| 47 | | | | * | ADVANCE TO NEXT COMMAND. | 1AJ | 410 |
| 48 | | | | | | V23L617 | 21 |
| 49 | 1221 | 2000 0000 | | ADJ3 | LDC 0 | 1AJ | 412 |
| 50 | | | | * | LDC 1 (COMMANDS REMAINING IN BUFFER OR CM) | NS2323 | 11 |
| 51 | | | 1222 | ADJB | EQU *-1 (PENDING COMMANDS FLAG) | NS2323 | 12 |
| 52 | 1223 | 0403 | | | ZJN ADJ5 IF NO COMMANDS PENDING IN BUFFER OR CM | NS2323 | 13 |
| 53 | 1224 | 0100 2056 | | ADJ4 | LJM XCS EXECUTE COMMAND | NS2323 | 14 |
| 54 | | | | | | V23L617 | 26 |
| 55 | | | | | | NS21000 | 5 |

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|--|------|------|--------|-----|--------|---------------------------------------|---------|-----|
| 1226 | 1400 | | ADJ5 | LDN | 0 | | 242L642 | 2 |
| | | | * | LDN | 1 | (NO NFL) | 242L642 | 3 |
| | | 1226 | ADJC | EQU | *-1 | | 242L642 | 4 |
| 1227 | 0524 | | | NJN | ADJ6 | IF NO NFL | 242L642 | 5 |
| 1230 | 3046 | | | LDD | EF | | NS2429 | 1 |
| 1231 | 0403 | | | ZJN | ADJ5.1 | IF NO ERROR FLAG SET | NS2429 | 2 |
| 1232 | 1703 | | | SBN | TAET+1 | | NS2429 | 3 |
| 1233 | 0720 | | | MJN | ADJ6 | IF TERMINAL INTERRUPT | NS2429 | 4 |
| 1234 | 3055 | | ADJ5.1 | NFA | SHCN | CHECK *SHELL* CONTROL | NS2429 | 5 |
| 1237 | 6010 | | | CRD | CM | | NS21000 | 7 |
| 1240 | 3010 | | | LDD | CM | | NS21000 | 8 |
| 1241 | 0412 | | | ZJN | ADJ6 | IF NO *SHELL* CONTROL | NS21000 | 9 |
| 1242 | 5000 | 1217 | | LDM | TSTN | | NS21000 | 10 |
| 1244 | 0407 | | | ZJN | ADJ6 | IF NOT INTERACTIVE | NS21000 | 11 |
| 1245 | 3014 | | | LDD | CM+4 | | NS21000 | 12 |
| 1246 | 1017 | | | SHN | 21-2 | | NS21000 | 13 |
| 1247 | 0604 | | | PJN | ADJ6 | IF INTERACTIVE COMMANDS NOT MONITORED | 1AJ116 | 1 |
| 1250 | 2000 | 0000 | | LDC | 0 | | 1AJ116 | 2 |
| | | 1251 | CRQF | EQU | *-1 | (CHARGE REQUIRED FLAG) | 1AJ116 | 3 |
| 1252 | 0451 | | | ZJN | ADJ4 | IF CHARGE NOT REQUIRED | 1AJ116 | 4 |
| 1253 | 0100 | 1600 | ADJ6 | LJM | ENJ | END JOB | NS21000 | 15 |
| | | | | | | | | |
| ** CPP - CALL PP PROGRAM. | | | | | | | 1AJ | 431 |
| * ENTRY (A) = NAME OF PP PROGRAM TO BE CALLED. | | | | | | | 1AJ | 432 |
| * (IR+2 - IR+4) = PROGRAM PARAMETERS. | | | | | | | 1AJ | 433 |
| * EXIT TO *PPR* TO EXECUTE PP PROGRAM. | | | | | | | 1AJ | 434 |
| * EXIT TO *PPR* TO EXECUTE PP PROGRAM. | | | | | | | 1AJ | 435 |
| * EXIT TO *PPR* TO EXECUTE PP PROGRAM. | | | | | | | 1AJ | 436 |
| * EXIT TO *PPR* TO EXECUTE PP PROGRAM. | | | | | | | 1AJ | 437 |
| * EXIT TO *PPR* TO EXECUTE PP PROGRAM. | | | | | | | 1AJ | 438 |
| 1255 | | | CPP | BSS | 0 | ENTRY | 1AJ | 439 |
| 1255 | 1014 | | | SHN | 14 | SET PP NAME IN INPUT REGISTER | 1AJ | 440 |
| 1256 | 3450 | | | STD | IR | | 1AJ | 441 |
| 1257 | 1071 | | | SHN | -6 | | 1AJ | 442 |
| 1260 | 3351 | | | LMD | IR+1 | | 1AJ | 443 |
| 1261 | 1377 | | | SCN | 77 | | 1AJ | 444 |
| 1262 | 3351 | | | LMD | IR+1 | | 1AJ | 445 |
| 1263 | 3451 | | | STD | IR+1 | | 1AJ | 446 |
| 1264 | 3075 | | | LDD | IA | STORE INPUT REGISTER | 1AJ | 447 |
| 1265 | 6250 | | | CWD | IR | | 1AJ | 448 |
| 1266 | 0100 | 0257 | | LJM | PPR | EXIT TO PP RESIDENT | 1AJ | 449 |

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|------|---|---------|-----|
| ** | CSR - CHECK FOR SPECIAL SYSTEM REQUEST. | 1AJ | 451 |
| * | | 1AJ | 452 |
| * | EXIT TO *ADJ* TO ADVANCE JOB. | 1AJ | 453 |
| * | TO *DPP* TO DROP PP. | 1AJ | 454 |
| * | TO *PPC* TO PROCESS ERROR REPRIEVE ON *DMP=* JOB. | 1AJ | 455 |
| * | TO */3AF/PSR* OR */3AF/PSR2* TO PROCESS SPECIAL | 1AJ | 456 |
| * | PROCESSOR REQUEST. | 1AJ | 457 |
| * | TO *TCS* TO TRANSLATE COMMAND. | V23L617 | 28 |
| * | | 1AJ | 459 |
| * | USES EF, R0 ,T3 , CM - CM+4, CN - CN+4, AB - AB+4. | NS2738 | 1 |
| * | | 1AJ | 461 |
| * | CALLS /3AE/CLD, CUA, DFM, /3AF/PSR, /3AF/RCF, SCP, TCS. | 1AJ | 462 |
| * | | 1AJ | 463 |
| * | MACROS EXECUTE, MONITOR. | NS2738 | 2 |
| | | 1AJ | 465 |
| | | 1AJ | 466 |
| 1270 | CSR BSS 0 ENTRY | 1AJ | 467 |
| 1270 | LDD CP READ SPECIAL ENTRY POINT WORD | 1AJ | 468 |
| 1271 | ADK SEPW | 1AJ | 469 |
| 1273 | CRD CM | 1AJ | 470 |
| 1274 | ADN SPCW-SEPW READ SPECIAL CALL WORD | 1AJ | 471 |
| 1275 | CRD CN | 1AJ | 472 |
| 1276 | LDD CN | 1AJ | 473 |
| 1277 | NJP CSR2 IF DMP= REQUEST PRESENT | NS2323 | 15 |
| 1302 | LDD FS | 1AJ | 475 |
| 1303 | ADD R0 | 1AJ | 476 |
| 1304 | NJN CSR1 IF JOB ACTIVITY OR ROLLOUT REQUESTED | 1AJ | 477 |
| 1305 | LDD RF | 1AJ | 478 |
| 1306 | LPC 100 | 1AJ | 479 |
| 1310 | ADD EF | 1AJ | 480 |
| 1311 | ADM PRCF | NS2323 | 16 |
| 1313 | NJN CSR1 IF ERROR FLAG OR JOB STEP PROCESSING | NS2323 | 17 |
| 1314 | LDD CM | 1AJ | 482 |
| 1315 | SHN 21-2 | 1AJ | 483 |
| 1316 | PJN CSR1 IF NOT *SSJ=* | 1AJ | 484 |
| 1317 | EXECUTE 3AF | 1AJ | 485 |
| 1323 | LDN 0 JOB IS NOT BOTH *SSJ=* AND *DMP=* | 1AJ | 486 |
| 1324 | RJM /3AF/RCF RESTORE CONTROL POINT FIELDS | 1AJ | 487 |
| 1326 | CSR1 LDD IR+2 | 1AJ | 488 |
| 1327 | NJP PPC IF NOT FUNCTION 0 | 1AJ | 489 |
| 1332 | LDD IR+4 | 1AJ | 490 |
| 1333 | LMN 2 | 1AJ | 491 |
| 1334 | ZJP DPP IF *DIS* CALL | 1AJ | 492 |
| 1337 | LJM ADJ ADVANCE JOB | 1AJ | 493 |
| | | 1AJ | 494 |
| 1341 | CSR2 LDD IR+4 | 1AJ | 495 |
| 1342 | LMN 1 | 1AJ | 496 |
| 1343 | NJN CSR4 IF *1R0* NOT ALREADY CALLED | 1AJ | 497 |
| 1344 | CSR3 EXECUTE TCS | 1AJ | 498 |
| | | 1AJ | 499 |
| 1350 | CSR4 LDD CN+1 | 1AJ | 500 |
| 1351 | SHN 21-5 | 1AJ | 501 |
| 1352 | PJN CSR6 IF NO SPECIAL REQUEST ACTIVE | 1AJ | 502 |
| 1353 | LDD R0 | 1AJ | 503 |
| 1354 | NJN CSR1 IF ROLLOUT SET | 1AJ | 504 |
| 1355 | LDD EF | 1AJ | 505 |
| 1356 | ZJN CSR5 IF NO ERROR | 1AJ | 506 |

| | | | | | | | | |
|------|------|------|--------|---------|------------------------------------|---|---------|-----|
| 1357 | 1400 | | CSRC | LDN | 0 | CHECK FOR EXTENDED REPRIEVE PROCESSING | 1AJ98 | 1 |
| | | | * | LDN | 1 | (IF EXTENDED REPRIEVE PROCESSING) | 1AJ98 | 2 |
| 1360 | 0405 | | | ZJN | CSR5 | IF NOT EXTENDED REPRIEVE PROCESSING | 1AJ98 | 3 |
| 1361 | 3065 | | | LDD | RF | | 1AJ | 510 |
| 1362 | 0403 | | | ZJN | CSR5 | IF ERROR MASK NOT SET | 1AJ | 511 |
| 1363 | 0100 | 1131 | | LJM | PPC | PROCESS ERROR REPRIEVE ON *DMP=* JOB | 1AJ | 512 |
| | | | | | | | 1AJ | 513 |
| 1365 | 0200 | 1724 | CSR5 | RJM | SCP | CLEAR ANY OUTSTANDING SCP CONNECTIONS | NS2738 | 3 |
| 1367 | 0354 | | | UJN | CSR3 | RESTART ORIGINAL JOB | 1AJ | 518 |
| | | | | | | | 1AJ | 519 |
| 1370 | 3025 | | CSR6 | LDD | CN | | 1AJ | 520 |
| 1371 | 1177 | | | LMN | 77 | | 1AJ | 521 |
| 1372 | 0513 | | | NJN | CSR7 | IF NOT COMMAND CALL | V23L617 | 29 |
| 1373 | 3056 | | | LDD | FL | | 1AJ | 523 |
| 1374 | 0503 | | | ZJP | CSR8 | IF NO FL ASSIGNED | 1AJ | 524 |
| 1377 | 2036 | 0106 | | EXECUTE | 3AF | | 1AJ | 525 |
| 1403 | 0100 | 5327 | | LJM | /3AF/PSR2 | PROCESS SPECIAL PROCESSOR REQUEST | 1AJ | 526 |
| | | | | | | | 1AJ | 527 |
| | | | * | | | CHECK IF *DMP=* PROGRAM CAN BE CALLED FROM PROGRAM WITH | 1AJ | 528 |
| | | | * | | | SECURE MEMORY SET. | 1AJ | 529 |
| | | | | | | | 1AJ | 530 |
| 1405 | 2000 | 1554 | CSR7 | LDC | TLCN-2 | CHECK TABLE OF LEGAL CALL NAMES | 1AJ | 531 |
| 1407 | 3403 | | | STD | T3 | | 1AJ | 532 |
| 1410 | 1402 | | CSR7.1 | LDN | 2 | CHECK NEXT NAME | 1AJ | 533 |
| 1411 | 3503 | | | RAD | T3 | | 1AJ | 534 |
| 1412 | 4003 | | | LDI | T3 | COMPARE FIRST PART OF CALL NAME | 1AJ | 535 |
| 1413 | 0411 | | | ZJN | CSR7.2 | IF END OF TABLE | 1AJ | 536 |
| 1414 | 3325 | | | LMD | CN | | 1AJ | 537 |
| 1415 | 0572 | | | NJN | CSR7.1 | IF NOT A MATCH | 1AJ | 538 |
| 1416 | 5003 | 0001 | | LDM | 1,T3 | COMPARE SECOND PART OF CALL NAME | 1AJ | 539 |
| 1420 | 3326 | | | LMD | CN+1 | | 1AJ | 540 |
| 1421 | 1377 | | | SCN | 77 | | 1AJ | 541 |
| 1422 | 0565 | | | NJN | CSR7.1 | IF NOT A MATCH | 1AJ | 542 |
| 1423 | 0325 | | | UJN | CSR9 | PROCESS CALL | 1AJ | 543 |
| | | | | | | | 1AJ | 544 |
| | | | | | | | 1AJ | 545 |
| 1424 | 3010 | | CSR7.2 | LDD | CM | | 1AJ | 546 |
| 1425 | 1017 | | | SHN | 21-2 | | 1AJ | 547 |
| 1426 | 0722 | | | MJN | CSR9 | IF *SSJ=* JOB | 1AJ | 548 |
| 1427 | 3074 | | | LDD | CP | CHECK SSM STATUS | 1AJ | 549 |
| 1430 | 2100 | 0111 | | ADC | DBAW | | 1AJ | 550 |
| 1432 | 6010 | | | CRD | CM | | 1AJ | 551 |
| 1433 | 3010 | | | LDD | CM | | 1AJ | 552 |
| 1434 | 1006 | | | SHN | 21-13 | | 1AJ | 553 |
| 1435 | 0613 | | | PJN | CSR9 | IF NOT SECURE MEMORY | 1AJ | 554 |
| 1436 | 0200 | 3142 | | RJM | CUA | CHECK USER ACESS | 1AJ | 555 |
| 1440 | 0410 | | | ZJN | CSR9 | IF ACCESS ALLOWED | 1AJ | 556 |
| 1441 | 2000 | 1406 | CSR8 | LDC | LDNI+PPET | CHANGE ERROR TO *PPET* | 1AJ | 557 |
| 1443 | 5400 | 1526 | | STM | CSRA | | 1AJ | 558 |
| 1445 | 2000 | 2241 | | LDC | =C* SECURE MEMORY, DUMP DISABLED.* | | 1AJ | 559 |
| 1447 | 0323 | | | UJN | CSR11 | ISSUE ERROR MESSAGE | 1AJ | 560 |
| | | | | | | | 1AJ | 561 |
| 1450 | 1466 | | CSR9 | LDN | ZERL | CLEAR NAME | 1AJ | 562 |
| 1451 | 6032 | | | CRD | AB | | 1AJ | 563 |
| 1452 | 3025 | | | LDD | CN | SET CALL NAME | 1AJ | 564 |
| 1453 | 3432 | | | STD | AB | | 1AJ | 565 |
| 1454 | 3026 | | | LDD | CN+1 | | 1AJ | 566 |

| | | | | | | | | |
|------|------|------|---------|------------|-----------------------------------|-----------------------------|---------|-----|
| 1455 | 1377 | | SCN | 77 | | | 1AJ | 567 |
| 1456 | 3433 | | STD | AB+1 | | | 1AJ | 568 |
| 1457 | 2036 | 0105 | EXECUTE | 3AE | | | 1AJ | 569 |
| 1463 | 0200 | 6512 | RJM | /3AE/CLD | SEARCH CLD | | 1AJ | 570 |
| 1465 | 0403 | | NJP | CSR12 | IF FOUND | | 1AJ34 | 1 |
| 1470 | 2000 | 2261 | LDC | =C* | SPCW CALL ERROR.* | | 1AJ | 572 |
| | | | | | | | 1AJ | 573 |
| | | | * | | ISSUE ERROR MESSAGE. | | 1AJ | 574 |
| | | | | | | | 1AJ | 575 |
| 1472 | 0200 | 0423 | CSR11 | RJM | DFM | | 1AJ | 576 |
| 1474 | 1466 | | LDN | ZERL | | | 1AJ | 577 |
| 1475 | 6032 | | CRD | AB | | | 1AJ | 578 |
| 1476 | 3074 | | LDD | CP | CLEAR SPECIAL CALL WORD | | 1AJ | 579 |
| 1477 | 2100 | 0106 | ADC | SPCW | | | 1AJ | 580 |
| 1501 | 6232 | | CWD | AB | | | 1AJ | 581 |
| 1502 | 3056 | | LDD | FL | | | 1AJ | 582 |
| 1503 | 0422 | | ZJN | CSR11.1 | IF NO FL ASSIGNED | | 1AJ | 583 |
| 1504 | 3055 | | LDD | RA | CLEAR SYSTEM REQUEST | | V23L617 | 30 |
| 1505 | 1006 | | SHN | 6 | | | 1AJ | 585 |
| 1506 | 1601 | | ADN | 1 | | | 1AJ | 586 |
| 1507 | 6232 | | CWD | AB | | | 1AJ | 587 |
| 1510 | 1466 | | LDN | ZERL | CLEAR *STSW* ROLLOUT STATUS | | 1AJ34 | 2 |
| 1511 | 6010 | | CRD | CM | | | 1AJ34 | 3 |
| 1512 | 1401 | | LDN | 1 | | | 1AJ34 | 4 |
| 1513 | 3411 | | STD | CM+1 | | | 1AJ34 | 5 |
| 1514 | 3074 | | LDD | CP | | | 1AJ34 | 6 |
| 1515 | 3414 | | STD | CM+4 | | | 1AJ34 | 7 |
| 1516 | 3077 | | LDD | MA | | | 1AJ34 | 8 |
| 1517 | 6370 | 1551 | CWM | CSRB,ON | | | 1AJ34 | 9 |
| 1521 | 2000 | 0115 | MONITOR | UTEM | | | 1AJ34 | 10 |
| | | | * | | | | 1AJ34 | 11 |
| 1525 | 3447 | | CSR11.1 | LDN | 0 | CLEAR ROLLOUT STATUS | 1AJ34 | 11 |
| 1526 | 1443 | | CSRA | STD | RO | | 1AJ | 589 |
| | | | * | LDN | SYET | SET ERROR FLAG | 1AJ | 590 |
| | | | | LDN | PPET | (INCORRECT *DMP=* CALL) | V23L617 | 31 |
| 1527 | 3446 | | STD | EF | | | 1AJ | 592 |
| 1530 | 0100 | 1326 | LJM | CSR1 | DROP PP | | 1AJ | 593 |
| | | | | | | | 1AJ | 594 |
| 1532 | 6010 | | CSR12 | CRD | CM | READ PST CONTROL WORD ENTRY | 1AJ | 595 |
| 1533 | 3077 | | LDD | MA | SET ENTRY POINT NAME | | 1AJ | 596 |
| 1534 | 6232 | | CWD | AB | | | 1AJ | 597 |
| 1535 | 6170 | 6503 | CRM | /3AE/CL,ON | | | 1AJ | 598 |
| 1537 | 3002 | | LDD | T2 | SAVE PST ADDRESS | | 1AJ | 599 |
| 1540 | 3434 | | STD | AB+2 | | | 1AJ | 600 |
| 1541 | 3001 | | LDD | T1 | | | 1AJ | 601 |
| 1542 | 3433 | | STD | AB+1 | | | 1AJ | 602 |
| 1543 | 2036 | 0106 | EXECUTE | 3AF | | | 1AJ | 603 |
| 1547 | 0100 | 5311 | LJM | /3AF/PSR | PROCESS SPECIAL PROCESSOR REQUEST | | 1AJ | 604 |
| | | | | | | | 1AJ34 | 12 |
| | | | | | | | 1AJ34 | 13 |
| 1551 | 2002 | | CSRB | VFD | 6/STSW,6/2,6/24D,42/0 | CLEAR ROLLOUT STATUS | 1AJ34 | 14 |
| 1552 | 3000 | | | | | | | |
| 1553 | 0000 | | | | | | | |
| 1554 | 0000 | | | | | | | |
| 1555 | 0000 | | | | | | | |

** TLCN - TABLE OF LEGAL *DMP=* PROGRAM CALL NAMES
* FOR PROGRAMS WITH SECURE MEMORY SET.

1AJ 606
1AJ 607
1AJ 608
1AJ 609
V23L617 32
1AJ 610
1AJ 611
1AJ 612
1AJ 613
1AJ 614

| | | | | | | | | | |
|---|------|------|------|------|-------|--|--|-----|-----|
| 1 | 1556 | | TLCN | BSS | 0 | | | 1AJ | 606 |
| 2 | 1556 | 0320 | | DATA | 3LCPF | | | 1AJ | 607 |
| 3 | 1560 | 0326 | | DATA | 3LCVL | | | 1AJ | 608 |
| 4 | 1562 | 1406 | | DATA | 3LLFM | | | 1AJ | 609 |
| 5 | 1564 | 2006 | | DATA | 3LPFM | | | 1AJ | 610 |
| 6 | 1566 | 2205 | | DATA | 3LREQ | | | 1AJ | 611 |
| 7 | 1570 | 0000 | | CON | 0 | | | 1AJ | 612 |

** DPP - DROP PP.
* ISSUES *JACM* REQUEST TO CLEAR THE JOB ADVANCE FLAG
* AND TO DROP THE PPU.
* EXIT TO *PPR*.
* MACROS MONITOR.

1AJ 616
1AJ 617
1AJ 618
1AJ 619
1AJ 620
1AJ 621
1AJ 622
1AJ 623
1AJ 624
1AJ 625
1AJ 626
1AJ 627
1AJ 628
1AJ 629

| | | | | | | | | | |
|----|------|-----------|-----|---------|------|-------------------------------|--|-----|-----|
| 22 | 1571 | 1402 | DPP | LDN | DPPS | CLEAR JOB ADVANCE AND DROP PP | | 1AJ | 626 |
| 23 | 1572 | 3411 | | STD | CM+1 | | | 1AJ | 627 |
| 24 | 1573 | 1463 | | MONITOR | JACM | | | 1AJ | 628 |
| 25 | 1576 | 0100 0257 | | LJM | PPR | EXIT TO PP RESIDENT | | 1AJ | 629 |

** ENJ - END JOB.
* ENTRY (TSTN) = TERMINAL NUMBER IF ONLINE.
* EXIT TO *ROJ1* IF ON-LINE INTERACTIVE JOB.
* TO *TER* OTHERWISE.
* CALLS RJF, SCP.

1AJ 631
1AJ 632
1AJ 633
1AJ 634
NS2433B 2
1AJ 636
1AJ76 1
NS2719 1
1AJ 637
1AJ 638
1AJ 639
1AJ76 3
NS2719 2
1AJ 640
NS2433B 3
242L642 8
242L642 9
1AJ 642

| | | | | | | | | | |
|----|------|-----------|------|------|------|-----------------------|---------------|---------|-----|
| 40 | 1600 | | ENJ | BSS | 0 | ENTRY | | 1AJ | 639 |
| 41 | 1600 | 0200 1724 | | RJM | SCP | CHECK SCP ACTIVITY | | 1AJ76 | 3 |
| 42 | 1602 | 0200 1707 | | RJM | RJF | RETURN JOB STEP FILES | | NS2719 | 2 |
| 43 | 1604 | 5000 1217 | | LDM | TSTN | CHECK TERMINAL NUMBER | | 1AJ | 640 |
| 44 | 1606 | 0506 | | NJN | ROJ1 | IF ONLINE | | NS2433B | 3 |
| 45 | | | * | PSN | | (NO NFL) | | 242L642 | 8 |
| 46 | | | | EQU | *-1 | | | 242L642 | 9 |
| 47 | 1607 | 0100 2003 | 1606 | ENJB | LJM | TER | TERMINATE JOB | 1AJ | 642 |

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|------|------|------|----|--------------------------------------|-------------------|---|------------|
| | | | ** | ROJ - ROLLOUT JOB. | | NS2433B | 5 |
| | | | * | | | NS2433B | 6 |
| | | | * | SETS UP LINKAGE TO ROLLOUT JOB. | | NS2433B | 7 |
| | | | * | | | NS2433B | 8 |
| | | | * | EXIT TO *IRO*. | | NS2433B | 9 |
| | | | | | | NS2433B | 10 |
| | | | | | | NS2433B | 11 |
| 1611 | | | | ROJ | BSS 0 | ENTRY | NS2433B 12 |
| 1611 | 5000 | 1217 | | | LDM TSTN | CHECK TERMINAL NUMBER | NS2433B 13 |
| 1613 | 0402 | | | | ZJN IRO | IF NOT INTERACTIVE JOB | NS2433B 14 |
| 1614 | 3046 | | | ROJ1 | LDD EF | SET ERROR FLAG FOR *1RO* | NS2433B 15 |
| | | | * | | UJN IRO | ROLLOUT INTERACTIVE JOB | NS2433B 16 |
| | | | | | | | |
| | | | ** | IRO - EXECUTE *1RO*. | | 1AJ | 644 |
| | | | * | | | 1AJ | 645 |
| | | | * | LOADS AND EXECUTES *1RO* IN THIS PP. | | 1AJ | 646 |
| | | | * | | | 1AJ | 647 |
| | | | * | ENTRY (A) = INTERACTIVE ERROR FLAG. | | V23L617 | 33 |
| | | | * | | | 1AJ | 649 |
| | | | * | EXIT TO *CPP*. | | 1AJ | 650 |
| | | | * | | | 1AJ | 651 |
| | | | * | USES IR+2, IR+4, CM - CM+4. | | 1AJ | 652 |
| | | | * | | | 1AJ | 653 |
| | | | * | CALLS *1RO*. | | 1AJ | 654 |
| | | | * | | | 1AJ | 655 |
| | | | * | MACROS EXECUTE. | | 1AJ | 656 |
| | | | | | | 1AJ | 657 |
| | | | | | | 1AJ | 658 |
| 1615 | | | | IRO | BSS 0 | ENTRY | 1AJ 659 |
| 1615 | 3454 | | | | STD IR+4 | SET INTERACTIVE ERROR FLAG | V23L617 34 |
| 1616 | 1400 | | | | LDN 0 | INDICATE NORMAL ROLLOUT | 1AJ 661 |
| 1617 | 3452 | | | | STD IR+2 | | 1AJ 662 |
| 1620 | 5000 | 1110 | | | LDM JTOP | | 1AJ 663 |
| 1622 | 1101 | | | | LMN SUJT | | 1AJ 664 |
| 1623 | 0413 | | | | ZJN IRO1 | IF SUSPEND TERMINATION OPTION | 1AJ 665 |
| 1624 | 3074 | | | | LDD CP | UNCONDITIONALLY CLEAR SUSPEND FLAG | 1AJ 666 |
| 1625 | 1620 | | | | ADN STSW | | 1AJ 667 |
| 1626 | 6010 | | | | CRD CM | | 1AJ 668 |
| 1627 | 3012 | | | | LDD CM+2 | | 1AJ 672 |
| 1630 | 2277 | 7677 | | | LPC -100 | | 1AJ 673 |
| | | | 0 | | ERRNZ ROSU*10-100 | CODE ASSUMES SUSPENSION FLAG IS BIT 30D | 1AJ 674 |
| 1632 | 3412 | | | | STD CM+2 | | 1AJ 675 |
| 1633 | 3074 | | | | LDD CP | | 1AJ 676 |
| 1634 | 1620 | | | | ADN STSW | | 1AJ 677 |
| 1635 | 6210 | | | | CWD CM | | 1AJ 678 |
| 1636 | 2034 | 2217 | | IR01 | EXECUTE 1RO,* | | 1AJ 681 |
| 1640 | 0100 | 1255 | | | LJM CPP | EXECUTE *1RO* | 1AJ 682 |

| | | | | | | | |
|----|------|-----------|------|--|-------------------------------------|---------|----|
| | | | ** | ITF - ISSUE *TSEM* FUNCTION. | | NS2467 | 2 |
| | | | * | | | NS2467 | 3 |
| | | | * | ENTRY *TSEM* PARAMETERS WRITTEN TO MESSAGE BUFFER. | | NS2467 | 4 |
| | | | * | | | NS2467 | 5 |
| | | | * | EXIT (A) = 0, IF IAF INACCESSIBLE OR ERROR. | | NS2467 | 6 |
| | | | * | (A) .NE. 0, IF REQUEST COMPLETE. | | NS2467 | 7 |
| | | | * | | | NS2467 | 8 |
| | | | * | USES T1, CM - CM+4. | | 271L716 | 1 |
| | | | * | | | NS2467 | 10 |
| | | | * | MACROS DELAY, MONITOR, PAUSE. | | NS2467 | 11 |
| | | | | | | NS2467 | 12 |
| | | | | | | NS2467 | 13 |
| 10 | 1642 | 0100 1642 | ITF | SUBR | ENTRY/EXIT | NS2467 | 14 |
| 11 | 1644 | 1466 | ITF1 | LDK ZERL | | 271L716 | 2 |
| 12 | 1645 | 6010 | | CRD CM | | 271L716 | 3 |
| 13 | 1646 | 2000 0113 | | MONITOR TSEM | | 271L716 | 4 |
| 14 | 1652 | 3011 | | LDD CM+1 | | NS2467 | 16 |
| 15 | 1653 | 0466 | | ZJN ITFX | IF IAF INACCESSIBLE OR ERROR | NS2467 | 17 |
| 16 | 1654 | 2300 7777 | | LMC 7777 | | NS2467 | 18 |
| 17 | 1656 | 0563 | | NJN ITFX | IF REQUEST COMPLETE | NS2467 | 19 |
| 18 | 1657 | 1400 | | PAUSE ST | *TSEM* QUEUE FULL - DELAY AND RETRY | NS2467 | 20 |
| 19 | 1662 | 2000 3600 | | LDC 3600 | | NS2467 | 21 |
| 20 | 1664 | 3401 | | STD T1 | | NS2467 | 22 |
| 21 | 1665 | 5000 0255 | ITF2 | DELAY | | NS2467 | 23 |
| 22 | 1671 | 3701 | | SOD T1 | | NS2467 | 24 |
| 23 | 1672 | 0451 | | ZJN ITF1 | IF TIME TO REISSUE REQUEST | NS2467 | 25 |
| 24 | 1673 | 0371 | | UJN ITF2 | CONTINUE TO DELAY | NS2467 | 26 |
| 29 | | | ** | PES - PROCESS ERROR FLAG AND SCP CONNECTIONS. | | NS2009 | 6 |
| 30 | | | * | | | NS2009 | 7 |
| 31 | | | * | CALLS SCP, *3AB*. | | NS2009 | 8 |
| 32 | | | * | | | NS2009 | 9 |
| 33 | | | * | MACROS EXECUTE. | | NS2009 | 10 |
| 34 | | | | | | NS2009 | 11 |
| 35 | | | | | | NS2009 | 12 |
| 36 | 1674 | 0100 1674 | PES | SUBR | ENTRY/EXIT | NS2009 | 13 |
| 37 | 1676 | 2036 0102 | PES1 | EXECUTE 3AB | EXECUTE ERROR PROCESSOR | NS2009 | 14 |
| 38 | 1702 | 0471 | | ZJN PESX | IF ERROR PROCESSING COMPLETE | NS2009 | 15 |
| 39 | 1703 | 0200 1724 | | RJM SCP | PROCESS SCP CONNECTIONS | NS2009 | 16 |
| 40 | 1705 | 0370 | | UJN PES1 | CONTINUE ERROR PROCESSING | NS2009 | 17 |
| 45 | | | ** | RJF - RETURN JOB STEP PRIVATE FILES. | | NS2719 | 4 |
| 46 | | | * | | | NS2719 | 5 |
| 47 | | | * | USES CM - CM+4. | | NS2719 | 6 |
| 48 | | | * | | | NS2719 | 7 |
| 49 | | | * | CALLS /3AG/RJF. | | NS2719 | 8 |
| 50 | | | * | | | NS2719 | 9 |
| 51 | | | * | MACROS EXECUTE. | | NS2719 | 10 |
| 52 | | | | | | NS2719 | 11 |
| 53 | | | | | | NS2719 | 12 |
| 54 | 1706 | 0100 1706 | RJF | SUBR | ENTRY/EXIT | NS2719 | 13 |

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|------|------|------|---------|---------|--|--------|-----|
| 1710 | 3074 | | LDD | CP | | NS2719 | 14 |
| 1711 | 1626 | | ADN | JCIW | GET JOB CONTROL FLAGS | NS2719 | 15 |
| 1712 | 6010 | | CRD | CM | | NS2719 | 16 |
| 1713 | 3013 | | LDD | CM+3 | | NS2719 | 17 |
| 1714 | 1011 | | SHN | 21-10 | | NS2719 | 18 |
| 1715 | 0670 | | PJN | RJFX | IF NO JOB STEP FILES TO RETURN | NS2719 | 19 |
| 1716 | 2036 | 0107 | EXECUTE | 3AG | RETURN JOB STEP FILES | NS2719 | 20 |
| 1722 | 0363 | | UJN | RJFX | RETURN | NS2719 | 21 |
| | | | ** | | SCP - CHECK SYSTEM CONTROL POINT (SCP) ACTIVITY. | 1AJ | 710 |
| | | | * | | | 1AJ | 711 |
| | | | * | | ENTRY (SCAF) = SCP ACTIVITY FLAGS: | 1AJ | 712 |
| | | | * | | BIT 0 = UCP WITH CONNECTION TO SCP. | 1AJ | 713 |
| | | | * | | BIT 1 = SCP WITH CONNECTION TO UCP. | 1AJ | 714 |
| | | | * | | BIT 2 = *SF.EXIT* REQUEST ISSUED. | 1AJ | 715 |
| | | | * | | BIT 3 = *SSIW* IDENTIFICATION MUST | 1AJ | 716 |
| | | | * | | BE CLEARED. | 1AJ | 717 |
| | | | * | | | 1AJ | 718 |
| | | | * | | EXIT TO *DPP* IF ROLLOUT CPU STATUS PRESENT AND SYSTEM | NS2696 | 1 |
| | | | * | | DEBUG MODE NOT ENABLED. | NS2696 | 2 |
| | | | * | | | 1AJ | 720 |
| | | | * | | USES CM - CM+4, SC. | NS2696 | 3 |
| | | | * | | | NS2696 | 4 |
| | | | * | | CALLS *0ST*. | 1AJ | 721 |
| | | | * | | | 1AJ | 722 |
| | | | * | | MACROS EXECUTE, MONITOR. | NS2696 | 5 |
| | | | | | | 1AJ | 724 |
| | | | | | | 1AJ | 725 |
| 1723 | 0100 | 1723 | SCP | SUBR | ENTRY/EXIT | 1AJ | 726 |
| 1725 | 5000 | 1113 | | LDM | SCAF | 1AJ | 727 |
| 1727 | 0473 | | | ZJN | SCPX | 1AJ | 728 |
| 1730 | 3467 | | | STD | SC | 1AJ | 729 |
| 1731 | 3074 | | | LDD | CP | NS2696 | 6 |
| 1732 | 1620 | | | ADN | STSW | NS2696 | 7 |
| 1733 | 6010 | | | CRD | CM | NS2696 | 8 |
| 1734 | 3012 | | | LDD | CM+2 | NS2696 | 9 |
| 1735 | 1202 | | | LPN | 2 | NS2696 | 10 |
| 1736 | 0413 | | | ZJN | SCP1 | NS2696 | 11 |
| 1737 | 2000 | 1737 | | LDC | * | NS2696 | 12 |
| 1741 | 3411 | | | STD | CM+1 | NS2696 | 13 |
| 1742 | 1445 | | | LDK | SWET | NS2696 | 14 |
| 1743 | 3412 | | | STD | CM+2 | NS2696 | 15 |
| 1744 | 1421 | | | MONITOR | CHGM | NS2696 | 16 |
| 1747 | 0100 | 1571 | | LJM | DPP | NS2696 | 17 |
| | | | | | | NS2696 | 18 |
| 1751 | 2000 | 2300 | SCP1 | EXECUTE | 0ST,E1AJ | NS2696 | 19 |
| 1760 | 3067 | | | LDD | SC | 1AJ | 731 |
| 1761 | 5400 | 1113 | | STM | SCAF | 1AJ | 732 |
| 1763 | 0100 | 1723 | | UJP | SCPX | 1AJ | 733 |

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| | ** | | | | SUS - SUSPEND JOB. | 1AJ | 735 |
| | * | | | | | 1AJ | 736 |
| | * | | | | SETS THE SUSPENSION-REQUESTED FLAG IN THE CONTROL | 1AJ | 737 |
| 1 | * | | | | POINT AREA AND CALLS *IRO* TO ROLLOUT THE JOB. | 1AJ | 738 |
| 2 | * | | | | | 1AJ | 739 |
| 3 | * | | | | EXIT TO *IRO*. | 1AJ | 740 |
| 4 | * | | | | | 1AJ | 741 |
| 5 | * | | | | USES CM - CM+4. | 1AJ | 742 |
| 6 | | | | | | 1AJ | 743 |
| 7 | | | | | | 1AJ | 744 |
| 8 | | 1765 | | | SUS BSS 0 ENTRY | 1AJ | 745 |
| 9 | | 1765 | 3074 | | LDD CP READ CP STATUS WORD | 1AJ | 746 |
| 10 | | 1766 | 1620 | | ADN STSW | 1AJ | 747 |
| 11 | | 1767 | 6010 | | CRD CM | 1AJ | 748 |
| 12 | | 1770 | 3012 | | LDD CM+2 SET SUSPENSION-REQUESTED FLAG | 1AJ | 749 |
| 13 | | 1771 | 2277 7677 | | LPC -100 | 1AJ | 750 |
| 14 | | 1773 | 3371 | | LMD HN | 1AJ | 751 |
| 15 | | 1774 | 3412 | | STD CM+2 | 1AJ | 752 |
| 16 | | 1775 | 3074 | | LDD CP REWRITE STATUS WORD | 1AJ | 753 |
| 17 | | 1776 | 1620 | | ADN STSW | 1AJ | 754 |
| 18 | | 1777 | 6210 | | CWD CM | 1AJ | 755 |
| 19 | | 2000 | 1400 | | LDN 0 CLEAR INTERACTIVE ERROR FLAG | 1AJ | 756 |
| 20 | | 2001 | 0100 1615 | | UJP IRO ROLLOUT JOB | 1AJ | 757 |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | ** | | | | TER - TERMINATE JOB. | 1AJ | 759 |
| 26 | * | | | | | 1AJ | 760 |
| 27 | * | | | | EXECUTES JOB TERMINATION PROCESSOR OVERLAYS. | 1AJ | 761 |
| 28 | * | | | | | 1AJ | 762 |
| 29 | * | | | | ENTRY (EF) = JOB ERROR FLAG. | 1AJ | 763 |
| 30 | * | | | | | 1AJ | 764 |
| 31 | * | | | | EXIT (JTOP) = JOB TERMINATION OPTION. | 1AJ | 765 |
| 32 | * | | | | TO *XCS* TO EXECUTE COMMANDS. | V23L617 | 37 |
| 33 | * | | | | TO *SUS* TO SUSPEND JOB. | 1AJ | 767 |
| 34 | * | | | | TO *PPR* TO DROP PPU. | 1AJ | 768 |
| 35 | * | | | | | 1AJ | 769 |
| 36 | * | | | | USES CM+1. | 1AJ | 770 |
| 37 | * | | | | | 1AJ | 771 |
| 38 | * | | | | CALLS RLS, SCP, *3AJ*, *3AK*. | 1AJ | 772 |
| 39 | * | | | | | 1AJ | 773 |
| 40 | * | | | | MACROS EXECUTE, MONITOR. | 1AJ | 774 |
| 41 | | | | | | 1AJ | 775 |
| 42 | | | | | | 1AJ | 776 |
| 43 | | 2003 | | | TER BSS 0 ENTRY | 1AJ | 777 |
| 44 | | 2003 | 0200 1724 | | RJM SCP CHECK SCP ACTIVITY | 1AJ | 778 |
| 45 | | 2005 | 5000 1111 | | LDM JTFG | 1AJ | 779 |
| 46 | | 2007 | 2200 3000 | | LPC 3000 | 242L642 | 10 |
| 47 | | | | | LMK NOTM*1000 | 242L642 | 11 |
| 48 | | 2011 | 0520 | | NJN TER3 IF TERMINATION IN PROGRESS | 242L642 | 12 |
| 49 | | 2012 | 5000 1110 | | LDM JTOP | 1AJ | 782 |
| 50 | | 2014 | 1101 | | LMN SUJT | 1AJ | 783 |
| 51 | | 2015 | 0507 | | NJN TER2 IF NOT SUSPEND TERMINATION OPTION | 1AJ | 784 |
| 52 | | 2016 | 5000 1107 | | LDM JBCS | 1AJ | 785 |
| 53 | | 2020 | 1101 | | LMK DTCS | 1AJ | 786 |
| 54 | | 2021 | 0443 | | TER1 ZJP SUS IF DETACHED INTERACTIVE JOB | 1AJ | 787 |
| 55 | | | | | | | |
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| 2022 | 1103 | | | LMK | OLCS&DTCS | | 1AJ | 788 | |
| 2023 | 0475 | | | ZJN | TER1 | IF ON-LINE INTERACTIVE JOB | 1AJ | 789 | |
| 2024 | 2036 | 0112 | | EXECUTE | 3AJ | INITIATE JOB TERMINATION | 1AJ | 790 | |
| 2030 | 0526 | | | NJN | XCS | IF COMMANDS TO BE EXECUTED | V23L617 | 38 | |
| | | | | | | | 1AJ | 792 | |
| | | | | * | | COMPLETE JOB TERMINATION PROCESSING. | 1AJ | 793 | |
| | | | | | | | 1AJ | 794 | |
| 2031 | 0200 | 2223 | | TER3 | RJM | RLS | RELEASE CM/EXTENDED MEMORY STORAGE | NS2044 | 6 |
| 2033 | 2036 | 0113 | | EXECUTE | 3AK | COMPLETE JOB TERMINATION | NS2044 | 7 | |
| 2037 | 1407 | | | TER4 | LDK | CCPS+DPPS+CJES | SET *JACM* OPTIONS | NS2044 | 8 |
| 2040 | 3411 | | | | STD | CM+1 | | 1AJ | 801 |
| 2041 | 1463 | | | | MONITOR | JACM | | 1AJ | 802 |
| 2044 | 0100 | 0257 | | LJM | PPR | EXIT TO PP RESIDENT | 1AJ | 803 | |
| | | | | | | | 243L647 | 2 | |
| 2046 | 1400 | | | TER5 | LDN | 0 | | 243L647 | 3 |
| | | | | * | LDN | 1 | (180 CLASS MACHINE) | 243L647 | 4 |
| | | 2046 | | TERA | EQU | *-1 | | 243L647 | 5 |
| 2047 | 0467 | | | | ZJN | TER4 | IF NOT 180 CLASS MACHINE | 243L647 | 6 |
| 2050 | 1426 | | | | LDK | CKPS | FORCE SYSTEM CHECKPOINT | 243L647 | 7 |
| 2051 | 3412 | | | | STD | CM+2 | | 243L647 | 8 |
| 2052 | 1420 | | | | MONITOR | SEQM | | 243L647 | 9 |
| 2055 | 0361 | | | | UJN | TER4 | SET *JACM* OPTIONS | 243L647 | 10 |
| | | | | | | | | | |
| | | | | ** | | XCS - EXECUTE COMMAND. | V23L617 | 39 | |
| | | | | * | | | 1AJ | 806 | |
| | | | | * | | LOADS AND EXECUTES OVERLAY *TCS* TO PROCESS CONTROL | 1AJ | 807 | |
| | | | | * | | COMMAND. | V23L617 | 40 | |
| | | | | * | | | 1AJ | 809 | |
| | | | | * | | USES CM - CM+4. | NS2719 | 22 | |
| | | | | * | | | NS2358 | 5 | |
| | | | | * | | CALLS RJF, SCP, *TCS*. | NS2719 | 23 | |
| | | | | * | | | 1AJ | 813 | |
| | | | | * | | MACROS EXECUTE. | 1AJ | 814 | |
| | | | | | | | 1AJ | 815 | |
| | | | | | | | 1AJ | 816 | |
| 2056 | | | | XCS | BSS | 0 | ENTRY | 1AJ | 817 |
| 2056 | 1466 | | | | LDN | ZERL | CLEAR *SPCW* WORD | NS2719 | 24 |
| 2057 | 6010 | | | | CRD | CM | | 1AJ | 819 |
| 2060 | 3074 | | | | LDD | CP | | 1AJ | 820 |
| 2061 | 2100 | 0106 | | | ADK | SPCW | | 1AJ | 821 |
| 2063 | 6210 | | | | CWD | CM | | 1AJ | 822 |
| 2064 | 0200 | 1724 | | | RJM | SCP | CHECK SCP STATUS | 1AJ | 823 |
| 2066 | 0200 | 1707 | | | RJM | RJF | RETURN JOB STEP PRIVATE FILES | NS2719 | 25 |
| 2070 | 2024 | 0323 | | | EXECUTE | TCS | EXECUTE *TCS* | 1AJ | 824 |

** ASSEMBLY OPTIONS FOR EXECUTABLE COMMON DECKS.

1AJ 826
1AJ 827
1AJ 828
1AJ 829
1AJ 830
1AJ 831
1AJ 832

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|---|---|-------|-----|---|--|-----|-----|
| 1 | 1 | EJT\$ | EQU | 1 | ASSEMBLE EJT ADDRESSING (COMPGFP) | 1AJ | 829 |
| 2 | 1 | FNT\$ | EQU | 1 | ASSEMBLE FNT ADDRESSING (COMPGFP) | 1AJ | 830 |
| 3 | 1 | IFP\$ | EQU | 1 | ASSEMBLE REMOTE INITIALIZATION (COMPGFP) | 1AJ | 831 |
| 4 | 1 | QFT\$ | EQU | 1 | ASSEMBLE QFT ADDRESSING (COMPGFP) | 1AJ | 832 |

** EXECUTABLE COMMON DECKS.

1AJ 834
1AJ 835
1AJ 836
COMPAST 1
COMPGFP 1
COMPRLS 1

2074
2170
2212

CTEXT COMPAST - ACCESS SUBSYSTEM TABLES.
CTEXT COMPGFP - MANAGED TABLE PROCESSOR.
CTEXT COMPRLS - RELEASE STORAGE.

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| LINE | ADDRESS | OPERATOR | USE | OVERLAY | DESCRIPTION | 1AJ | 842 |
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| | 2300 | E1AJ | EQU | **5 | | 1AJ | 843 |
| 1 | 2576 | | ERRNG | BFMS-E1AJ-ZSTL | CHECK LENGTH OF *0ST* | 1AJ | 844 |
| 2 | | | | | | 1AJ | 845 |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | ** | PRS | - PRESET PROGRAM | | 1AJ | 847 |
| 7 | | * | | | | 1AJ | 848 |
| 8 | | * | ENTRY | (IR+2) | = FUNCTION CODE. | 1AJ | 849 |
| 9 | | * | | | | 1AJ | 850 |
| 10 | | * | EXIT | (A) | = FUNCTION PROCESSOR ADDRESS. | 1AJ | 851 |
| 11 | | * | | (ADJB) | = COMMANDS PENDING FLAG. | NS2323 | 19 |
| 12 | | * | | (CRQF) | = CHARGE REQUIRED STATUS. | 1AJ116 | 6 |
| 13 | | * | | (EF) | = JOB ERROR FLAG. | 1AJ | 852 |
| 14 | | * | | (FS) | = JOB ACTIVITY FLAGS. | 1AJ | 853 |
| 15 | | * | | (JTFG) | = JOB TERMINATION FLAGS. | 1AJ | 854 |
| 16 | | * | | (JTOP) | = JOB TERMINATION OPTION. | 1AJ | 855 |
| 17 | | * | | (JO) | = JOB EJT ORDINAL. | 1AJ | 856 |
| 18 | | * | | (PRCF) | = PROLOGUE/EPILOGUE CONTROL FLAGS. | NS2323 | 20 |
| 19 | | * | | (RF) | = REPRIEVE OPTION FLAGS. | 1AJ | 857 |
| 20 | | * | | (RO) | = ROLLOUT FLAG. | 1AJ | 858 |
| 21 | | * | | (JBCS) | = JOB CONNECTION STATUS. | 1AJ | 859 |
| 22 | | * | | (JBSC) | = JOB SERVICE CLASS. | 1AJ | 860 |
| 23 | | * | | (JBOT) | = JOB ORIGIN TYPE. | 1AJ | 861 |
| 24 | | * | | (SCAF) | = SUBSYSTEM ACTIVITY FLAGS. | 1AJ | 862 |
| 25 | | * | | (TSTN) | = INTERACTIVE JOB TERMINAL NUMBER. | V23L617 | 41 |
| 26 | | * | | | = ZERO IF NOT INTERACTIVE JOB. | V23L617 | 42 |
| 27 | | * | | (CSRC) | = 1, IF EXTENDED REPRIEVE PROCESSING. | 1AJ98 | 4 |
| 28 | | * | | | | 1AJ | 865 |
| 29 | | * | USES | FS, RF, RO, AB - AB+4, CM - CM+4, CN - CN+4, | | 1AJ116 | 7 |
| 30 | | * | | SP - SP+4, T1 - T5. | | 1AJ116 | 8 |
| 31 | | * | | | | 1AJ | 868 |
| 32 | | * | CALLS | CJS, IFP, SCS, SEF, SPF, STS. | | NS2323 | 21 |
| 33 | | * | | | | 1AJ | 870 |
| 34 | | * | MACROS | MONITOR, SFA. | | 1AJ | 871 |
| 35 | | | | | | 1AJ | 872 |
| 36 | | | | | | 1AJ | 873 |
| 37 | 2273 | 0100 2273 | PRS | SUBR | ENTRY/EXIT | 1AJ | 874 |
| 38 | 2275 | 0200 3106 | | RJM | IFP | 1AJ | 875 |
| 39 | 2277 | 0200 2632 | | RJM | CJS | 1AJ29 | 3 |
| 40 | 2301 | 3074 | | LDD | CP | 1AJ | 876 |
| 41 | 2302 | 1620 | | ADN | STSW | 1AJ | 877 |
| 42 | 2303 | 6010 | | CRD | CM | 1AJ | 878 |
| 43 | 2304 | 1607 | | ADK | EOJW-STSW | 1AJ | 879 |
| 44 | 2305 | 6025 | | CRD | CN | 1AJ | 880 |
| 45 | 2306 | 1704 | | ADK | FLSW-EOJW | 242L642 | 14 |
| 46 | 2307 | 6032 | | CRD | AB | 242L642 | 15 |
| 47 | 2310 | 1646 | | ADK | EECW-FLSW | 242L642 | 16 |
| 48 | 2311 | 6001 | | CRD | T1 | 1AJ | 882 |
| 49 | 2312 | 1602 | | ADK | CSPW-EECW | V23L617 | 43 |
| 50 | 2313 | 6040 | | CRD | SP | NS22000 | 17 |
| 51 | 2314 | 3032 | | LDD | AB | 242L642 | 17 |
| 52 | 2315 | 0505 | | NJN | PRS0 | 242L642 | 18 |
| 53 | 2316 | 5400 1606 | | STM | ENJB | 242L642 | 19 |
| 54 | 2320 | 5600 1226 | | AOM | ADJC | 242L642 | 20 |

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| 2322 | 3010 | | PRS0 | LDD | CM | SET JOB ACTIVITY | 242L642 | 21 |
| 2323 | 1067 | | | SHN | -10 | | 1AJ | 892 |
| 2324 | 3420 | | | STD | FS | | 1AJ | 893 |
| 2325 | 3014 | | | LDD | CM+4 | SET RECALL/TAPE ACTIVITY | 1AJ | 894 |
| 2326 | 1073 | | | SHN | -4 | | 1AJ | 895 |
| 2327 | 1217 | | | LPN | 17 | | 1AJ | 896 |
| 2330 | 3520 | | | RAD | FS | | 1AJ | 897 |
| 2331 | 3012 | | | LDD | CM+2 | SET ROLLOUT FLAG | 1AJ | 898 |
| 2332 | 1201 | | | LPN | 1 | | 1AJ | 899 |
| 2333 | 3447 | | | STD | R0 | | 1AJ | 900 |
| 2334 | 3025 | | | LDD | CN | SET JOB TERMINATION FLAGS | 1AJ | 901 |
| 2335 | 1071 | | | SHN | -6 | | 241L630 | 1 |
| 2336 | 1237 | | | LPN | 37 | | 242L642 | 22 |
| 2337 | 5400 | 1111 | | STM | JTFG | | 1AJ | 902 |
| 2341 | 1074 | | | SHN | 0-11+6 | SET JOB TERMINATION OPTION | 241L630 | 2 |
| 2342 | 1203 | | | LPN | 3 | | 242L642 | 23 |
| 2343 | 5400 | 1110 | | STM | JTOP | | 1AJ | 905 |
| 2345 | 3043 | | | LDD | SP+3 | CHECK COMMAND BUFFER | NS2323 | 22 |
| 2346 | 3344 | | | LMD | SP+4 | | NS2323 | 23 |
| 2347 | 0513 | | | NJN | PRS0.1 | IF NOT EMPTY | NS2323 | 24 |
| 2350 | 3041 | | | LDD | SP+1 | CHECK RECORD STATUS | NS2323 | 25 |
| 2351 | 1006 | | | SHN | 21-13 | | NS2323 | 26 |
| 2352 | 0610 | | | PJN | PRS0.1 | IF NOT EOR | NS2323 | 27 |
| 2353 | 3074 | | | LDD | CP | CHECK FOR *TCS* EXECUTE COMMAND | NS2323 | 28 |
| 2354 | 1675 | | | ADK | RFCW | | NS2323 | 29 |
| 2355 | 6025 | | | CRD | CN | | NS2323 | 30 |
| 2356 | 3030 | | | LDD | CN+3 | | NS2323 | 31 |
| 2357 | 1377 | | | SCN | 77 | | NS2323 | 32 |
| 2360 | 3127 | | | ADD | CN+2 | | NS2323 | 33 |
| 2361 | 0403 | | | ZJN | PRS1 | IF NOT EXECUTE COMMAND FROM CM | NS2323 | 34 |
| 2362 | 5600 | 1222 | PRS0.1 | AOM | ADJB | SET COMMANDS PENDING | NS2323 | 35 |
| 2364 | 0200 | 3006 | PRS1 | RJM | SEF | SET ERROR FLAG | 1AJ96 | 1 |
| 2366 | 3040 | | | LDD | SP | SET CHARGE REQUIRED STATUS | 1AJ116 | 9 |
| 2367 | 1204 | | | LPN | 4 | | 1AJ116 | 10 |
| 2370 | 5400 | 1251 | | STM | CRQF | | 1AJ116 | 11 |
| 2372 | 0200 | 3226 | | RJM | PQF | PROCESS QUEUED FUNCTIONS | 253L688 | 54 |
| 2374 | 1400 | | | LDN | 0 | | 1AJ96 | 2 |
| 2375 | 3411 | | | STD | CM+1 | | 1AJ96 | 3 |
| 2376 | 3074 | | | LDD | CP | | 1AJ96 | 4 |
| 2377 | 1651 | | | ADN | SRUW | | 1AJ96 | 5 |
| 2400 | 6032 | | | CRD | AB | | 1AJ96 | 6 |
| 2401 | 3032 | | | LDD | AB | | 1AJ96 | 7 |
| 2402 | 1014 | | | SHN | 21-5 | | 1AJ96 | 8 |
| 2403 | 0612 | | | PJN | PRS2 | IF IGNORE RESOURCE LIMITS NOT SET | 1AJ96 | 9 |
| 2404 | 3046 | | | LDD | EF | CHECK FOR RESOURCE LIMIT ERROR | 1AJ96 | 10 |
| 2405 | 1115 | | | LMN | TLET | | 1AJ96 | 11 |
| 2406 | 0503 | | | ZJP | PRS2.2 | IF TIME LIMIT | 1AJ96 | 12 |
| 2411 | 1135 | | | LMN | SRET&TLET | | 1AJ96 | 13 |
| 2412 | 0503 | | | ZJP | PRS2.2 | IF SRU LIMIT | 1AJ96 | 14 |
| | | | | | | | NS2266 | 1 |
| | | | | * | | IF EXTENDED REPRIEVE + *SSJ=* + INTERRUPT PROCESSOR ACTIVE, | NS2266 | 2 |
| | | | | * | | OR IF OVERRIDE REQUIRED SET, THE JOB MAY ONLY BE DROPPED | NS2266 | 3 |
| | | | | * | | VIA *ORET*. ERROR FLAGS *ODET*, *OKET*, *RRET*, | 242L642 | 24 |
| | | | | * | | *TIET* AND *TAET* WILL BE IGNORED. | NS2266 | 5 |
| | | | | | | | NS2266 | 6 |
| 2415 | 3046 | | PRS2 | LDD | EF | CHECK ERROR FLAG | 1AJ96 | 15 |
| 2416 | 1124 | | | LMK | ODET | | 242L642 | 25 |

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| 2417 | 0413 | | ZJN | PRS2.1 | IF *ODET* ERROR FLAG | NS2266 | 11 |
| 2420 | 1111 | | LMK | OKET&ODET | | NS2266 | 12 |
| 2421 | 0411 | | ZJN | PRS2.1 | IF *OKET* ERROR FLAG | NS2266 | 13 |
| 2422 | 1101 | | LMK | RRET&OKET | | NS2266 | 14 |
| 2423 | 0407 | | ZJN | PRS2.1 | IF *RRET* ERROR FLAG | NS2266 | 15 |
| 2424 | 1135 | | LMK | TIET&RRET | | NS2266 | 16 |
| 2425 | 0405 | | ZJN | PRS2.1 | IF *TIET* ERROR FLAG | NS2266 | 17 |
| 2426 | 1103 | | LMK | TAET&TIET | | NS2266 | 18 |
| 2427 | 0403 | | NJP | PRS2.3 | IF NOT *TAET* ERROR FLAG | NS2266 | 19 |
| 2432 | 3074 | PRS2.1 | LDD | CP | CHECK OVERRIDE REQUIRED | 1AJ96 | 16 |
| 2433 | 1630 | | ADN | SNSW | | 1AJ23 | 8 |
| 2434 | 6032 | | CRD | AB | | 1AJ23 | 9 |
| 2435 | 3032 | | LDD | AB | | 1AJ23 | 10 |
| 2436 | 1010 | | SHN | 21-11 | | 1AJ23 | 11 |
| 2437 | 0715 | | MJN | PRS2.2 | IF OVERRIDE REQUIRED SET | 1AJ23 | 12 |
| 2440 | 3001 | | LDD | T1 | | 1AJ23 | 13 |
| 2441 | 1007 | | SHN | 21-12 | | 1AJ23 | 14 |
| 2442 | 0626 | | PJN | PRS2.3 | IF EXTENDED REPRIEVE NOT ACTIVE | 1AJ23 | 15 |
| 2443 | 1001 | | SHN | 21-11-21+12 | | 1AJ23 | 16 |
| 2444 | 0624 | | PJN | PRS2.3 | IF INTERRUPT PROCESSOR NOT ACTIVE | 1AJ23 | 17 |
| 2445 | 3074 | | LDD | CP | | 1AJ23 | 18 |
| 2446 | 2100 0105 | | ADK | SEPW | | 1AJ23 | 19 |
| 2450 | 6032 | | CRD | AB | | 1AJ23 | 20 |
| 2451 | 3032 | | LDD | AB | | 1AJ23 | 21 |
| 2452 | 1017 | | SHN | 21-2 | | 1AJ23 | 22 |
| 2453 | 0615 | | PJN | PRS2.3 | IF NOT *SSJ=* | 1AJ23 | 23 |
| 2454 | 3056 | PRS2.2 | LDD | FL | | 1AJ23A | 1 |
| 2455 | 0413 | | ZJN | PRS2.3 | IF NO FL ASSIGNED | 1AJ23A | 2 |
| 2456 | 1400 | | LDN | ** | CHECK FOR PRE-INITIAL JOB STATUS | 1AJ82 | 1 |
| | | 2456 PRSA | EQU | *-1 | (JOB STATUS SET BY *CJS*) | 1AJ82 | 2 |
| | | | LMK | PRJS*2 | | 1AJ82 | 3 |
| 2457 | 0411 | | ZJN | PRS2.3 | IF PRE-INITIAL JOB STATUS | 1AJ82 | 4 |
| 2460 | 1454 | | MONITOR | CEFM | CLEAR ERROR FLAG | 1AJ23A | 3 |
| 2463 | 1471 | | MONITOR | RCPM | REQUEST THE CPU | 1AJ23 | 29 |
| 2466 | 0100 1571 | | LJM | DPP | DROP PP | 1AJ23 | 30 |
| | | | | | | 1AJ | 909 |
| | | * | | | SET REPRIEVE STATUS. | 1AJ | 910 |
| | | | | | | 1AJ | 911 |
| 2470 | 3001 | PRS2.3 | LDD | T1 | CHECK EXTENDED REPRIEVE ACTIVE | 1AJ23 | 31 |
| 2471 | 1007 | | SHN | 21-12 | | 1AJ | 913 |
| 2472 | 0605 | | PJN | PRS3 | IF NO EXTENDED REPRIEVE | 1AJ | 914 |
| 2473 | 5600 1357 | | AOM | CSRC | INDICATE EXTENDED REPRIEVE PRESENT | 1AJ98 | 5 |
| 2475 | 3002 | | LDD | T1+1 | GET EXTENDED REPRIEVE MASK BITS | 1AJ | 915 |
| 2476 | 0306 | | UJN | PRS5 | SET REPRIEVE FLAGS | 1AJ | 916 |
| | | | | | | 1AJ | 917 |
| 2477 | 3002 | PRS3 | LDD | T1+1 | | 1AJ | 918 |
| 2500 | 1006 | | SHN | 21-13 | | 1AJ | 919 |
| 2501 | 0602 | | PJN | PRS4 | IF POSSIBLE REPRIEVE OPTIONS | 1AJ | 920 |
| 2502 | 1400 | | LDN | 0 | | 1AJ | 921 |
| 2503 | 1071 | PRS4 | SHN | -6 | SET REPRIEVE ERROR OPTIONS | 1AJ | 922 |
| 2504 | 3465 | PRS5 | STD | RF | STORE REPRIEVE FLAGS | 1AJ | 923 |
| | | | | | | 1AJ | 924 |
| | | * | | | SET SCP CONNECTION STATUS. | 1AJ | 925 |
| | | | | | | 1AJ | 926 |
| 2505 | 0200 2724 | | RJM | SCS | GET SCP CONNECTION STATUS | 1AJ | 927 |
| 2507 | 5400 1113 | | STM | SCAF | STORE SCP ACTIVITY FLAGS | 1AJ | 928 |
| | | | | | | 1AJ | 929 |

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| Line | Job ID | Job Name | Code | Address | Description | Address | Code |
|------|--------|-----------|---------|--|-----------------------------------|---------|------|
| | | | * | SET JOB ORIGIN TYPE AND SERVICE CLASS. | | 1AJ | 930 |
| | | | | | | 1AJ | 931 |
| | | | | | | 1AJ | 932 |
| 1 | 2511 | 3045 | SFA | EJT,JO | SET EJT ADDRESS | NS22000 | 25 |
| 2 | 2514 | 1601 | ADK | SCHE | READ JOB TERMINATION STATUS | NS22000 | 26 |
| 3 | 2515 | 6025 | CRD | CN | | 1AJ58 | 1 |
| 4 | 2516 | 1602 | ADK | //SCLE-//SCHE | READ SERVICE CLASS WORD | NS22000 | 28 |
| 5 | 2517 | 6010 | CRD | CM | | NS22000 | 29 |
| 6 | 2520 | 3027 | LDD | CN+2 | | 242L642 | 26 |
| 7 | 2521 | 2200 3000 | LPC | 3000 | | NS22000 | 32 |
| 8 | 2523 | 5500 1111 | RAM | JTFG | SET JOB TERMINATION STATUS | 1AJ | 935 |
| 9 | 2525 | 3010 | LDD | CM | SET JOB ORIGIN TYPE | 1AJ | 936 |
| 10 | 2526 | 1217 | LPN | 17 | | 1AJ | 937 |
| 11 | 2527 | 5400 1106 | STM | JBOT | | 1AJ | 938 |
| 12 | 2531 | 1706 | SBN | MXOT | VALIDATE ORIGIN TYPE | 1AJ | 939 |
| 13 | 2532 | 0622 | PJN | PRS7 | IF UNIDENTIFIED ORIGIN TYPE | 1AJ | 940 |
| 14 | 2533 | 3010 | LDD | CM | SET JOB SERVICE CLASS | 1AJ | 941 |
| 15 | 2534 | 1071 | SHN | -6 | | 1AJ | 942 |
| 16 | 2535 | 5400 1105 | STM | JBSC | | 1AJ | 943 |
| 17 | 2537 | 1724 | SBK | MXSC | VALIDATE SERVICE CLASS | 1AJ | 944 |
| 18 | 2540 | 0614 | PJN | PRS7 | IF UNIDENTIFIED SERVICE CLASS | V23L617 | 44 |
| 19 | 2541 | 0200 3056 | RJM | STS | SET INTERACTIVE PARAMETERS | NS2323 | 36 |
| 20 | 2543 | 0200 2574 | RJM | SPF | SET PROLOGUE/EPILOGUE FLAGS | 1AJ | 946 |
| 21 | | | * | EXIT TO MAIN PROGRAM WITH (A) = PROCESSOR ADDRESS. | | 1AJ | 947 |
| 22 | | | | | | 1AJ | 948 |
| 23 | 2545 | 3052 | LDD | IR+2 | CHECK FUNCTION CODE | 1AJ | 949 |
| 24 | 2546 | 1704 | SBN | FUNCL | | 1AJ | 950 |
| 25 | 2547 | 0605 | PJN | PRS7 | IF INCORRECT FUNCTION CODE | V23L617 | 45 |
| 26 | 2550 | 5052 2567 | LDM | FUNC,IR+2 | | 1AJ | 952 |
| 27 | 2552 | 0100 2273 | LJM | PRXS | RETURN | 1AJ | 953 |
| 28 | | | | | | 1AJ | 954 |
| 29 | | | * | RETURN TERMINATION PROCESSOR ADDRESS IF ERROR. | | 1AJ | 955 |
| 30 | | | | | | 1AJ | 956 |
| 31 | 2554 | 1400 | PRS7 | LDN | 0 | 1AJ97 | 1 |
| 32 | 2555 | 3412 | STD | CM+2 | | 1AJ97 | 2 |
| 33 | 2556 | 2000 2556 | LDC | * | SET ADDRESS WHERE ERROR OCCURED | 1AJ97 | 3 |
| 34 | 2560 | 3411 | STD | CM+1 | | 1AJ97 | 4 |
| 35 | 2561 | 1421 | MONITOR | CHGM | CONDITIONALLY HANG PP | 1AJ97 | 5 |
| 36 | 2564 | 2000 2003 | LDC | TER | SET TERMINATION PROCESSOR ADDRESS | 1AJ97 | 6 |
| 37 | 2566 | 0363 | UJN | PRS6 | RETURN | 1AJ | 958 |
| 38 | | | | | | | |
| 39 | | | | | | | |
| 40 | | | | | | | |
| 41 | | | | | | | |
| 42 | | | ** | FUNC - TABLE OF FUNCTION CODE PROCESSORS. | | 1AJ | 960 |
| 43 | | | | | | 1AJ | 961 |
| 44 | | | | | | 1AJ | 962 |
| 45 | 2567 | | FUNC | BSS | 0 | 1AJ | 963 |
| 46 | L 0 | | | LOC | 0 | 1AJ | 964 |
| 47 | | | | | | 1AJ | 965 |
| 48 | L 0 | 1270 | CON | CSR | *CPUMTR* CALL | 1AJ | 966 |
| 49 | L 1 | 1115 | CON | SCH | SCHEDULER CALL | 1AJ | 967 |
| 50 | L 2 | 1270 | CON | CSR | *DIS* CALL | 1AJ | 968 |
| 51 | L 3 | 1131 | CON | PPC | OTHER PP CALL | 1AJ | 969 |
| 52 | | | | | | 1AJ | 970 |
| 53 | 2573 | | | LOC | *0 | 1AJ | 971 |
| 54 | | | 4 | FUNCL | *-FUNC | 1AJ | 972 |
| 55 | | | | | | | |
| 56 | | | | | | | |
| 57 | | | | | | | |
| 58 | | | | | | | |
| 59 | | | | | | | |
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| | ** | | | SPF - SET PROJECT PROLOGUE/EPILOGUE CONTROL FLAGS. | | NS2323 | 38 |
| | * | | | | | NS22000 | 36 |
| | * | | | EXIT (PRCF) = CONTROL FLAGS. | | NS2323 | 39 |
| | * | | | | | NS22000 | 39 |
| | * | | | USES T1, CM - CM+4, CN - CN+4. | | NS2323 | 40 |
| | | | | | | NS22000 | 43 |
| | | | | | | NS22000 | 44 |
| 2573 | | 0100 2573 | SPF | SUBR | ENTRY/EXIT | NS2323 | 41 |
| 2575 | | 3074 | | LDD CP | READ PROLOGUE/EPILOGUE CONTROL | NS22000 | 48 |
| 2576 | | 1627 | | ADN EOJW | | NS22000 | 49 |
| 2577 | | 6010 | | CRD CM | | NS22000 | 50 |
| 2600 | | 1660 | | ADN JCDW-EOJW | | NS2323 | 42 |
| 2601 | | 6025 | | CRD CN | | NS22000 | 54 |
| 2602 | | 3012 | | LDD CM+2 | | NS22000 | 55 |
| 2603 | | 1071 | | SHN -6 | | NS2323 | 43 |
| 2604 | | 1207 | | LPN 7 | | NS2323 | 44 |
| 2605 | | 3400 | | STD T0 | | NS2323 | 45 |
| 2606 | | 0464 | | ZJN SPFX | IF NO CONTROLS ACTIVE | NS2323 | 46 |
| 2607 | | 3027 | | LDD CN+2 | CHECK PROCEDURE NESTING LEVEL | NS2323 | 47 |
| 2610 | | 1277 | | LPN 77 | | NS2323 | 48 |
| 2611 | | 3401 | | STD T1 | | NS22000 | 58 |
| 2612 | | 3012 | | LDD CM+2 | | NS22000 | 59 |
| 2613 | | 1277 | | LPN 77 | | NS2323 | 49 |
| 2614 | | 3201 | | SBD T1 | | NS2323 | 50 |
| 2615 | | 0604 | | PJN SPF1 | IF PROLOGUE OR EPILOGUE *REVERT* | NS2323 | 51 |
| 2616 | | 5000 1222 | | LDM ADJB | | NS2323 | 52 |
| 2620 | | 0552 | | NJN SPFX | IF PENDING COMMANDS | NS2323 | 53 |
| 2621 | | 3000 | SPF1 | LDD T0 | SET OPTION | NS2323 | 54 |
| 2622 | | 5400 1112 | | STM PRCF | | NS2323 | 55 |
| 2624 | | 0346 | | UJN SPFX | EXIT | NS2323 | 56 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | ** | | | CJS - CHECK JOB STATUS FOR EXCEEDED RESOURCE LIMITS. | | 1AJ29 | 5 |
| | * | | | | | 1AJ29 | 6 |
| | * | | | EXIT (JO) = JOB EJT ORDINAL. | | 1AJ29 | 7 |
| | * | | | (JBCS) = JOB CONNECTION STATUS. | | 1AJ29 | 8 |
| | * | | | IF RESOURCE LIMITS HAVE BEEN REACHED, THEN - | | 1AJ29 | 9 |
| | * | | | IF INTERACTIVE JOB, ISSUE ROLLOUT REQUEST, | | 1AJ29 | 10 |
| | * | | | ELSE, CHANGE ERROR FLAG IN CP AREA. | | 1AJ29 | 11 |
| | * | | | | | 1AJ29 | 12 |
| | * | | | USES JO, AB - AB+4, CM - CM+4, CN - CN+4. | | 1AJ29 | 13 |
| | * | | | | | 1AJ29 | 14 |
| | * | | | MACROS MONITOR, SFA. | | 1AJ29 | 15 |
| | | | | | | 1AJ29 | 16 |
| | | | | | | 1AJ29 | 17 |
| 2625 | | 1422 | CJS5 | MONITOR HNGM | | 1AJ29 | 18 |
| 2630 | | 0374 | | UJN CJS5 | HANG PP | 1AJ29 | 19 |
| | | | | | | 1AJ29 | 20 |
| 2631 | | 0100 2631 | CJS | SUBR | ENTRY/EXIT | 1AJ29 | 21 |
| 2633 | | 3074 | | LDD CP | GET RESOURCE LIMIT FLAGS | 1AJ29 | 22 |
| 2634 | | 1620 | | ADK STSW | | 1AJ29 | 23 |
| 2635 | | 6032 | | CRD AB | | 1AJ29 | 24 |
| 2636 | | 1631 | | ADK SRUW-STSW | | 1AJ29 | 25 |
| 2637 | | 6025 | | CRD CN | | 1AJ29 | 26 |
| 2640 | | 1621 | | ADK TFSW-SRUW | GET JOB EJT ORDINAL | 1AJ29 | 27 |

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| 2641 | 6010 | | CRD | CM | | 1AJ29 | 28 | |
| 2642 | 3010 | | LDD | CM | | 1AJ29 | 29 | |
| 2643 | 0461 | | ZJN | CJS5 | IF NO EJT ORDINAL PRESENT | 1AJ29 | 30 | |
| 2644 | 3445 | | STD | J0 | SAVE EJT ORDINAL | 1AJ29 | 31 | |
| 2645 | 0200 | 2174 | SFA | EJT | | 1AJ29 | 32 | |
| | | | ADK | JSNE | | 1AJ29 | 33 | |
| 2647 | 6010 | | CRD | CM | | 1AJ29 | 34 | |
| 2650 | 3014 | | LDD | CM+4 | GET JOB CONNECTION STATUS | 1AJ29 | 35 | |
| 2651 | 1070 | | SHN | -7 | | 1AJ29 | 36 | |
| 2652 | 1217 | | LPN | 17 | | 1AJ29 | 37 | |
| 2653 | 5400 | 1107 | STM | JBCS | SAVE CONNECTION STATUS | 1AJ29 | 38 | |
| 2655 | 3014 | | LDD | CM+4 | SAVE JOB STATUS | 1AJ82 | 5 | |
| 2656 | 1276 | | LPN | 76 | | 1AJ82 | 6 | |
| 2657 | 5500 | 2456 | RAM | PRSA | | 1AJ82 | 7 | |
| 2661 | 3033 | | LDD | AB+1 | | 1AJ29 | 39 | |
| 2662 | 0546 | | NJN | CJSX | IF ERROR FLAG SET IN CONTROL POINT AREA | 1AJ29 | 40 | |
| 2663 | 3025 | | LDD | CN | | 1AJ29 | 41 | |
| 2664 | 1014 | | SHN | 21-5 | | 1AJ96A | 1 | |
| 2665 | 0743 | | MJN | CJSX | IF IGNORE RESOURCE LIMITS SET | 1AJ96A | 2 | |
| 2666 | 1224 | | LPN | 24 | | 1AJ96A | 3 | |
| 2667 | 0441 | | ZJN | CJSX | IF RESOURCE LIMITS NOT EXCEEDED | 1AJ29 | 44 | |
| 2670 | 1204 | | LPN | 4 | | 1AJ96A | 4 | |
| 2671 | 0404 | | ZJN | CJS1 | IF SRU LIMIT NOT EXCEEDED | 1AJ29 | 46 | |
| 2672 | 1403 | | LDN | SRET-TLET | SET SRU LIMIT EXCEEDED FLAG | 1AJ29 | 47 | |
| 2673 | 5500 | 2715 | RAM | CJSA | | 1AJ29 | 48 | |
| 2675 | 1466 | | CJS1 | LDK | ZERL | CLEAR MONITOR REQUEST WORD | 1AJ29 | 49 |
| 2676 | 6010 | | CRD | CM | | 1AJ29 | 50 | |
| | | | | | | 1AJ29 | 51 | |
| | | | * | | CHECK FOR INTERACTIVE JOB. | 1AJ29 | 52 | |
| | | | | | | 1AJ29 | 53 | |
| 2677 | 5000 | 1107 | LDM | JBCS | CONNECTION STATUS | 1AJ29 | 54 | |
| 2701 | 1101 | | LMN | DTCS | | 1AJ29 | 55 | |
| 2702 | 0404 | | ZJN | CJS2 | IF DETACHED INTERACTIVE JOB | 1AJ29 | 56 | |
| 2703 | 1103 | | LMN | OLCS&DTCS | | 1AJ29 | 57 | |
| 2704 | 0511 | | NJN | CJS4 | IF NOT INTERACTIVE JOB | 1AJ29 | 58 | |
| 2705 | 1410 | | LDN | ROSR&ROSU | SELECT *ROCM* SCHEDULER ROLLOUT | 1AJ29 | 59 | |
| 2706 | 1110 | | CJS2 | LMN | ROSU | SELECT *ROCM* SUSPEND OPTION | 1AJ29 | 60 |
| 2707 | 3411 | | STD | CM+1 | | 1AJ29 | 61 | |
| 2710 | 1476 | | MONITOR | ROCM | ISSUE ROLLOUT REQUEST | 1AJ29 | 62 | |
| 2713 | 0100 | 2631 | CJS3 | LJM | CJSX | RETURN | 1AJ29 | 63 |
| | | | | | | 1AJ29 | 64 | |
| 2715 | 1415 | | CJS4 | LDN | TLET | SET TIME LIMIT ERROR FLAG | 1AJ29 | 65 |
| | | | * | LDN | SRET | (SRU LIMIT ERROR FLAG) | 1AJ29 | 66 |
| | | 2715 | CJSA | EQU | *-1 | | 1AJ29 | 67 |
| 2716 | 3411 | | STD | CM+1 | | 1AJ29 | 68 | |
| 2717 | 1454 | | MONITOR | CEFM | CHANGE ERROR FLAG | 1AJ29 | 69 | |
| 2722 | 0370 | | UJN | CJS3 | RETURN | 1AJ29 | 70 | |

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| Line | Address | Subroutine | Code | Operation | Description | Address | Count | |
|------|---------|------------|--------|--------------------------------------|---|--------------------------|-------|------|
| | | ** | SCS | | SET SCP CONNECTION STATUS. | 1AJ | 975 | |
| | | * | | | | 1AJ | 976 | |
| | | * | EXIT | (A) | SCP CONNECTION STATUS FLAG BITS. | 1AJ | 977 | |
| | | * | | | | 1AJ | 978 | |
| | | * | USES | T8, CM - CM+4, CW - CW+4, AB - AB+4. | | NS2738 | 4 | |
| 1 | | | | | | 1AJ | 982 | |
| 2 | | | | | | 1AJ | 983 | |
| 3 | | | | | | 1AJ | 984 | |
| 4 | 2723 | 0100 2723 | SCS | SUBR | ENTRY/EXIT | 1AJ | 985 | |
| 5 | | | * | | CHECK FOR CONNECTION TO SYSTEM CONTROL POINT. | 1AJ | 986 | |
| 6 | | | | | | 1AJ | 987 | |
| 7 | | | | | | 1AJ | 988 | |
| 8 | 2725 | 3074 | LDD | CP | READ SUBSYSTEM ID WORD | 1AJ | 997 | |
| 9 | 2726 | 1626 | ADK | JCIW | | 1AJ | 998 | |
| 10 | 2727 | 6032 | CRD | AB | | 1AJ | 999 | |
| 11 | 2730 | 1657 | ADK | SEPW-JCIW | READ SPECIAL ENTRY POINTS | NS2738 | 5 | |
| 12 | 2731 | 6060 | CRD | CW | | NS2738 | 6 | |
| 13 | 2732 | 1612 | ADK | SSCW-SEPW | READ SCP CONNECTIONS | NS2738 | 7 | |
| 14 | 2733 | 6010 | CRD | CM | | NS2738 | 8 | |
| 15 | 2734 | 3010 | LDD | CM | | NS2738 | 9 | |
| 16 | 2735 | 3111 | ADD | CM+1 | | NS2738 | 10 | |
| 17 | 2736 | 3112 | ADD | CM+2 | | NS2738 | 11 | |
| 18 | 2737 | 3113 | ADD | CM+3 | | NS2738 | 12 | |
| 19 | 2740 | 3114 | ADD | CM+4 | | NS2738 | 13 | |
| 20 | 2741 | 0402 | ZJN | SCS0.1 | IF NO CONNECTIONS TO SCP | NS2738 | 14 | |
| 21 | 2742 | 1401 | LDN | 1 | SET CONNECTIONS TO SCP FLAG | NS2738 | 15 | |
| 22 | 2743 | 3416 | SCS0.1 | STD | T8 | NS2738 | 16 | |
| 23 | | | | | | NS2738 | 17 | |
| 24 | | | * | | CHECK FOR SCP SUBSYSTEM. | NS2738 | 18 | |
| 25 | | | | | | NS2738 | 19 | |
| 26 | 2744 | 3060 | LDD | CW | | NS2738 | 20 | |
| 27 | 2745 | 1220 | LPN | 20 | | NS2738 | 21 | |
| 28 | 2746 | 1120 | LMN | 20 | | NS2738 | 22 | |
| 29 | 2747 | 0433 | ZJN | SCS2 | IF *DMP=* PROGRAM | NS2738 | 23 | |
| 30 | 2750 | 2000 7745 | LDC | LSSI | | V22L602 | 24 | |
| 31 | 2752 | 3234 | SBD | AB+2 | | 1AJ | 1001 | |
| 32 | 2753 | 1632 | ADK | DSSI-LSSI | | V22L602 | 25 | |
| 33 | 2754 | 0426 | ZJN | SCS2 | IF DEADSTART SEQUENCING JOB | V22L602 | 26 | |
| 34 | 2755 | 1732 | SBK | DSSI-LSSI | | V22L602 | 27 | |
| 35 | 2756 | 1056 | SHN | 0-21 | | V22L602 | 28 | |
| 36 | 2757 | 0423 | ZJN | SCS2 | IF NOT A SUBSYSTEM | V22L602 | 29 | |
| 37 | 2760 | 3056 | LDD | FL | | 1AJ | 1007 | |
| 38 | 2761 | 0412 | ZJN | SCS1 | IF NO CM FL ASSIGNED | 1AJ | 1008 | |
| 39 | 2762 | 3055 | LDD | RA | CHECK SUBSYSTEM ID WORD IN RA | 1AJ | 1009 | |
| 40 | 2763 | 1006 | SHN | 6 | | 1AJ | 1010 | |
| 41 | 2764 | 1650 | ADK | SSIW | | 1AJ | 1011 | |
| 42 | 2765 | 6060 | CRD | CW | | 1AJ | 1012 | |
| 43 | 2766 | 3064 | LDD | CW+4 | GET PROGRAM SUBSYSTEM ID CODE | 1AJ | 1013 | |
| 44 | 2767 | 3334 | LMD | AB+2 | COMPARE TO SUBSYSTEM ID IN CPA | 1AJ | 1014 | |
| 45 | 2770 | 0503 | NJN | SCS1 | IF NO MATCH | 1AJ | 1015 | |
| 46 | 2771 | 1410 | LDN | 10 | SET ID WORD-TO-BE-CLEARED STATUS | 1AJ | 1016 | |
| 47 | 2772 | 3516 | RAD | T8 | | 1AJ | 1017 | |
| 48 | | | | | | 1AJ | 1018 | |
| 49 | | | * | | CHECK FOR OUTSTANDING CONNECTION(S) TO UCP-S. | 1AJ | 1019 | |
| 50 | | | | | | 1AJ | 1020 | |
| 51 | | | | | | 1AJ | 1021 | |
| 52 | 2773 | 3074 | SCS1 | LDD | CP | READ SCP CONNECTION WORD | 1AJ | 1021 |
| 53 | 2774 | 2100 0116 | ADK | SSOW | | 1AJ | 1022 | |
| 54 | 2776 | 6060 | CRD | CW | | 1AJ | 1023 | |

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|------|-----------|------|---------|--------|---|---------|------|
| 2777 | 3064 | | LDD | CW+4 | GET CONNECTION COUNT | 1AJ | 1024 |
| 3000 | 0402 | | ZJN | SCS2 | IF NO CONNECTIONS | 1AJ | 1025 |
| 3001 | 1402 | | LDN | 2 | INDICATE OUTSTANDING CONNECTION(S) | 1AJ | 1026 |
| 3002 | 3516 | | RAD | T8 | | 1AJ | 1027 |
| 3003 | 0100 2723 | SCS2 | UJP | SCSX | RETURN | NS2738 | 24 |
| | | ** | | | SEF - SET ERROR FLAG. | 1AJ | 1030 |
| | | * | | | | 1AJ | 1031 |
| | | * | | | SETS THE ERROR FLAG FROM THE EJT, IF PRESENT, ELSE SETS | 1AJ | 1032 |
| | | * | | | THE ERROR FLAG FROM THE CONTROL POINT AREA. | 1AJ | 1033 |
| | | * | | | | 1AJ | 1034 |
| | | * | | | ENTRY (CM - CM+4) = CONTROL POINT WORD *STSW*. | 1AJ | 1035 |
| | | * | | | (JO) = JOB EJT ORDINAL. | 1AJ | 1036 |
| | | * | | | | 1AJ | 1037 |
| | | * | | | EXIT (EF) = ERROR FLAG. | 1AJ | 1038 |
| | | * | | | | 1AJ | 1039 |
| | | * | | | USES CN - CN+4. | 1AJ | 1040 |
| | | * | | | | 1AJ | 1041 |
| | | * | | | CALLS ITF. | NS2467 | 27 |
| | | * | | | | NS2467 | 28 |
| | | * | | | MACROS MONITOR, SFA. | NS2467 | 29 |
| | | | | | | 1AJ | 1043 |
| | | | | | | 1AJ | 1044 |
| 3005 | 0100 3005 | SEF | SUBR | | ENTRY/EXIT | 1AJ | 1045 |
| 3007 | 3045 | | SFA | EJT,JO | SET EJT ADDRESS | 1AJ | 1046 |
| 3012 | 1602 | | ADN | PRFE | READ ERROR FLAG WORD | 1AJ | 1047 |
| 3013 | 6025 | | CRD | CN | | 1AJ | 1048 |
| 3014 | 3026 | | LDD | CN+1 | CHECK EJT ERROR FLAG | 1AJ | 1049 |
| 3015 | 0514 | | NJN | SEF1 | IF ERROR FLAG SET IN EJT | 1AJ | 1050 |
| 3016 | 3011 | | LDD | CM+1 | GET CP ERROR FLAG | 1AJ | 1051 |
| 3017 | 1131 | | LMN | RSET | | NS2061 | 1 |
| 3020 | 0510 | | NJN | SEF0 | IF NOT A RECOVERED SUBSYSTEM | NS2061 | 2 |
| 3021 | 3411 | | STD | CM+1 | CLEAR ERROR FLAG | NS2061 | 3 |
| 3022 | 5600 3032 | | AOM | SEFA | CHECK FOR IAF | NS2091A | 1 |
| 3024 | 1454 | | MONITOR | CEFM | | NS2061 | 4 |
| | | * | LDN | 0 | | NS2061 | 5 |
| 3027 | 0302 | | UJN | SEF1 | CONTINUE | NS2061 | 6 |
| | | | | | | NS2061 | 7 |
| 3030 | 3011 | SEF0 | LDD | CM+1 | | NS2061 | 8 |
| 3031 | 3446 | SEF1 | STD | EF | STORE ERROR FLAG | 1AJ | 1052 |
| 3032 | 1600 | | ADN | 0 | | NS2091A | 2 |
| | | * | ADN | 1 | IF A RECOVERED SUBSYSTEM | NS2091A | 3 |
| | | | | | | NS2091A | 4 |
| | | 3032 | SEFA | EQU | *-1 | NS2091A | 5 |
| 3033 | 0451 | | ZJN | SEFX | IF NO ERROR FLAG | NS2091A | 6 |
| 3034 | 3074 | | LDD | CP | READ JOB CONTROL INFORMATION | NS2091A | 7 |
| 3035 | 1626 | | ADK | JCIW | | NS2091A | 8 |
| 3036 | 6010 | | CRD | CM | | NS2091A | 9 |
| 3037 | 3012 | | LDD | CM+2 | CHECK SUBSYSTEM ID FIELD | NS2091A | 10 |
| 3040 | 2300 7776 | | LMK | IFSI | | NS2091A | 11 |
| 3042 | 0542 | | NJN | SEFX | IF NOT IAF | NS2091A | 12 |
| 3043 | 1466 | | LDN | ZERL | CLEAR IAF ACCESSIBILITY | NS2091A | 13 |
| 3044 | 6010 | | CRD | CM | | NS2091A | 14 |
| 3045 | 1501 | | LCN | 1 | | NS2091A | 15 |
| 3046 | 3410 | | STD | CM | | NS2091A | 15 |

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| | | | | | | |
|------|-----------|-----|------|-----------------------|---------|----|
| 3047 | 3077 | LDD | MA | | NS2091A | 16 |
| 3050 | 6210 | CWD | CM | | NS2091A | 17 |
| 3051 | 0200 1643 | RJM | ITF | ISSUE *TSEM* FUNCTION | NS2467 | 30 |
| 3053 | 0100 3005 | LJM | SEFX | RETURN | NS2091A | 19 |

** STS - SET INTERACTIVE PARAMETERS. V23L617 48

* ENTRY (JBCS) = JOB CONNECTION STATUS. 1AJ 1056

* * 1AJ29 71

* * 1AJ 1058

* EXIT (TSAF) = *IAF* CP NUMBER IF *IAF* IS ACCESSIBLE. 1AJ 1059

* = 0 IF NOT AN ON-LINE INTERACTIVE JOB OR *IAF* 1AJ 1060

* IS INACCESSIBLE. 1AJ 1061

* (TSTN) = TERMINAL NUMBER IF ON-LINE INTERACTIVE JOB 1AJ 1062

* AND *IAF* IS ACCESSIBLE. 1AJ 1063

* = 0 OTHERWISE. 1AJ 1064

* 1AJ 1065

* * USES CM - CM+4. 1AJ 1066

* * 1AJ 1067

* * CALLS AST. 1AJ 1068

* * 1AJ 1071

* * 1AJ 1072

| | | | | | | |
|------|-----------|-------|-----------------|------------------------------|---------|------|
| 3055 | 0100 3055 | STS | SUBR | ENTRY/EXIT | 1AJ | 1073 |
| 3057 | 5000 1107 | LDM | JBCS | JOB CONNECTION STATUS | 1AJ29 | 72 |
| 3061 | 1102 | LMK | OLCS | | 1AJ | 1081 |
| 3062 | 0572 | NJN | STSX | IF NOT ON-LINE | 1AJ | 1082 |
| 3063 | 5000 1106 | LDM | JBOT | CHECK JOB ORIGIN | 1AJ | 1083 |
| 3065 | 1103 | LMN | TXOT | | 1AJ | 1084 |
| 3066 | 0566 | NJN | STSX | IF NOT INTERACTIVE JOB | V23L617 | 49 |
| 3067 | 3074 | LDD | CP | READ TERMINAL POINTER WORD | 1AJ | 1086 |
| 3070 | 1666 | ADK | TTNW | | 1AJ | 1087 |
| 3071 | 6010 | CRD | CM | | 1AJ | 1088 |
| 3072 | 3011 | LDD | CM+1 | SET TERMINAL NUMBER | 1AJ | 1089 |
| 3073 | 5400 1217 | STM | TSTN | | 1AJ | 1090 |
| 3075 | 2000 7776 | LDC | FECF*10000+IFSI | GET *IAF/TELEX* SSCT ENTRY | 1AJ | 1091 |
| 3077 | 0200 2075 | RJM | AST | | 1AJ | 1092 |
| 3101 | 1064 | SHN | 0-13 | SET/CLEAR ACCESSIBILITY FLAG | 1AJ | 1093 |
| | | ERRNZ | /REM/VCPT-1 | CODE ASSUMES *IAF* CP = 1 | 1AJ | 1094 |
| 3102 | 5400 1114 | STM | TSAF | | 1AJ | 1095 |
| 3104 | 0350 | UJN | STSX | RETURN | 1AJ | 1096 |

** ASSEMBLE *COMP GFP* INITIALIZATION CODE. 1AJ 1098

* * 1AJ 1099

* IFP HERE 1AJ 1100

* * 1AJ 1101

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** COMMON DECKS.

1AJ 1103
1AJ 1104
1AJ 1105

| | | | | | | | |
|---|------|------|-------|-----------|--------------------------|---------|----|
| 1 | 3140 | | CTEXT | COMPCUA - | CHECK USER ACCESS. | COMPCUA | 1 |
| 2 | 3221 | 3632 | PROQF | AB | PROCESS QUEUED FUNCTIONS | 253L688 | 55 |

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1

| Line | Text | QUAL | IJB | 1AJ | 1109 |
|------|------|---------|---|---------|------|
| 1 | | IDENT | 3AA,IJBX | 1AJ | 1110 |
| 2 | 2300 | COMMENT | 82/02/26. 95/06/23. 1AJ - INITIATE JOB. | NS22000 | 88 |
| 3 | | COMMENT | COPYRIGHT CONTROL DATA SYSTEMS INC. 1992. | 281L803 | 2 |
| 4 | | ORG | E1AJ | 1AJ | 1112 |
| 7 | | *** | 3AA - INITIATE JOB. | 1AJ | 1115 |
| 8 | | * | | 1AJ | 1116 |
| 9 | | * | *3AA* INITIATES JOB PROCESSING AT THE CONTROL POINT | 1AJ | 1117 |
| 10 | | * | ASSIGNED BY *1SJ*. | 1AJ | 1118 |
| 15 | | *** | JOB COMMAND DAYFILE MESSAGES. | V23L617 | 50 |
| 16 | | * | | 1AJ | 1121 |
| 17 | | * | * JOB COMMAND ERROR.* | V23L617 | 51 |
| 18 | | * | | 1AJ | 1123 |
| 19 | | * | * CARD READER ERROR.* | 1AJ | 1124 |
| 20 | | * | | 1AJ | 1125 |
| 21 | | * | * OPERATOR INPUT TERMINATION.* | 1AJ | 1126 |
| 22 | | * | | 1AJ | 1127 |
| 23 | | * | * DISK FULL.* | 1AJ | 1128 |
| 24 | | * | | 1AJ | 1129 |
| 25 | | * | * MASS STORAGE ERROR.* | 1AJ | 1130 |
| 26 | | * | | 1AJ | 1131 |
| 27 | | * | * JOB IN NO RERUN STATE ON RECOVERY.* = JOB RECOVERED | 1AJ | 1132 |
| 28 | | * | DURING DEADSTART IS ABORTED BECAUSE IT WAS IN | 1AJ | 1133 |
| 29 | | * | NO RERUN MODE. | 1AJ | 1134 |
| 30 | | * | | 1AJ | 1135 |
| 31 | | * | * BINARY SEQ. ERROR, RECXXXX CDYYYY.* = ERROR ON BINARY | 1AJ | 1136 |
| 32 | | * | COMMAND. | V23L617 | 52 |
| 33 | | * | | 1AJ | 1138 |
| 34 | | * | * UNKNOWN HOLL. CODE, RECXXXX CDYYYY.* = ERROR ON | V23L617 | 53 |
| 35 | | * | HOLLERITH CARD. | V23L617 | 54 |
| 36 | | * | | 1AJ | 1141 |
| 37 | | * | * OPERATOR DROP.* | 1AJ | 1142 |
| 38 | | * | | 1AJ | 1143 |
| 39 | | * | * INCORRECT INPUT FILE SYSTEM SECTOR.* | V23L617 | 55 |
| 44 | | ** | ACCOUNT FILE MESSAGES. | 1AJ | 1146 |
| 45 | | * | | 1AJ | 1147 |
| 46 | | * | *UCCR, ID, XXXXXX.XXXKDS.* = MESSAGE INDICATING NUMBER | 1AJ | 1148 |
| 47 | | * | OF COMMANDS READ. | V23L617 | 56 |
| 48 | | * | | 1AJ | 1150 |
| 49 | | * | ID MACHINE ID AND EST ORDINAL OF CARD READER FOR | NS22000 | 90 |
| 50 | | * | *BCOT* JOBS. | 1AJ | 1152 |
| 51 | | * | TERMINAL NAME FOR *EIOT* JOBS. | 1AJ | 1153 |
| 52 | | * | COUNT NUMBER OF COMMANDS READ. | V23L617 | 57 |

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**** DIRECT CELL ASSIGNMENTS.

1AJ 1182
1AJ 1183
1AJ 1184
1AJ 1185
1AJ 1186
1AJ 1187
1AJ 1188
1AJ 1189
1AJ 1190

37 TN EQU 37 TERMINAL NUMBER
57 TA EQU 57 *IAF* RA
65 TT EQU 65 - 66 TERMINAL TABLE ADDRESS (2 CELLS)

**** ASSEMBLY CONSTANTS.

1AJ 1192
1AJ 1193
1AJ 1194
1AJ 1195
1AJ 1196
1AJ 1197
1AJ 1198
1AJ 1199
1AJ 1200
1AJ 1201
1AJ 1202
1AJ 1203
1AJ 1204
1AJ 1205
1AJ 1206
1AJ 1207

7777 DFVL EQU 7777 DEFAULT VALIDATION
100 DFCL EQU 100 DEFAULT JOB STEP TIME LIMIT
777777 DFIJ EQU 777777 DEFAULT INDEFINITE JOB STEP TIME LIMIT
777777 DFBJ EQU 777777 DEFAULT NON-SYSTEM ORIGIN JOB STEP LIMIT
777777 DFBA EQU 777777 DEFAULT NON-SYSTEM ORIGIN ACCOUNT LIMIT
777777 DFSO EQU 777777 DEFAULT SYSTEM ORIGIN SRU LIMIT
500 DFSL EQU 500 DEFAULT SRU LIMIT
1 VCPT EQU /REM/VCPT
276 .IJFL MAX AFFL,JTFL MINIMUM INITIAL JOB FIELD LENGTH
276 IJFL EQU .IJFL

* COMMON DECKS.

V22L602 31
V22L602 32
V22L602 33
V22L602 34
COMSSSD 1

2300 1 SUB\$ EQU 1 ASSEMBLE *SUBSYST* MACRO CALLS
CTEXT COMSSSD - SUBSYSTEM DEFINITIONS.

| | | | | | | | | |
|----|----|------|-----------|---|--------------------|-------------------------------|---------|------|
| | ** | | | IJB - INITIATE JOB. | | | 1AJ | 1209 |
| | * | | | | | | 1AJ | 1210 |
| | * | | | ENTRY (EF) = JOB ERROR FLAG. | | | 1AJ | 1211 |
| 1 | * | | | (JO) = JOB EJT ORDINAL. | | | 1AJ | 1212 |
| 2 | * | | | (TSAF) = *IAF* CP NUMBER IF ACCESSIBLE. | | | 1AJ | 1213 |
| 3 | * | | | (JBOT) = JOB ORIGIN TYPE. | | | 1AJ | 1214 |
| 4 | * | | | | | | 1AJ | 1215 |
| 5 | * | | | EXIT (A) = 0 IF JOB SHOULD BE ADVANCED. | | | 1AJ | 1216 |
| 6 | * | | | = 1 IF JOB SHOULD BE TERMINATED. | | | 1AJ | 1217 |
| 7 | * | | | TO *PPR* TO CALL SUBSYSTEM INITIALIZER PP FOR | | | 1AJ | 1218 |
| 8 | * | | | *SSSC* SERVICE CLASS JOB WHICH DOES NOT USE A | | | 1AJ | 1219 |
| 9 | * | | | PROCEDURE FILE FOR INITIALIZATION. | | | 1AJ | 1220 |
| 10 | * | | | | | | 1AJ | 1221 |
| 11 | * | | | CALLS AIF, CCA, IUT, PJB, PNS, PSS. | | | 271L750 | 9 |
| 12 | * | | | | | | 1AJ | 1223 |
| 13 | * | | | MACROS ENDMS, SFA. | | | 271L750 | 10 |
| 14 | | | | | | | 1AJ | 1225 |
| 15 | | | | | | | 1AJ | 1226 |
| 16 | | 2300 | 0100 2300 | IJB | SUBR | ENTRY/EXIT | 1AJ | 1227 |
| 17 | | 2302 | 0200 6460 | | RJM PJB | PRESET JOB | 242L642 | 29 |
| 18 | | 2304 | 5000 1105 | | LDM JBSC | | 271L750 | 11 |
| 19 | | 2306 | 1123 | | LMN DSSC | | 1AJ | 1286 |
| 20 | | 2307 | 0403 | | ZJN IJB3 | IF DEADSTART SEQUENCING JOB | 1AJ | 1287 |
| 21 | | 2310 | 1124 | | LMN DSSC&SSSC | | 1AJ | 1288 |
| 22 | | 2311 | 0517 | | NJN IJB4 | IF NOT A SUBSYSTEM | 1AJ | 1289 |
| 23 | | 2312 | 0200 0535 | IJB3 | ENDMS | | 1AJ | 1290 |
| 24 | | 2314 | 3046 | | LDD EF | | 1AJ | 1291 |
| 25 | | 2315 | 0403 | | ZJN IJB3.0 | IF NO ERROR FLAG IS SET | 1AJ | 1292 |
| 26 | | 2316 | 1132 | | LMN SSET | | 1AJ | 1293 |
| 27 | | 2317 | 0404 | | ZJN IJB3.1 | IF *1SJ* SET ERROR FLAG | 1AJ | 1294 |
| 28 | | 2320 | 0200 3676 | IJB3.0 | RJM PSS | PROCESS SUBSYSTEM | 1AJ | 1295 |
| 29 | | 2322 | 0411 | | ZJN IJB5 | IF NO ERROR | 1AJ | 1296 |
| 30 | | 2323 | 5400 7137 | IJB3.1 | STM SISS | | 1AJ | 1297 |
| 31 | | 2325 | 1401 | | LDK NOJT | SET *NOJT* QUEUED FILE OPTION | 241L630 | 3 |
| 32 | | 2326 | 5400 1111 | | STM JTFG | | 1AJ | 1300 |
| 33 | | 2330 | 0200 3536 | IJB4 | RJM PNS | PROCESS NON-SUBSYSTEM JOB | 1AJ | 1301 |
| 34 | | 2332 | 0726 | | MJN IJB6 | IF PROBLEMS OCCURRED | 1AJ | 1302 |
| 35 | | 2333 | 0200 3024 | IJB5 | RJM CCA | COMPLETE CPA INITIALIZATION | 1AJ | 1303 |
| 36 | | | | | | | NS22000 | 91 |
| 37 | * | | | INITIALIZE SERVICE CLASS VALIDATION INFORMATION IN NFL. | | | NS22000 | 92 |
| 38 | | | | | | | NS22000 | 93 |
| 39 | | 2335 | 3077 | | LDD MA | SET VALIDATION MASK | NS22000 | 94 |
| 40 | | 2336 | 6370 7365 | | CWM VASS+ASCV*5,ON | | NS22000 | 95 |
| 41 | | 2340 | 1701 | | SBN 1 | | NS22000 | 96 |
| 42 | | 2341 | 6010 | | CRD CM | | NS22000 | 97 |
| 43 | | 2342 | 1400 | | LDN 0 | | NS22000 | 98 |
| 44 | | 2343 | 3410 | | STD CM | | NS22000 | 99 |
| 45 | | 2344 | 3411 | | STD CM+1 | | NS22000 | 100 |
| 46 | | 2345 | 3055 | | NFA SCVN | | NS22000 | 101 |
| 47 | | 2350 | 6210 | | CWD CM | | NS22000 | 102 |
| 48 | | 2351 | 3046 | | LDD EF | | 1AJ | 1304 |
| 49 | | 2352 | 0506 | | NJN IJB6 | IF ERROR FLAG IS SET IN EJT | 1AJ | 1305 |
| 50 | | | | | | | 1AJ | 1306 |
| 51 | * | | | CHECK FOR ABORTED INPUT FILE. | | | 1AJ | 1307 |
| 52 | | | | | | | 1AJ | 1308 |
| 53 | | 2353 | 5000 7120 | | LDM JASS | | 1AJ | 1309 |
| 54 | | 2355 | 0416 | | ZJN IJB8 | IF NOT ABORTED INPUT FILE | 1AJ | 1310 |

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|------|------|------|------|---------|-----------|--|---------|------|
| 2356 | 0200 | 2576 | | RJM | AIF | PROCESS ABORTED INPUT FILE | 1AJ | 1311 |
| 2360 | 1401 | | IJB6 | LDN | 1 | SET TERMINATION EXIT CONDITION | 1AJ | 1312 |
| 2361 | 5400 | 2370 | | STM | IJBA | | 1AJ | 1313 |
| | | | | | | | 1AJ | 1314 |
| | | | * | | UPDATE | EJT ENTRY AS FOLLOWS - | 1AJ | 1315 |
| | | | * | | | CHANGE JOB STATUS TO *EXJS*. | 1AJ | 1316 |
| | | | * | | | CLEAR INPUT FILE ADDRESS. | 1AJ | 1317 |
| | | | * | | | CLEAR ERROR FLAG. | 1AJ | 1318 |
| | | | | | | | 1AJ | 1319 |
| 2363 | 2003 | 2535 | | IJB7 | LDC | IJBL+3*10000 | 1AJ | 1320 |
| | | | * | | LDC | IJBL+4*10000 (*ORET* ERROR FLAG SET) | 242L642 | 47 |
| | | 2363 | | IJB7 | EQU | *-2 | 242L642 | 48 |
| 2365 | 0200 | 4427 | | RJM | IUT | ISSUE *UTEM* MONITOR FUNCTION | 1AJ | 1321 |
| 2367 | 2000 | 0000 | | LDC | ** | | 1AJ | 1322 |
| | | 2370 | | IJBA | EQU | *-1 (EXIT FLAG) | 1AJ | 1323 |
| 2371 | 0100 | 2300 | | LJM | IJBX | RETURN TO *1AJ* RESIDENT | 1AJ | 1324 |
| | | | | | | | 1AJ | 1325 |
| 2373 | 5000 | 7137 | | IJB8 | LDM | SISS | NS2181B | 1 |
| 2375 | 2177 | 0031 | | SBK | LSSI+1 | | NS22000 | 104 |
| 2377 | 0763 | | | MJN | IJB7 | IF NOT A SUBSYSTEM | NS2181B | 2 |
| 2400 | 2000 | 7776 | | LDC | MXSI | | 271L750 | 12 |
| 2402 | 5200 | 7137 | | SBM | SISS | | 271L750 | 13 |
| 2404 | 0602 | | | PJN | IJB9 | IF NOT THE DEADSTART SEQUENCING JOB | 271L750 | 14 |
| | | -1 | | ERRPL | MXSI-DSSI | CODE ASSUMES VALUE | 271L750 | 15 |
| 2405 | 1420 | | | LDK | MXSI-MSSI | INITIATE LIKE *CMS* | 271L750 | 16 |
| 2406 | 1001 | | | IJB9 | SHN | 1 | 271L750 | 17 |
| 2407 | 3401 | | | STD | T1 | | 271L750 | 18 |
| | | | | | | | 1AJ | 1331 |
| | | | * | | | DETERMINE IF THE SUBSYSTEM MUST BE FORCED INTO CPU 0 ON A | 271L750 | 19 |
| | | | * | | | DUAL CPU MACHINE WITH CACHE. | 271L750 | 20 |
| | | | | | | | 1AJ | 1337 |
| 2410 | 5001 | 4010 | | LDM | TSPP+1,T1 | | 271L750 | 21 |
| 2412 | 1277 | | | LPN | 77 | | 271L750 | 22 |
| 2413 | 0415 | | | ZJN | IJB10 | IF SUBSYSTEM MAY RUN IN EITHER CPU | 271L750 | 23 |
| 2414 | 1471 | | | LDN | EIBP | | 271L750 | 24 |
| 2415 | 6010 | | | CRD | CM | | 271L750 | 25 |
| 2416 | 3010 | | | LDD | CM | | 271L750 | 26 |
| 2417 | 1007 | | | SHN | 21-12 | | 271L750 | 27 |
| 2420 | 0610 | | | PJN | IJB10 | IF NOT DUAL CPU MACHINE WITH CACHE | 271L750 | 28 |
| 2421 | 1401 | | | LDN | CPUS | SELECT CPU 0 | 271L750 | 29 |
| 2422 | 3411 | | | STD | CM+1 | | 271L750 | 30 |
| | | 0 | | ERRNZ | CPUS-1 | CODE DEPENDS ON VALUE | 271L750 | 31 |
| 2423 | 3414 | | | STD | CM+4 | | 271L750 | 32 |
| 2424 | 2000 | 0105 | | MONITOR | SJCM | | 271L750 | 33 |
| | | | | | | | 271L750 | 34 |
| | | | * | | | DETERMINE IF THE SUBSYSTEM SHOULD BE INITIATED BY A PP CALL, | 271L750 | 35 |
| | | | * | | | OR VIA A SET OF COMMANDS ON THE JOB INPUT FILE. | 271L750 | 36 |
| | | | | | | | 271L750 | 37 |
| 2430 | 5001 | 4007 | | IJB10 | LDM | TSPP,T1 | 271L750 | 38 |
| 2432 | 0503 | | | ZJP | IJB7 | IF NOT A PP-INITIATED SUBSYSTEM | 271L750 | 39 |
| 2435 | 3450 | | | STD | IR | STORE PP NAME IN PP INPUT REGISTER | 1AJ | 1345 |
| 2436 | 5001 | 4010 | | LDM | TSPP+1,T1 | | V22L602 | 37 |
| 2440 | 3351 | | | LMD | IR+1 | | 1AJ | 1348 |
| 2441 | 1377 | | | SCN | 77 | | 1AJ | 1349 |
| 2442 | 3351 | | | LMD | IR+1 | | 1AJ | 1350 |
| 2443 | 3451 | | | STD | IR+1 | | 1AJ | 1351 |
| 2444 | 3075 | | | LDD | IA | | 1AJ | 1352 |

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|------|------|------|------|--------------|----------------------------------|-----|------|
| 2445 | 6250 | | CWD | IR | | 1AJ | 1353 |
| | | | | | | 1AJ | 1354 |
| | | | * | UPDATE | EJT ENTRY AS FOLLOWS - | 1AJ | 1355 |
| | | | * | | CHANGE JOB STATUS TO *EXJS*. | 1AJ | 1356 |
| | | | * | | CLEAR JOB ADVANCE AND INTERLOCK. | 1AJ | 1357 |
| | | | * | | CLEAR INPUT FILE ADDRESS. | 1AJ | 1358 |
| | | | * | | CLEAR ERROR FLAG. | 1AJ | 1359 |
| | | | | | | 1AJ | 1360 |
| 2446 | 5600 | 2535 | AOM | IJBL | | 1AJ | 1361 |
| 2450 | 5700 | 2541 | SOM | IJBL+4 | | 1AJ | 1362 |
| 2452 | 2003 | 2535 | LDC | IJBL+3*10000 | | 1AJ | 1363 |
| 2454 | 0200 | 4427 | RJM | IUT | ISSUE *UTEM* MONITOR FUNCTION | 1AJ | 1364 |
| 2456 | 0100 | 0257 | LJM | PPR | CALL PP TO INITIATE SUBSYSTEM | 1AJ | 1365 |
| | | | | | | 1AJ | 1366 |
| | | | | | | 1AJ | 1367 |
| | | | ** | DEFAULT | CONTROL POINT AREA WORD IMAGES. | 1AJ | 1368 |
| | | | | | | 1AJ | 1369 |
| | | | | | | 1AJ | 1370 |
| | | | * | *STLW*. | | 1AJ | 1371 |
| | | | | | | 1AJ | 1372 |
| 2460 | 7777 | | IJBB | VFD | 18/DFBA,42/-0 | 1AJ | 1373 |
| 2461 | 7777 | | | | | | |
| 2462 | 7777 | | | | | | |
| 2463 | 7777 | | | | | | |
| 2464 | 7777 | | | | | | |
| | | | | | | 1AJ | 1374 |
| | | | * | *SRJW*. | | 1AJ | 1375 |
| | | | | | | 1AJ | 1376 |
| 2465 | 0000 | | IJBC | VFD | 12/0,18/DFBJ,30/0 | 1AJ | 1377 |
| 2466 | 7777 | | | | | | |
| 2467 | 7700 | | | | | | |
| 2470 | 0000 | | | | | | |
| 2471 | 0000 | | | | | | |
| | | | | | | 1AJ | 1378 |
| | | | * | *CPJW*. | | 1AJ | 1379 |
| | | | | | | 1AJ | 1380 |
| 2472 | 0000 | | IJBD | VFD | 12/0,18/DFCP,30/0 | 1AJ | 1381 |
| 2473 | 0001 | | | | | | |
| 2474 | 0000 | | | | | | |
| 2475 | 0000 | | | | | | |
| 2476 | 0000 | | | | | | |
| | | | | | | 1AJ | 1382 |
| | | | * | *FPFW*. | | 1AJ | 1383 |
| | | | | | | 1AJ | 1384 |
| 2477 | 0000 | | IJBE | VFD | 12/0,12/DFVL,36/0 | 1AJ | 1385 |
| 2500 | 7777 | | | | | | |
| 2501 | 0000 | | | | | | |
| 2502 | 0000 | | | | | | |
| 2503 | 0000 | | | | | | |
| | | | | | | 1AJ | 1386 |
| | | | * | *PFCW*. | | 1AJ | 1387 |
| | | | | | | 1AJ | 1388 |
| 2504 | 0000 | | IJBF | VFD | 36/0,12/NEEQ,12/0 | 1AJ | 1389 |
| 2505 | 0000 | | | | | | |
| 2506 | 0000 | | | | | | |
| 2507 | 0002 | | | | | | |
| 2510 | 0000 | | | | | | |

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|----|------|-----------|------|--|---|-----|------|
| | | | * | *CSPW* (SUBSYSTEMS). | | 1AJ | 1394 |
| | | | | | | 1AJ | 1395 |
| | | | | | | 1AJ | 1396 |
| 1 | 2511 | 0000 | IJBH | VFD | 12/0,1/1,23/0,12/CSBN,12/CSBN-3 | 1AJ | 1397 |
| 2 | 2512 | 4000 | | | | | |
| 3 | 2513 | 0000 | | | | | |
| 4 | 2514 | 0205 | | | | | |
| 5 | 2515 | 0202 | | | | | |
| 6 | | | | | | 1AJ | 1398 |
| 7 | | | * | *CSPW* (PRESET PRIOR TO I/O IN CASE OF I/O ERROR). | | 1AJ | 1399 |
| 8 | | | | | | 1AJ | 1400 |
| 9 | 2516 | 0000 | IJBI | VFD | 12/0,12/4000,12/0,12/CSBN,12/CSBN | 1AJ | 1401 |
| 10 | 2517 | 4000 | | | | | |
| 11 | 2520 | 0000 | | | | | |
| 12 | 2521 | 0205 | | | | | |
| 13 | 2522 | 0205 | | | | | |
| 14 | | | | | | 1AJ | 1402 |
| 15 | | | * | *CPLW*. | | 1AJ | 1403 |
| 16 | | | | | | 1AJ | 1404 |
| 17 | 2523 | 3777 | IJBK | VFD | 1/0,59/-0 | 1AJ | 1405 |
| 18 | 2524 | 7777 | | | | | |
| 19 | 2525 | 7777 | | | | | |
| 20 | 2526 | 7777 | | | | | |
| 21 | 2527 | 7777 | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | * | MISCELLANEOUS STORAGE. | | 1AJ | 1407 |
| 27 | | | | | | 1AJ | 1408 |
| 28 | | | | | | 1AJ | 1409 |
| 29 | | | * | MULTIPLIER VALUES FOR *ACTM* FUNCTION. | | 1AJ | 1410 |
| 30 | | | | | | 1AJ | 1411 |
| 31 | 2530 | 0012 | IJBK | VFD | 12/M1SR,12/M2SR,12/M3SR,12/M4SR,12/ADSR | 1AJ | 1412 |
| 32 | 2531 | 0144 | | | | | |
| 33 | 2532 | 0003 | | | | | |
| 34 | 2533 | 0003 | | | | | |
| 35 | 2534 | 0000 | | | | | |
| 36 | | | | | | 1AJ | 1413 |
| 37 | | | * | *UTEM* PARAMETERS. | | 1AJ | 1414 |
| 38 | | | | | | 1AJ | 1415 |
| 39 | 2535 | 0006 | IJBL | VFD | 1/0,5/JSNE,6/6 | 1AJ | 1416 |
| 40 | 2536 | 0000 | | VFD | 6/0,6/0 | 1AJ | 1417 |
| 41 | 2537 | 0000 | | CON | 0 | 1AJ | 1418 |
| 42 | 2540 | 0000 | | CON | 0 | 1AJ | 1419 |
| 43 | 2541 | 0003 | | CON | EXJS*2+1 | 1AJ | 1420 |
| 44 | | | | | | 1AJ | 1421 |
| 45 | 2542 | 0130 | | VFD | 1/0,5/SCHE,6/24D | 1AJ | 1422 |
| 46 | 2543 | 4400 | | VFD | 6/36D,6/0 | 1AJ | 1423 |
| 47 | 2544 | 0000 0000 | | CON | 0,0,0 | 1AJ | 1424 |
| 48 | 2546 | 0000 | | | | | |
| 49 | | | | | | 1AJ | 1425 |
| 50 | 2547 | 0214 | | VFD | 1/0,5/PRFE,6/12D | 1AJ | 1426 |
| 51 | 2550 | 4400 | | VFD | 6/36D,6/0 | 1AJ | 1427 |
| 52 | 2551 | 0000 | | CON | 0 | 1AJ | 1428 |
| 53 | 2552 | 0000 | | CON | 0 | 1AJ | 1429 |
| 54 | 2553 | 0000 | | CON | 0 | 1AJ | 1430 |
| 55 | | | | | | | |
| 56 | | | | | | | |
| 57 | | | | | | | |
| 58 | | | | | | | |
| 59 | | | | | | | |
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|------|-----------|------|----------------|-------------------------------|---------|------|
| 2554 | 0102 | VFD | 1/0,5/SCHE,6/2 | UNCONDITIONAL JOB TERMINATION | 242L642 | 49 |
| 2555 | 4100 | VFD | 6/33D,6/0 | | 242L642 | 50 |
| 2556 | 0000 0000 | CON | 0,0,UCTM | | 242L642 | 51 |
| 2560 | 0002 | | | | 242L642 | 52 |
| | | | | | 1AJ | 1431 |
| | | * | *AACW* | AND *ALMW*. | 1AJ107 | 1 |
| 2561 | 7777 | IJBM | VFD | 60/-0 | 1AJ | 1433 |
| 2562 | 7777 | | | | 1AJ | 1434 |
| 2563 | 7777 | | | | | |
| 2564 | 7777 | | | | | |
| 2565 | 7777 | | | | | |
| | | * | *ACLW*. | | 1AJ107 | 2 |
| | | | | | 1AJ107 | 3 |
| | | * | VFD | 36/-0 | 1AJ107 | 4 |
| 2566 | 00 | | VFD | 6/0 | 1AJ107 | 5 |
| | 77 | | VFD | 18/-0 | 1AJ107 | 6 |
| 2567 | 7777 | | | | 1AJ107 | 7 |
| | | | | | V23L617 | 69 |
| 2570 | 2331 | IJBN | VFD | 60/0L"SYSCHG" | V23L617 | 70 |
| 2571 | 2324 | | | | | |
| 2572 | 0515 | | | | | |
| 2573 | 0000 | | | | | |
| 2574 | 0000 | | | | | |

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|----|----|------|-----------|---|---------------|--|---------|------|
| | ** | | | AIF - PROCESS ABORTED INPUT FILE. | | | 1AJ | 1541 |
| | * | | | | | | 1AJ | 1542 |
| | * | | | ENTRY (A) = ABORTED INPUT FILE ERROR CODE. | | | 1AJ | 1543 |
| | * | | | (TT - TT+1) = TERMINAL TABLE ADDRESS. | | | 1AJ | 1544 |
| | * | | | (TSTN) = TERMINAL NUMBER IF ON-LINE INTERACTIVE JOB | | | 1AJ | 1545 |
| | * | | | AND *IAF* IS ACCESSIBLE. | | | 1AJ | 1546 |
| | * | | | | | | 1AJ | 1547 |
| | * | | | USES T1, T2, CM - CM+4. | | | 1AJ | 1548 |
| | * | | | | | | 1AJ | 1549 |
| | * | | | CALLS C2D, DFM, RRR, SRR. | | | NS2748 | 1 |
| | * | | | | | | 1AJ | 1551 |
| | * | | | MACROS MONITOR. | | | 1AJ | 1552 |
| | * | | | | | | 1AJ | 1553 |
| | * | | | HANG CONDITIONS - | | | 1AJ | 1554 |
| | * | | | INCORRECT ERROR CODE. | | | V23L617 | 71 |
| | | | | | | | 1AJ | 1556 |
| | | | | | | | 1AJ | 1557 |
| 15 | | 2575 | 0100 2575 | AIF | SUBR | ENTRY/EXIT | 1AJ | 1558 |
| 16 | | 2577 | 3401 | | STD T1 | SAVE ERROR CODE | 1AJ | 1559 |
| 17 | | 2600 | 1725 | | SBN TAIPL+1 | | 1AJ | 1560 |
| 18 | | 2601 | 0715 | | MJN AIF1 | IF LEGAL ERROR CODE | 1AJ | 1561 |
| 19 | | 2602 | 1400 | | LDN 0 | | 241L630 | 4 |
| 20 | | 2603 | 3412 | | STD CM+2 | SET NO ERROR FLAG | 241L630 | 5 |
| 21 | | 2604 | 2000 2604 | | LDC * | | 241L630 | 6 |
| 22 | | 2606 | 3411 | | STD CM+1 | ADDRESS WHERE ERROR DETECTED | 241L630 | 7 |
| 23 | | 2607 | 1421 | | MONITOR CHGM | CONDITIONAL HANG | 241L630 | 8 |
| 24 | | 2612 | 3001 | | LDD T1 | | 241L630 | 9 |
| 25 | | 2613 | 3410 | | STD CM | SAVE BAD ERROR CODE | 241L630 | 10 |
| 26 | | 2614 | 1425 | | LDN TAIPL+1 | SET PSEUDO ERROR CODE | 241L630 | 11 |
| 27 | | 2615 | 3401 | | STD T1 | | 241L630 | 12 |
| 28 | | 2616 | 5001 2775 | AIF1 | LDM TAIP,T1 | SET PROCESSOR ADDRESS | 1AJ | 1565 |
| 29 | | 2620 | 3402 | | STD T2 | | 1AJ | 1566 |
| 30 | | 2621 | 0403 | | ZJN AIF2 | IF NO PROCESSOR EXISTS FOR THIS ERROR CODE | 1AJ | 1567 |
| 31 | | 2622 | 0202 0000 | | RJM 0,T2 | PROCESS ERROR CODE | 1AJ | 1568 |
| 32 | | | | | | | 1AJ | 1569 |
| 33 | | | | * | | ISSUE MESSAGE AND TERMINATE JOB. | 1AJ | 1570 |
| 34 | | | | | | | 1AJ | 1571 |
| 35 | | 2624 | 5001 2747 | AIF2 | LDM TAIM,T1 | | 1AJ | 1572 |
| 36 | | 2626 | 0403 | | ZJN AIF3 | IF NO MESSAGE TO ISSUE | 1AJ | 1573 |
| 37 | | 2627 | 0200 0423 | | RJM DFM | ISSUE MESSAGE | 1AJ | 1574 |
| 38 | | 2631 | 5000 1217 | AIF3 | LDM TSTN | | 1AJ | 1575 |
| 39 | | 2633 | 0441 | | ZJN AIFX | IF NOT ON-LINE INTERACTIVE JOB | 1AJ | 1576 |
| 40 | | 2634 | 0200 4751 | | RJM SRR | SET R-REGISTER TO IAF RA | NS2748 | 2 |
| 41 | | 2636 | 3065 | | LDD TT | READ *VROT* | 1AJ | 1577 |
| 42 | | 2637 | 1014 | | SHN 14 | | 1AJ | 1578 |
| 43 | | 2640 | 3366 | | LMD TT+1 | | 1AJ | 1579 |
| 44 | | 2641 | 1603 | | ADK /REM/VROT | | 1AJ | 1580 |
| 45 | | 2642 | 6010 | | CRD CM | | 1AJ | 1581 |
| 46 | | 2643 | 2000 6001 | | LDC 6001 | SET ABORTED INPUT FILE, COMPLETION FLAGS | 1AJ | 1582 |
| 47 | | 2645 | 3414 | | STD CM+4 | | 1AJ | 1583 |
| 48 | | 2646 | 3065 | | LDD TT | WRITE *VROT* | 1AJ | 1584 |
| 49 | | 2647 | 1014 | | SHN 14 | | 1AJ | 1585 |
| 50 | | 2650 | 3366 | | LMD TT+1 | | 1AJ | 1586 |
| 51 | | 2651 | 1603 | | ADK /REM/VROT | | 1AJ | 1587 |
| 52 | | 2652 | 6210 | | CWD CM | | 1AJ | 1588 |
| 53 | | 2653 | 0200 4775 | | RJM RRR | RESTORE R-REGISTER | NS2748 | 3 |
| 54 | | 2655 | 0100 2575 | | LJM AIFX | RETURN | 1AJ | 1589 |

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* ABORTED INPUT FILE ERROR PROCESSORS. 1AJ 1591
* 1AJ 1592
* ENTRY (T1) = ERROR CODE. 1AJ 1593
* *BFMS* CONTAINS SYSTEM SECTOR. 1AJ 1594

** PUA - PROCESS UNKNOWN ABORT CODE. 241L630 14
* 241L630 15
* ENTRY (T1) = TABLE INDEX TO ABORT MESSAGE. 241L630 16
* (CM) = UNKNOWN ABORT CODE. 241L630 17
* 241L630 18
* USES CM+1. 241L630 19
* 241L630 20
* CALLS C2D. 241L630 21
241L630 22
241L630 23

| | | | | | | | |
|------|------|------|-----|------|------------|---------|----|
| 2657 | 0100 | 2657 | PUA | SUBR | ENTRY/EXIT | 241L630 | 24 |
| 2661 | 5001 | 2747 | | LDM | TAIM,T1 | 241L630 | 25 |
| 2663 | 3411 | | | STD | CM+1 | 241L630 | 26 |
| 2664 | 3010 | | | LDD | CM | 241L630 | 27 |
| 2665 | 0200 | 5143 | | RJM | C2D | 241L630 | 28 |
| 2667 | 5411 | 0014 | | STM | 14,CM+1 | 241L630 | 29 |
| 2671 | 0365 | | | UJN | PUAX | 241L630 | 30 |

** PJC - *JCIE*/*STIE*/*IDIE*/*DBIE*/*VLIE*/*NLIE* PROCESSOR. NS21000 23
1AJ 1597
1AJ 1598
1AJ 1599
2672 0100 2672 PJC SUBR ENTRY/EXIT
2674 3074 LDD CP WRITE CREATOR-S USER NAME/INDEX TO CPA V23L617 72
2675 1670 ADN UIDW 1AJ 1601
2676 6370 7202 CWM ACSS,ON 1AJ 1602
2700 0371 UJN PJCX RETURN 1AJ 1603

** PBC - *BCIE*/*HDIE* PROCESSOR. 1AJ 1605
* 1AJ 1606
* CALLS CDD. 1AJ20 1
1AJ 1608

| | | | | | | | |
|------|------|------|-----|------|------------|-----|------|
| 2701 | 0100 | 2701 | PBC | SUBR | ENTRY/EXIT | 1AJ | 1609 |
| 2703 | 5001 | 2747 | | LDM | TAIM,T1 | 1AJ | 1610 |
| 2705 | 1614 | | | ADN | 12D | 1AJ | 1611 |
| 2706 | 5400 | 2727 | | STM | PBCA | 1AJ | 1612 |
| 2710 | 1601 | | | ADN | 1 | 1AJ | 1613 |
| 2711 | 5400 | 2732 | | STM | PBCB | 1AJ | 1614 |
| 2713 | 1603 | | | ADN | 3 | 1AJ | 1615 |
| 2714 | 5400 | 2741 | | STM | PBCC | 1AJ | 1616 |
| 2716 | 1601 | | | ADN | 1 | 1AJ | 1617 |
| 2717 | 5400 | 2744 | | STM | PBCD | 1AJ | 1618 |
| 2721 | 5000 | 7121 | | LDM | RNSS | 1AJ | 1619 |

1AJ 1620 CONVERT RECORD NUMBER

| | | | | | | |
|------|-----------|-------|---------|---|---------|------|
| 2723 | 0200 3511 | RJM | CDD | CONVERT TO DECIMAL | 1AJ20 | 2 |
| 2725 | 3013 | LDD | CM+3 | STORE COMMAND NUMBER IN MESSAGE | V23L617 | 73 |
| 2726 | 5400 0000 | STM | ** | | 1AJ20 | 4 |
| | 2727 | PBCA | EQU | *-1 | 1AJ20 | 5 |
| 2730 | 3014 | LDD | CM+4 | | 1AJ20 | 6 |
| 2731 | 5400 0000 | STM | ** | | 1AJ20 | 7 |
| | 2732 | PBCB | EQU | *-1 | 1AJ20 | 8 |
| 2733 | 5000 7122 | LDM | CNSS | CONVERT COMMAND NUMBER | V23L617 | 74 |
| 2735 | 0200 3511 | RJM | CDD | CONVERT TO DECIMAL | 1AJ20 | 9 |
| 2737 | 3013 | LDD | CM+3 | | 1AJ20 | 10 |
| 2740 | 5400 0000 | STM | ** | | 1AJ20 | 11 |
| | 2741 | PBCC | EQU | *-1 | 1AJ20 | 12 |
| 2742 | 3014 | LDD | CM+4 | | 1AJ20 | 13 |
| 2743 | 5400 0000 | STM | ** | | 1AJ20 | 14 |
| | 2744 | PBCD | EQU | *-1 | 1AJ20 | 15 |
| 2745 | 0100 2701 | LJM | PBCX | RETURN | 1AJ | 1638 |
| | | | | | 1AJ | 1639 |
| | 2702 | PHD | EQU | *HDIE* PROCESSOR ENTRY LOCATION | 1AJ | 1640 |
| | | ** | TAIM | - TABLE OF ABORTED INPUT FILE ERROR MESSAGES. | 1AJ | 1642 |
| | | * | | INDEXED BY ABORTED INPUT FILE ERROR CODE. | 1AJ | 1643 |
| | | * | | | 1AJ | 1644 |
| | | * | NOTE | - ADDITION OF ANY ENTRY TO THIS TABLE REQUIRES INCLUSION | 1AJ | 1645 |
| | | * | | OF THE NEW ERROR FLAG IN THE *MAX* PARAMETER LIST. | 1AJ | 1646 |
| | | | | | 1AJ | 1647 |
| | | | | | 1AJ | 1648 |
| | 24 | TAIML | MAX | JCIE, CRIE, OTIE, DFIE, MSIE, NRIE, BCIE, HDIE, ODIE, STIE, IDIE, | NS21000 | 24 |
| | | | | , DBIE, VLIE, UNIE, SCIE, USIE, UCIE, HRIE, SWIE | 241L630 | 31 |
| | | | | | 1AJ | 1650 |
| | | | | | 1AJ | 1651 |
| 2747 | | TAIM | INDEX | | | |
| L 1 | 5542 | INDEX | JCIE | (=C* JOB COMMAND ERROR.*) | V23L617 | 76 |
| L 2 | 5555 | INDEX | CRIE | (=C* CARD READER ERROR.*) | 1AJ | 1653 |
| L 3 | 5570 | INDEX | OTIE | (=C* OPERATOR INPUT TERMINATION.*) | 1AJ | 1654 |
| L 4 | 5607 | INDEX | DFIE | (=C* DISK FULL.*) | 1AJ | 1655 |
| L 5 | 5616 | INDEX | MSIE | (=C* MASS STORAGE ERROR.*) | 1AJ | 1656 |
| L 6 | 5631 | INDEX | NRIE | (=C* JOB IN NO RERUN STATE ON RECOVERY.*) | 1AJ | 1657 |
| L 7 | 5654 | INDEX | BCIE | (=C* BINARY SEQ. ERROR, REC0000 CD0000. *) | 1AJ | 1658 |
| L 10 | 5701 | INDEX | HDIE | (=C* UNKNOWN HOLL. CODE, REC0000 CD0000. *) | V23L617 | 77 |
| L 11 | 5726 | INDEX | ODIE | (=C* OPERATOR DROP.*) | 1AJ | 1660 |
| L 12 | 5737 | INDEX | STIE | (=C/ USER NOT VALIDATED TO SPECIFY *ST*./) | NS21000 | 26 |
| L 13 | 5762 | INDEX | IDIE | (=C* INCORRECT LID.*) | V23L617 | 78 |
| L 14 | 5773 | INDEX | DBIE | (=C* QUEUE LIMITS EXCEEDED ON REMOTE MAINFRAME.*) | NS21000 | 28 |
| L 15 | 6022 | INDEX | VLIE | (=C* JOB NOT VALID ON REMOTE MAINFRAME.*) | NS21000 | 29 |
| L 16 | 6045 | INDEX | NLIE | (=C* JOB NOT VALIDATED TO USE LINK.*) | NS21000 | 30 |
| L 17 | 6066 | INDEX | UNIE | (=C* USER NAME/PASSWORD NOT VALID.*) | NS22000 | 107 |
| L 20 | 6106 | INDEX | SCIE | (=C* INCORRECT SERVICE CLASS.*) | V23L617 | 79 |
| L 21 | 6124 | INDEX | USIE | (=C* UNDEFINED SERVICE CLASS.*) | NS22000 | 109 |
| L 22 | 6142 | INDEX | UCIE | (=C* USER SECURITY COUNT EXHAUSTED.*) | NS22000 | 110 |
| L 23 | 6163 | INDEX | HRIE | (=C* HARDWARE RERUN THRESHOLD EXCEEDED.*) | V23L617 | 80 |
| L 24 | 6206 | INDEX | SWIE | (=C* SYSTEM SOFTWARE RERUN THRESHOLD EXCEEDED.*) | 241L630 | 32 |
| L 25 | 6234 | INDEX | TAIML+1 | (=C* INCORRECT ABORT CODE XX.*) | 241L630 | 33 |
| 2775 | | INDEX | TAIML+2 | | 241L630 | 34 |

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|------|-----------|--------|-------|---------------|-------------------------------------|---------|------|
| 3034 | 6010 | | CRD | CM | | NS22000 | 112 |
| 3035 | 5000 7065 | | LDM | IOSS+5*INSQ+3 | SET ACCESS LEVEL | NS22000 | 113 |
| 3037 | 1270 | | LPN | 70 | | NS22000 | 114 |
| 3040 | 1074 | | SHN | -3 | | NS22000 | 115 |
| 3041 | 3412 | | STD | CM+2 | | NS22000 | 116 |
| 3042 | 3055 | | NFA | FNTN | WRITE INPUT FILE FNT/FST TO NFL | 1AJ | 1710 |
| 3046 | 6370 3503 | | CWM | CCAA,ON | | 1AJ | 1711 |
| | | 0 | ERRNZ | FSTL-1 | CODE DEPENDS ON VALUE | NS22000 | 117 |
| 3050 | 6220 | | CWD | FS | | 1AJ | 1712 |
| 3051 | 1601 | | ADN | FUTL-FSTL | | NS22000 | 118 |
| 3052 | 6210 | | CWD | CM | | NS22000 | 119 |
| | | | | | | 1AJ | 1713 |
| | | | * | | SET JOB STEP AND SRU LIMITS. | 1AJ | 1722 |
| | | | | | | 1AJ | 1723 |
| 3053 | 5000 7350 | | LDM | VASS+AHMT*5+2 | SET SRU VALIDATION INDEX | 1AJ | 1724 |
| 3055 | 0200 5077 | | RJM | SLI | SRU LIMIT INDEX | 1AJ | 1725 |
| 3057 | 1074 | | SHN | -3 | | NS2516 | 1 |
| 3060 | 5400 2500 | | STM | IJBE+1 | | 1AJ | 1726 |
| 3062 | 5000 1106 | | LDM | JBOT | CHECK ORIGIN TYPE | 1AJ | 1727 |
| 3064 | 1103 | | LMK | TXOT | | 1AJ | 1728 |
| 3065 | 0413 | | ZJN | CCA1 | IF *TXOT* ORIGIN | 1AJ | 1729 |
| 3066 | 5000 1105 | | LDM | JBSC | | 1AJ16 | 2 |
| 3070 | 1107 | | LMN | SSSC | | 1AJ16 | 3 |
| 3071 | 0503 | | NJN | CCA0 | IF NOT A SUBSYSTEM | 1AJ16 | 4 |
| 3072 | 0100 3155 | | LJM | CCA5.1 | CONTINUE | 1AJ16 | 5 |
| | | | | | | 1AJ16 | 6 |
| 3074 | 5000 2500 | CCA0 | LDM | IJBE+1 | SET SRU LIMIT | 1AJ16 | 7 |
| 3076 | 0100 3133 | | LJM | CCA5 | CONTINUE | 1AJ | 1732 |
| | | | | | | 1AJ | 1733 |
| 3100 | 5000 7350 | CCA1 | LDM | VASS+AHMT*5+2 | TIME LIMIT INDEX | 1AJ | 1734 |
| 3102 | 0200 5130 | | RJM | TLI | TIME LIMIT INDEX | 1AJ | 1735 |
| 3104 | 2200 7777 | | LPC | 7777 | | 1AJ | 1736 |
| 3106 | 1003 | | SHN | 3 | MULTIPLY BY 10B | 1AJ | 1737 |
| 3107 | 2177 7677 | | ADC | -/REM/UTIS*10 | | 1AJ15 | 1 |
| 3111 | 0604 | | PJN | CCA2 | IF DEFAULT .LE. VALIDATION LIMIT | 1AJ | 1739 |
| 3112 | 2100 0100 | | ADC | /REM/UTIS*10 | USE VALIDATION LIMIT | 1AJ15 | 2 |
| 3114 | 0303 | | UJN | CCA3 | CONTINUE | 1AJ | 1741 |
| | | | | | | 1AJ | 1742 |
| 3115 | 2000 0100 | CCA2 | LDK | /REM/UTIS*10 | USE DEFAULT | 1AJ15 | 3 |
| 3117 | 5400 7131 | CCA3 | STM | JTSS+1 | | 1AJ | 1744 |
| 3121 | 1063 | | SHN | -14 | | 1AJ | 1745 |
| 3122 | 5400 7130 | | STM | JTSS | | 1AJ | 1746 |
| | | | | | | 1AJ | 1747 |
| | | | * | | SET SRU DEFAULT OR VALIDATION LIMIT | 1AJ | 1748 |
| | | | | | | 1AJ | 1749 |
| 3124 | 5000 2500 | | LDM | IJBE+1 | GET SRU VALIDATION INDEX | 1AJ | 1750 |
| 3126 | 1705 | | ADK | -DFSL/100 | | NS2516 | 2 |
| 3127 | 0603 | | PJN | CCA4 | IF DEFAULT .LE. VALIDATION LIMIT | 1AJ | 1754 |
| 3130 | 1605 | | ADK | DFSL/100 | | NS2516 | 3 |
| 3131 | 0302 | | UJN | CCA5 | CONTINUE | 1AJ | 1756 |
| | | | | | | 1AJ | 1757 |
| 3132 | 1405 | CCA4 | LDK | DFSL/100 | SET DEFAULT SRU LIMIT | NS2516 | 4 |
| 3133 | 2300 7777 | CCA5 | LMC | 7777 | | 1AJ27 | 4 |
| 3135 | 0503 | | NJN | CCA5.0 | IF NOT UNLIMITED | 1AJ27 | 5 |
| 3136 | 2077 0000 | | LDC | 770000 | | 1AJ27 | 6 |
| 3140 | 2300 7777 | CCA5.0 | LMC | 7777 | | 1AJ27 | 7 |
| 3142 | 5400 2460 | | STM | IJBB | | 1AJ | 1760 |

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| 3144 | 5400 | 2466 | STM | IJBC+1 | | 1AJ | 1761 | |
| 3146 | 1071 | | SHN | -6 | | 1AJ | 1762 | |
| 3147 | 1377 | | SCN | 77 | | 1AJ | 1763 | |
| 3150 | 5400 | 2467 | STM | IJBC+2 | | 1AJ | 1764 | |
| 3152 | 1177 | | LMN | 77 | | 1AJ | 1765 | |
| 3153 | 5400 | 2461 | STM | IJBB+1 | | 1AJ | 1766 | |
| | | | | | | 1AJ | 1767 | |
| | | | * | SET SRU MULTIPLIERS. | | 1AJ56 | 1 | |
| | | | | | | 1AJ56 | 2 | |
| 3155 | 3074 | | CCA5.1 | LDD | CP | WRITE *STLW* | 1AJ56A | 1 |
| 3156 | 1657 | | | ADK | STLW | | 1AJ56 | 4 |
| 3157 | 6370 | 2460 | | CWM | IJBB,ON | | 1AJ56 | 5 |
| 3161 | 3077 | | | LDD | MA | WRITE PARAMETERS INTO MESSAGE BUFFER | 1AJ56 | 6 |
| 3162 | 6370 | 2530 | | CWM | IJBK,ON | | 1AJ56 | 7 |
| 3164 | 1401 | | | LDN | ABBF | ACCOUNT BLOCK BEGIN (SUBFUNCTION) | 1AJ56 | 8 |
| 3165 | 3411 | | | STD | CM+1 | | 1AJ56 | 9 |
| 3166 | 1425 | | | MONITOR | ACTM | | 1AJ56 | 10 |
| | | | | | | | 1AJ56 | 11 |
| | | | * | SET JOB STEP TIME LIMIT. | | 1AJ | 1768 | |
| | | | | | | 1AJ | 1769 | |
| 3171 | 5000 | 7130 | | LDM | JTSS | | 1AJ56A | 2 |
| 3173 | 1014 | | | SHN | 14 | | 1AJ | 1771 |
| 3174 | 5300 | 7131 | | LMM | JTSS+1 | | 1AJ | 1772 |
| 3176 | 0410 | | | ZJN | CCA6 | IF NO TIME ON JOB COMMAND | V23L617 | 81 |
| 3177 | 1014 | | | SHN | 21-5 | | 1AJ | 1774 |
| 3200 | 5400 | 2473 | | STM | IJBD+1 | | 1AJ | 1775 |
| 3202 | 1071 | | | SHN | -6 | | 1AJ | 1776 |
| 3203 | 1377 | | | SCN | 77 | | 1AJ | 1777 |
| 3204 | 5400 | 2474 | | STM | IJBD+2 | | 1AJ | 1778 |
| | | | | | | | NS22000 | 120 |
| | | | * | SET PAGE PARAMETERS. | | NS22000 | 121 | |
| | | | | | | NS22000 | 122 | |
| 3206 | 1450 | | CCA6 | LDN | IPPL | GET SYSTEM PAGE PARAMETERS | 1AJ54 | 1 |
| 3207 | 6010 | | | CRD | CM | | NS22000 | 124 |
| 3210 | 1400 | | | LDN | 0 | | NS22000 | 125 |
| 3211 | 3410 | | | STD | CM | CLEAR UNRELATED BYTES | NS22000 | 126 |
| 3212 | 3411 | | | STD | CM+1 | | NS22000 | 127 |
| 3213 | 3055 | | | NFA | JPPN | | NS22000 | 128 |
| 3216 | 6210 | | | CWD | CM | SYSTEM VALUES AS JOB INITIAL DEFAULTS | NS22000 | 129 |
| | | | | | | | 1AJ | 1779 |
| | | | * | INITIALIZE RECALL AREA LINKS. | | 1AJ | 1780 | |
| | | | | | | 1AJ | 1781 | |
| 3217 | 1466 | | | LDN | ZERL | | 1AJ54 | 2 |
| 3220 | 6010 | | | CRD | CM | | 1AJ | 1783 |
| 3221 | 6032 | | | CRD | AB | CLEAR *FLCW* IMAGE | 1AJ | 1784 |
| 3222 | 6020 | | | CRD | FS | CLEAR *EOJW* IMAGE | 1AJ | 1785 |
| 3223 | 6040 | | | CRD | SP | CLEAR EXCHANGE PACKAGE EXIT WORD IMAGE | 1AJ | 1786 |
| 3224 | 6025 | | | CRD | CN | CLEAR *ELCW* IMAGE | 1AJ | 1787 |
| 3225 | 6060 | | | CRD | CW | CLEAR *PFCW* IMAGE | 1AJ | 1788 |
| 3226 | 1402 | | | LDN | 2 | | 1AJ | 1789 |
| 3227 | 3414 | | | STD | CM+4 | | 1AJ | 1790 |
| 3230 | 2000 | 0124 | CCA7 | LDC | RCCW-2 | | 1AJ | 1791 |
| 3232 | 3114 | | | ADD | CM+4 | | 1AJ | 1792 |
| 3233 | 3174 | | | ADD | CP | | 1AJ | 1793 |
| 3234 | 6210 | | | CWD | CM | | 1AJ | 1794 |
| 3235 | 3614 | | | AOD | CM+4 | | 1AJ | 1795 |
| 3236 | 1117 | | | LMN | LREC+1 | | 1AJ | 1796 |

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| 3237 | 0570 | | NJN | CCA7 | IF INITIALIZATION IS INCOMPLETE | 1AJ | 1797 |
| | | | | | | 1AJ | 1798 |
| | | | * | | SET ERROR EXIT MODE IN EXCHANGE PACKAGE. | 1AJ | 1799 |
| | | | | | | 1AJ | 1800 |
| 3240 | 2000 0113 | | LDK | MABL | | NS21000 | 36 |
| 3242 | 6010 | | CRD | CM | | 1AJ | 1802 |
| 3243 | 2000 7007 | | LDC | 7007 | | 1AJ | 1803 |
| 3245 | 3440 | | STD | SP | | 1AJ | 1804 |
| 3246 | 3011 | | LDD | CM+1 | | NS21000 | 37 |
| 3247 | 1066 | | SHN | -11 | | NS21000 | 38 |
| 3250 | 1107 | | LMN | 7 | | NS21000 | 39 |
| 3251 | 0502 | | NJN | CCA8 | IF NOT CYBER 176 | NS21000 | 40 |
| 3252 | 3740 | | SOD | SP | DESELECT UNDERFLOW | 1AJ | 1808 |
| 3253 | 3011 | CCA8 | LDD | CM+1 | CHECK FOR CYBER 170-8X5 | NS21000 | 41 |
| 3254 | 1006 | | SHN | 21-13 | | NS21000 | 42 |
| 3255 | 0722 | | MJN | CCA9 | IF NOT CYBER 170-8X5 | NS21000 | 43 |
| 3256 | 2000 0120 | | LDK | UEML | CHECK FOR UEM PRESENT | NS21000 | 44 |
| 3260 | 6010 | | CRD | CM | | 1AJ | 1813 |
| 3261 | 3014 | | LDD | CM+4 | | 1AJ | 1814 |
| 3262 | 1202 | | LPN | 2 | | 1AJ | 1815 |
| 3263 | 1007 | | SHN | 10-1 | | 1AJ | 1816 |
| 3264 | 3540 | | RAD | SP | SET/CLEAR UEM PRESENT FLAG | 1AJ | 1817 |
| 3265 | 5000 1106 | | LDM | JBOT | DON-T SET PURGING FLAG IF SYSTEM ORIGIN | 1AJ | 1818 |
| | | | LMK | SYOT | | 1AJ | 1819 |
| 3267 | 0410 | | ZJN | CCA9 | IF SYSTEM ORIGIN JOB | 1AJ | 1820 |
| 3270 | 1445 | | LDK | SSTL | SET EXTENDED PURGING BIT | 1AJ | 1821 |
| 3271 | 6010 | | CRD | CM | | 1AJ | 1822 |
| 3272 | 3013 | | LDD | CM+3 | | 1AJ | 1823 |
| 3273 | 1240 | | LPN | 40 | | 1AJ | 1824 |
| 3274 | 1140 | | LMN | 40 | | 1AJ | 1825 |
| 3275 | 1076 | | SHN | 4-5 | | 1AJ | 1826 |
| 3276 | 3540 | | RAD | SP | SET/CLEAR PURGING FLAG | 1AJ | 1827 |
| 3277 | 1477 | CCA9 | LDK | MEFL | | 252L678 | 1 |
| 3300 | 6010 | | CRD | CM | | 252L678 | 2 |
| 3301 | 3012 | | LDD | CM+2 | | 252L678 | 3 |
| 3302 | 2200 0200 | | LPC | 200 | EXPANDED ADDRESSING FLAG | 252L678 | 4 |
| 3304 | 3540 | | RAD | SP | | 252L678 | 5 |
| | | | | | | 1AJ | 1828 |
| | | | * | | DETERMINE MFL AND MAXFL FOR FL BY THE FOLLOWING FORMULA - | 1AJ | 1829 |
| | | | * | | | 1AJ | 1830 |
| | | | * | | A = MIN(JCSS, VALIDATED CM, MAXIMUM MACHINE SIZE). | 1AJ | 1831 |
| | | | * | | MFL, MAXFL = MAX(A, AFFL, JTFL). | 1AJ | 1832 |
| | | | * | | | 1AJ | 1833 |
| | | | * | | AFFL = *ACCFAM* FIELD LENGTH. | 1AJ | 1834 |
| | | | * | | JTFL = MAXIMUM OF *DAYFILE, MFILES* FIELD LENGTH. | 1AJ | 1835 |
| | | | | | | 1AJ | 1836 |
| 3305 | 5000 1106 | | LDM | JBOT | SET JOB ORIGIN | 252L678 | 6 |
| 3307 | 3401 | | STD | T1 | | NS2069 | 2 |
| 3310 | 5000 7351 | | LDM | VASS+AHMT*5+3 | GET MAXIMUM VALIDATED CM FL | NS2069 | 3 |
| 3312 | 0200 4670 | | RJM | CMX | COMPUTE MAXIMUM VALIDATED CM | 1AJ | 1838 |
| 3314 | 3432 | | STD | AB | SET MFL | 1AJ | 1839 |
| 3315 | 3434 | | STD | AB+2 | SET MAXFL | 1AJ | 1840 |
| 3316 | 5200 7125 | | SBM | JCSS | | 1AJ | 1841 |
| 3320 | 0705 | | MJN | CCA10 | IF SPECIFIED FL .GE. ALLOWABLE FL | 1AJ | 1842 |
| 3321 | 5000 7125 | | LDM | JCSS | USE SPECIFIED AS MFL AND MAXFL | 1AJ | 1843 |
| 3323 | 3432 | | STD | AB | | 1AJ | 1844 |
| 3324 | 3434 | | STD | AB+2 | | 1AJ | 1845 |

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|--|------|-----------|---|--|--------------------|---|---------|------|
| | | | | | | | 1AJ | 1846 |
| | | | * | DETERMINE IF FIELD LENGTH CALCULATED ABOVE IS GREATER | | | 1AJ | 1847 |
| | | | * | THAN OR EQUAL TO THE MINIMUM FL NEEDED TO EXECUTE JOB | | | 1AJ | 1848 |
| | | | * | TERMINATION. IF IT IS, USE THE FIELD LENGTH CALCULATED | | | 1AJ | 1849 |
| | | | * | ABOVE. IF IT IS NOT, USE THE MINIMUM FIELD LENGTH NEEDED | | | 1AJ | 1850 |
| | | | * | FOR JOB TERMINATION. | | | 1AJ | 1851 |
| | | | | | | | 1AJ | 1852 |
| | 3325 | 3032 | | CCA10 | LDD AB | COMPUTE MAX(AB, AFFL, JTFL) | 1AJ | 1853 |
| | 3326 | 2177 7501 | | | SBK IJFL | | 1AJ | 1854 |
| | 3330 | 0605 | | | PJN CCA11 | IF CALCULATED FL .GE. TERMINATION FL | 1AJ | 1855 |
| | 3331 | 2000 0276 | | | LDK IJFL | USE MINIMUM JOB TERMINATION FL | 1AJ | 1856 |
| | 3333 | 3432 | | | STD AB | SET MFL | 1AJ | 1857 |
| | 3334 | 3434 | | | STD AB+2 | SET MAXFL | 1AJ | 1858 |
| | | | | | | | 1AJ | 1859 |
| | | | * | DETERMINE MINIMUM OF SPECIFIED ECS FL AND VALIDATION ECS FL. | | | 1AJ | 1860 |
| | | | | | | | 1AJ | 1861 |
| | 3335 | 5000 7351 | | CCA11 | LDM VASS+AHMT*5+3 | GET VALIDATION INDEX FOR ECS | 1AJ | 1862 |
| | 3337 | 1277 | | | LPN 77 | | 1AJ | 1863 |
| | 3340 | 0200 5156 | | | RJM ECX | CALCULATE VALIDATION EXTENDED MEMORY FL | V23L617 | 82 |
| | 3342 | 3425 | | | STD CN | SET MFLE TO VALIDATION MAXIMUM | 1AJ | 1865 |
| | 3343 | 3427 | | | STD CN+2 | SET MAXFLE TO VALIDATION MAXIMUM | 1AJ | 1866 |
| | 3344 | 5200 7126 | | | SBM JESS | | 1AJ | 1867 |
| | 3346 | 0705 | | | MJN CCA12 | IF SPECIFIED ECS FL IS TOO BIG | 1AJ | 1868 |
| | 3347 | 5000 7126 | | | LDM JESS | USE SPECIFIED ECS FL AS MFLE AND MAXFLE | 1AJ | 1869 |
| | 3351 | 3425 | | | STD CN | | 1AJ | 1870 |
| | 3352 | 3427 | | | STD CN+2 | | 1AJ | 1871 |
| | | | | | | | 1AJ | 1872 |
| | | | * | FINISH BUILDING CPA. | | | 1AJ | 1873 |
| | | | | | | | 1AJ | 1874 |
| | 3353 | 0200 4201 | | CCA12 | RJM EOJ | BUILD *EOJW* IN *FS - FS+4* | 1AJ | 1875 |
| | 3355 | 0200 4605 | | | RJM PFC | BUILD *PFCW* IN *CW - CW+4* | 1AJ | 1876 |
| | | | 0 | | ERRNZ DFBJ-DFSO | CODE REQUIRES BATCH/SYSTEM DEFAULTS EQUAL | 1AJ | 1877 |
| | | | 0 | | ERRNZ DFBA-DFSO | CODE REQUIRES BATCH/SYSTEM DEFAULTS EQUAL | 1AJ | 1878 |
| | 3357 | 3074 | | | LDD CP | | 1AJ | 1879 |
| | 3360 | 1603 | | | ADN 3 | | 1AJ | 1880 |
| | 3361 | 6240 | | | CWD SP | | 1AJ | 1881 |
| | 3362 | 1655 | | | ADN SRJW-3 | WRITE *SRJW*, *CPJW* AND *FPFW* | 1AJ56 | 12 |
| | | | 0 | | ERRNZ CPJW-SRJW-1 | CODE ASSUMES *SRJW* AND *CPJW* CONTIGUOUS | 1AJ | 1884 |
| | | | 0 | | ERRNZ FPFW-CPJW-1 | CODE ASSUMES *CPJW* AND *FPFW* CONTIGUOUS | 1AJ54 | 3 |
| | 3363 | 6370 2465 | | | CWM IJBC,ON | WRITE *SRJW* | 1AJ | 1886 |
| | 3365 | 6370 2472 | | | CWM IJBD,ON | WRITE *CPJW* | 1AJ | 1887 |
| | 3367 | 6370 2477 | | | CWM IJBE,ON | WRITE *FPFW* | 1AJ54 | 4 |
| | 3371 | 1600 | | | ADN FLCW-FPFW-1 | | 1AJ54 | 5 |
| | 3372 | 6232 | | | CWD AB | | 1AJ | 1889 |
| | 3373 | 1601 | | | ADN ELCW-FLCW | | 1AJ | 1890 |
| | 3374 | 6225 | | | CWD CN | | 1AJ | 1891 |
| | 3375 | 1603 | | | ADN PFCW-ELCW | | 1AJ | 1892 |
| | 3376 | 6260 | | | CWD CW | | 1AJ | 1893 |
| | 3377 | 1607 | | | ADN ALMW-PFCW | | 1AJ | 1894 |
| | | | 0 | | ERRNZ DFBA-777777 | CODE REQUIRES *IJBFB - IJBFB+4* = 0 | 1AJ | 1895 |
| | 3400 | 6370 2561 | | | CWM IJBM,ON | WRITE *ALMW* | 1AJ | 1896 |
| | | | | | IFNE ACLW-ALMW,1,1 | | 1AJ | 1897 |
| | 3402 | 6370 2563 | | | CWM IJBM+2,ON | WRITE *ACLW* | 1AJ107 | 8 |
| | | | | | IFNE AACW-ACLW,1,1 | | 1AJ | 1900 |
| | 3404 | 6370 2561 | | | CWM IJBM,ON | WRITE *AACW* | 1AJ | 1902 |
| | 3406 | 1752 | | | SBN AACW+1-EOJW | | 1AJ | 1903 |
| | 3407 | 6220 | | | CWD FS | WRITE *EOJW* | 1AJ | 1904 |

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| 3410 | 1673 | | ADN | TSCW-EOJW | READ *TSCW* | 1AJ | 1905 |
| 3411 | 6010 | | CRD | CM | | 1AJ | 1906 |
| 3412 | 3420 | | STD | FS | | 1AJ | 1907 |
| 3413 | 2000 | 0106 | LDK | RTCL | COMPUTE CM SLICE | 1AJ | 1908 |
| 3415 | 6025 | | CRD | CN | | 1AJ | 1909 |
| 3416 | 3026 | | LDD | CN+1 | | 1AJ | 1910 |
| 3417 | 3511 | | RAD | CM+1 | | 1AJ | 1911 |
| 3420 | 1063 | | SHN | -14 | | 1AJ | 1912 |
| 3421 | 3125 | | ADD | CN | | 1AJ | 1913 |
| 3422 | 3410 | | STD | CM | | 1AJ | 1914 |
| 3423 | 3026 | | LDD | CN+1 | COMPUTE CONTROL POINT SLICE | 271L716 | 13 |
| 3424 | 3514 | | RAD | CM+4 | | 271L716 | 14 |
| 3425 | 1063 | | SHN | -14 | | 271L716 | 15 |
| 3426 | 3125 | | ADD | CN | | 271L716 | 16 |
| 3427 | 3413 | | STD | CM+3 | | 271L716 | 17 |
| 3430 | 3020 | | LDD | FS | WRITE *TSCW* | 1AJ | 1915 |
| 3431 | 6210 | | CWD | CM | | 1AJ | 1916 |
| 3432 | 1601 | | ADN | JSCW-TSCW | BUILD *JSCW* | NS22000 | 130 |
| 3433 | 3420 | | STD | FS | | NS22000 | 131 |
| 3434 | 5000 | 7065 | LDM | IOSS+5*INSQ+3 | SET JOB ACCESS LEVEL LIMIT | NS22000 | 132 |
| 3436 | 1207 | | LPN | 7 | | NS22000 | 133 |
| 3437 | 1011 | | SHN | 13-2 | | NS22000 | 134 |
| 3440 | 5500 | 7343 | RAM | VASS+5*ASVW+2 | | NS22000 | 135 |
| 3442 | 5000 | 7065 | LDM | IOSS+5*INSQ+3 | SET INITIAL JOB ACCESS LEVEL | NS22000 | 136 |
| 3444 | 1270 | | LPN | 70 | | NS22000 | 137 |
| 3445 | 1006 | | SHN | 13-5 | | NS22000 | 138 |
| 3446 | 5500 | 7342 | RAM | VASS+5*ASVW+1 | | NS22000 | 139 |
| 3450 | 3020 | | LDD | FS | WRITE *JSCW* | NS22000 | 140 |
| 3451 | 6370 | 7341 | CWM | VASS+5*ASVW,ON | | NS22000 | 141 |
| 3453 | 3074 | | LDD | CP | | NS22000 | 142 |
| 3454 | 2100 | 0121 | ADK | AALW | READ *AALW* | NS22000 | 143 |
| 3456 | 6010 | | CRD | CM | | NS22000 | 144 |
| 3457 | 3420 | | STD | FS | | NS22000 | 145 |
| 3460 | 5000 | 7314 | LDM | VASS+APRN*5+4 | GET APPLICATION ACCESS LEVEL | NS22000 | 146 |
| 3462 | 1071 | | SHN | -6 | | NS22000 | 147 |
| 3463 | 3414 | | STD | CM+4 | | NS22000 | 148 |
| 3464 | 3020 | | LDD | FS | | NS22000 | 149 |
| 3465 | 6210 | | CWD | CM | WRITE *AALW* | NS22000 | 150 |
| 3466 | 1466 | | LDN | ZERL | | NS22000 | 151 |
| 3467 | 6010 | | CRD | CM | | 1AJ | 1918 |
| 3470 | 3056 | | LDD | FL | | 1AJ | 1919 |
| 3471 | 0410 | | ZJN | CCA13 | IF NO CM FL IS ASSIGNED | 1AJ | 1920 |
| 3472 | 3055 | | LDD | RA | CLEAR RA - RA+2 | 1AJ | 1921 |
| 3473 | 1006 | | SHN | 6 | | 1AJ | 1922 |
| 3474 | 6210 | | CWD | CM | | 1AJ | 1923 |
| 3475 | 1601 | | ADN | 1 | | 1AJ | 1924 |
| 3476 | 6210 | | CWD | CM | | 1AJ | 1925 |
| 3477 | 1601 | | ADN | 1 | | 1AJ | 1926 |
| 3500 | 6210 | | CWD | CM | | 1AJ | 1927 |
| 3501 | 0100 | 3023 | LJM | CCAX | RETURN | NS2181B | 7 |
| | | | | | | 1AJ | 1944 |
| | | | CCA13 | | | 1AJ | 1945 |
| | | | CCAA | VFD | 42/5LINPUT,6/1,6/INFT,6/NDST | 1AJ111 | 1 |
| 3503 | 1116 | | | | | | |
| 3504 | 2025 | | | | | | |
| 3505 | 2400 | | | | | | |
| 3506 | 0001 | | | | | | |
| 3507 | 1707 | | | | | | |

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| | ** | | | CDD - CONVERT TO DECIMAL DISPLAY CODE. | | | 1AJ20 | 17 |
| | * | | | | | | 1AJ20 | 18 |
| | * | | | ENTRY (A) = INTEGER TO CONVERT. | | | 1AJ20 | 19 |
| 1 | * | | | | | | 1AJ20 | 20 |
| 2 | * | | | EXIT (CM+3 - CM+4) = DISPLAY CODE VALUE. | | | 1AJ20 | 21 |
| 3 | * | | | | | | 1AJ20 | 22 |
| 4 | * | | | USES CM - CM+4, T7. | | | 1AJ20 | 23 |
| 5 | * | | | | | | 1AJ20 | 24 |
| 6 | * | | | MACROS MONITOR. | | | 1AJ20 | 25 |
| 7 | | | | | | | 1AJ20 | 26 |
| 8 | | | | | | | 1AJ20 | 27 |
| 9 | | 3510 | 0100 3510 | CDD | SUBR | ENTRY/EXIT | 1AJ20 | 28 |
| 10 | | 3512 | 3414 | | STD CM+4 | SET UP CALL FOR *RDCM* | 1AJ20 | 29 |
| 11 | | 3513 | 1466 | | LDN ZERL | | 1AJ20 | 30 |
| 12 | | 3514 | 6007 | | CRD T7 | | 1AJ20 | 31 |
| 13 | | 3515 | 3077 | | LDD MA | | 1AJ20 | 32 |
| 14 | | 3516 | 6210 | | CWD CM | | 1AJ20 | 33 |
| 15 | | 3517 | 1440 | | MONITOR RDCM | CONVERT DATA | 1AJ20 | 34 |
| 16 | | 3522 | 3077 | | LDD MA | | 1AJ20 | 35 |
| 17 | | 3523 | 6010 | | CRD CM | | 1AJ20 | 36 |
| 18 | | 3524 | 3012 | | LDD CM+2 | REMOVE DECIMAL POINT | 1AJ20 | 37 |
| 19 | | 3525 | 1277 | | LPN 77 | | 1AJ20 | 38 |
| 20 | | 3526 | 1006 | | SHN 6 | | 1AJ20 | 39 |
| 21 | | 3527 | 3412 | | STD CM+2 | | 1AJ20 | 40 |
| 22 | | 3530 | 3013 | | LDD CM+3 | | 1AJ20 | 41 |
| 23 | | 3531 | 1277 | | LPN 77 | | 1AJ20 | 42 |
| 24 | | 3532 | 3312 | | LMD CM+2 | | 1AJ20 | 43 |
| 25 | | 3533 | 3413 | | STD CM+3 | | 1AJ20 | 44 |
| 26 | | 3534 | 0353 | | UJN CDDX | RETURN | 1AJ20 | 45 |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | ** | | | PNS - PROCESS NON-SUBSYSTEM JOB. | | | 1AJ | 1987 |
| 32 | * | | | | | | 1AJ | 1988 |
| 33 | * | | | PERFORM THAT PART OF JOB INITIATION PECULIAR TO NON-SUBSYSTEM | | | 1AJ | 1989 |
| 34 | * | | | JOBS. | | | 1AJ | 1990 |
| 35 | * | | | | | | 1AJ | 1991 |
| 36 | * | | | ENTRY *BFMS* CONTAINS INPUT FILE SYSTEM SECTOR. | | | 1AJ | 1992 |
| 37 | * | | | | | | 1AJ | 1993 |
| 38 | * | | | EXIT (A) .GE. 0 IF JOB SHOULD NOT BE TERMINATED. | | | 1AJ | 1994 |
| 39 | * | | | (A) .LT. 0 IF JOB SHOULD BE TERMINATED. | | | 1AJ | 1995 |
| 40 | * | | | | | | 1AJ | 1996 |
| 41 | * | | | USES TN, AB - AB+4, CM - CM+4. | | | NS2748 | 4 |
| 42 | * | | | | | | 1AJ | 1998 |
| 43 | * | | | CALLS BCS, IAM, ISD, RRR, SRR, STA. | | | NS2748 | 5 |
| 44 | * | | | | | | 1AJ | 2000 |
| 45 | * | | | MACROS SFA. | | | 1AJ | 2001 |
| 46 | | | | | | | 1AJ | 2002 |
| 47 | | | | | | | 1AJ | 2003 |
| 48 | | 3535 | 0100 3535 | PNS | SUBR | ENTRY/EXIT | 1AJ | 2004 |
| 49 | | 3537 | 0200 4072 | | RJM BCS | BUILD COMMAND BUFFER | V23L617 | 83 |
| 50 | | | | | | | 1AJ | 2006 |
| 51 | * | | | SET 026/029 PUNCH MODE FLAG IN CPA. | | | 1AJ | 2007 |
| 52 | | | | | | | 1AJ | 2008 |
| 53 | | 3541 | 1466 | | LDN ZERL | | 1AJ | 2009 |
| 54 | | 3542 | 6010 | | CRD CM | | 1AJ | 2010 |
| 55 | | | | | | | | |
| 56 | | | | | | | | |
| 57 | | | | | | | | |
| 58 | | | | | | | | |
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| 3543 | 5000 7127 | LDM | JFSS | | NS2006 | 1 | |
| 3545 | 1201 | LPN | 1 | | 1AJ | 2012 | |
| 3546 | 1012 | SHN | 12 | | 1AJ | 2013 | |
| 3547 | 3410 | STD | CM | | 1AJ | 2014 | |
| 3550 | 3074 | LDD | CP | | 1AJ | 2015 | |
| 3551 | 1630 | ADN | SNSW | | 1AJ | 2016 | |
| 3552 | 6210 | CWD | CM | | 1AJ | 2017 | |
| | | * | ISSUE JOB COMMAND TO DAYFILE. | | | V23L617 | 84 |
| 3553 | 2000 6253 | LDC | STMT | | 1AJ | 2020 | |
| 3555 | 0200 4400 | RJM | ISD | ISSUE COMMAND TO DAYFILE | V23L617 | 85 | |
| | | * | ISSUE ACCOUNTING MESSAGE TO DAYFILE. | | | 1AJ | 2023 |
| | | | | | 1AJ | 2024 | |
| | | | | | 1AJ | 2025 | |
| 3557 | 0200 4250 | RJM | IAM | ISSUE ACCOUNTING MESSAGE TO DAYFILE | 1AJ | 2026 | |
| | | * | CONTINUE BUILDING CONTROL POINT AREA. | | | 1AJ | 2027 |
| | | | | | 1AJ | 2028 | |
| 3561 | 3074 | LDD | CP | SET/CLEAR SSID FIELD | 1AJ | 2029 | |
| 3562 | 1626 | ADN | JCIW | | 1AJ | 2030 | |
| 3563 | 6010 | CRD | CM | | 1AJ | 2031 | |
| 3564 | 5000 7137 | LDM | SISS | | 1AJ | 2032 | |
| 3566 | 3412 | STD | CM+2 | | 1AJ | 2033 | |
| 3567 | 3074 | LDD | CP | | 1AJ | 2034 | |
| 3570 | 1626 | ADN | JCIW | | 1AJ | 2035 | |
| 3571 | 6210 | CWD | CM | | 1AJ | 2036 | |
| 3572 | 1642 | ADN | UIDW-JCIW | WRITE USER IDENTIFICATION | NS2323 | 57 | |
| 3573 | 6370 7202 | CWM | ACSS,ON | | NS22000 | 156 | |
| | | | | | 1AJ | 2048 | |
| | | * | IF THE JOB IS ON-LINE INTERACTIVE, STORE ITS TERMINAL NUMBER | | | 1AJ | 2049 |
| | | * | IN THE CONTROL POINT AREA AND STORE ITS EJT ORDINAL IN THE | | | 1AJ | 2050 |
| | | * | TERMINAL TABLE. | | | 1AJ | 2051 |
| 3575 | 5000 1106 | LDM | JBOT | CHECK JOB ORIGIN TYPE | 1AJ | 2052 | |
| 3577 | 1103 | LMK | TXOT | | 1AJ | 2053 | |
| 3600 | 0512 | NJN | PNS2 | IF NOT INTERACTIVE JOB | 1AJ | 2054 | |
| 3601 | 3045 | SFA | EJT,JO | SET EJT ADDRESS | 1AJ | 2055 | |
| | | ADK | JSNE | READ CONNECTION STATUS WORD | 1AJ | 2056 | |
| 3604 | 6010 | CRD | CM | | 1AJ | 2057 | |
| 3605 | 3014 | LDD | CM+4 | CHECK CONNECTION STATUS | 1AJ | 2058 | |
| 3606 | 1070 | SHN | -7 | | 1AJ | 2059 | |
| 3607 | 1217 | LPN | 17 | | 1AJ | 2060 | |
| 3610 | 1102 | LMK | OLCS | | 1AJ | 2061 | |
| 3611 | 0403 | ZJN | PNS3 | IF ONLINE | 1AJ | 2062 | |
| 3612 | 0100 3535 | LJM | PNSX | EXIT | 1AJ | 2063 | |
| | | | | | 1AJ | 2064 | |
| 3614 | 1466 | PNS3 | LDN | ZERL INITIALIZE *TTNW* | 1AJ | 2065 | |
| 3615 | 6010 | CRD | CM | | 1AJ | 2066 | |
| 3616 | 5000 7136 | LDM | TRSS | GET TERMINAL NUMBER FROM SYSTEM SECTOR | 1AJ | 2067 | |
| 3620 | 5400 1217 | STM | TSTN | SET JOB TERMINAL NUMBER | 1AJ | 2068 | |
| 3622 | 3411 | STD | CM+1 | | 1AJ | 2069 | |
| 3623 | 3437 | STD | TN | | 1AJ | 2070 | |
| 3624 | 5000 7135 | LDM | ISSS | LOAD INITIAL INTERACTIVE SUBSYSTEM | NS22000 | 157 | |
| 3626 | 1237 | LPN | 37 | | 261L700 | 2 | |
| 3627 | 1006 | SHN | 6 | | NS22000 | 158 | |
| 3630 | 3410 | STD | CM | | 1AJ | 2074 | |

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| 3631 | 3074 | | LDD | CP | WRITE *TTNW* | 1AJ | 2075 | |
| 3632 | 1666 | | ADK | TTNW | | 1AJ | 2076 | |
| 3633 | 6210 | | CWD | CM | | 1AJ | 2077 | |
| 3634 | 5000 | 1114 | LDM | TSAF | GET *IAF* CP NUMBER | 1AJ | 2078 | |
| 3636 | 0514 | | NJN | PNS4 | IF *IAF* IS ACCESSIBLE | 1AJ | 2079 | |
| 3637 | 5400 | 1217 | STM | TSTN | CLEAR TERMINAL NUMBER | 1AJ | 2080 | |
| 3641 | 1414 | | LDN | 12D | CHANGE CONNECTION STATUS TO *NICS* | 1AJ101 | 1 | |
| 3642 | 5400 | 2535 | STM | IJBL+0 | | 1AJ101 | 2 | |
| 3644 | 2000 | 0103 | LDC | 100+EXJS*2+1 | RESET JOB ADVANCE FLAG | 1AJ101 | 3 | |
| 3646 | 5400 | 2541 | STM | IJBL+4 | | 1AJ101 | 4 | |
| 3650 | 1500 | | LCN | 0 | INDICATE JOB MUST BE TERMINATED | 1AJ | 2081 | |
| 3651 | 0340 | | UJN | PNS2 | EXIT | 1AJ | 2082 | |
| | | | | | | 1AJ | 2083 | |
| | | | * | | STORE EJT ORDINAL IN TERMINAL TABLE. | 1AJ | 2084 | |
| | | | | | | 1AJ | 2085 | |
| 3652 | 0200 | 4751 | PNS4 | RJM | SRR | SET R-REGISTER TO IAF RA | NS2748 | 6 |
| 3654 | 0200 | 5517 | | RJM | STA | SET FWA OF TERMINAL TABLE | 1AJ | 2091 |
| | | | | ADK | /REM/VUIT | | 1AJ | 2092 |
| 3656 | 6032 | | CRD | AB | | 1AJ | 2093 | |
| 3657 | 3045 | | LDD | JO | STORE EJT ORDINAL IN TERMINAL TABLE | 1AJ | 2094 | |
| 3660 | 3436 | | STD | AB+4 | | 1AJ | 2095 | |
| 3661 | 3065 | | LDD | TT | | 1AJ | 2096 | |
| 3662 | 1014 | | SHN | 14 | | 1AJ | 2097 | |
| 3663 | 3366 | | LMD | TT+1 | | 1AJ | 2098 | |
| | | | ADK | /REM/VUIT | | 1AJ | 2099 | |
| 3664 | 6232 | | CWD | AB | | 1AJ | 2100 | |
| 3665 | 0200 | 4775 | RJM | RRR | RESTORE R-REGISTER | NS2748 | 7 | |
| 3667 | 1447 | | LDN | 1R* | CHANGE INPUT FILE TO INPUT* | 1AJ | 2101 | |
| 3670 | 5500 | 3505 | RAM | CCAA+2 | | 1AJ | 2102 | |
| 3672 | 0100 | 3535 | JMP | PNSX | RETURN | 1AJ | 2103 | |
| | | | ** | | PSS - PROCESS SUBSYSTEM. | 1AJ | 2105 | |
| | | | * | | | 1AJ | 2106 | |
| | | | * | | PERFORM THAT PART OF JOB INITIATION PECULIAR TO SUBSYSTEMS. | 1AJ | 2107 | |
| | | | * | | | 1AJ | 2108 | |
| | | | * | | ENTRY *BFMS* CONTAINS INPUT FILE SYSTEM SECTOR. | 1AJ | 2109 | |
| | | | * | | | 1AJ | 2110 | |
| | | | * | | EXIT (A) = 0 IF NO ERROR. | 1AJ | 2111 | |
| | | | * | | = SSID IF ERROR. | 1AJ | 2112 | |
| | | | * | | | 1AJ | 2113 | |
| | | | * | | USES T1, T2, CM - CM+4. | 1AJ | 2114 | |
| | | | * | | | 1AJ | 2115 | |
| | | | * | | ERROR PP HUNG IF SCP WITH NO CM FL ASSIGNED. | 1AJ | 2116 | |
| | | | * | | | 1AJ | 2117 | |
| | | | * | | CALLS BCS, IAM, ISD. | NS21000 | 56 | |
| | | | * | | | NS21000 | 57 | |
| | | | * | | MACROS MONITOR, NFA. | 1AJ | 2118 | |
| | | | | | | 1AJ | 2119 | |
| 3674 | 1400 | | PSS6 | LDN | 0 | SET EXIT CONDITION | 1AJ | 2120 |
| | | | | | | 1AJ | 2121 | |
| | | | | | | 1AJ | 2122 | |
| 3675 | 0100 | 3675 | PSS | SUBR | | ENTRY/EXIT | 1AJ | 2123 |
| 3677 | 3074 | | LDD | CP | | 1AJ | 2124 | |
| 3700 | 1626 | | ADN | JCIW | | 1AJ | 2125 | |

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| 3701 | 6010 | | CRD | CM | | 1AJ | 2126 |
| 3702 | 5000 7137 | | LDM | SISS | PLACE SUBSYSTEM IDENTIFIER IN CPA | 1AJ | 2127 |
| 3704 | 3412 | | STD | CM+2 | | 1AJ | 2128 |
| 3705 | 2300 7764 | | LMC | RDSI | | NS21000 | 58 |
| 3707 | 0504 | | NJN | PSS1 | IF NOT *RDF* | NS22000 | 159 |
| 3710 | 2000 7776 | | LDC | IFSI | SET *IAF* IDENTIFIER | NS21000 | 60 |
| 3712 | 3412 | | STD | CM+2 | | NS21000 | 61 |
| 3713 | 3074 | PSS1 | LDD | CP | | NS22000 | 160 |
| 3714 | 1626 | | ADN | JCIW | | 1AJ | 2130 |
| 3715 | 6210 | | CWD | CM | | 1AJ | 2131 |
| 3716 | 3046 | | LDD | EF | | NS22000 | 161 |
| 3717 | 0403 | | ZJN | PSS2 | IF NO ERROR FLAG SET | NS22000 | 162 |
| 3720 | 3012 | | LDD | CM+2 | SET EXIT CONDITION | NS22000 | 163 |
| 3721 | 0353 | | UJP | PSSX | RETURN | NS22000 | 164 |
| | | | | | | NS22000 | 165 |
| 3722 | 5000 7137 | PSS2 | LDM | SISS | CHECK SUBSYSTEM ID | NS22000 | 166 |
| 3724 | 2177 0031 | | SBK | LSSI+1 | | NS22000 | 167 |
| 3726 | 0714 | | MJN | PSS3 | IF PSEUDO SUBSYSTEM | NS22000 | 168 |
| 3727 | 2000 7776 | | LDC | MXSI | | NS22000 | 169 |
| 3731 | 5200 7137 | | SBM | SISS | | NS22000 | 170 |
| 3733 | 1001 | | SHN | 1 | | V22L602 | 38 |
| 3734 | 3401 | | STD | T1 | | NS22000 | 171 |
| 3735 | 5001 4007 | | LDM | TSPP,T1 | | NS22000 | 172 |
| 3737 | 0403 | | NJP | PSS6 | IF PP INITIATED SUBSYSTEM | NS21000 | 65 |
| | | | | | | NS21000 | 66 |
| | | * | | | READ COMMANDS FOR NON-PP-INITIATED SUBSYSTEM. | V23L617 | 86 |
| | | | | | | NS21000 | 68 |
| 3742 | 0200 4072 | PSS3 | RJM | BCS | BUILD COMMAND BUFFER | V23L617 | 87 |
| 3744 | 2000 6253 | | LDC | STMT | ISSUE JOB COMMAND TO DAYFILE | V23L617 | 88 |
| 3746 | 0200 4400 | | RJM | ISD | | NS21000 | 71 |
| 3750 | 0200 4250 | | RJM | IAM | ISSUE ACCOUNTING MESSAGE | NS21000 | 72 |
| 3752 | 3074 | | LDD | CP | SET UP *UIDW* | NS21000 | 73 |
| 3753 | 1670 | | ADN | UIDW | | NS21000 | 74 |
| 3754 | 6370 7202 | | CWM | ACSS,ON | | NS22000 | 176 |
| | | | | | | 1AJ | 2177 |
| | | * | | | CLEAR THE SUBSYSTEM IDENTIFICATION AND BUFFER POINTER WORDS. | V22L602 | 39 |
| | | | | | | 1AJ | 2180 |
| 3756 | 5000 7137 | | LDM | SISS | | 1AJ | 2181 |
| 3760 | 2177 0031 | | SBK | LSSI+1 | | V22L602 | 40 |
| 3762 | 0723 | | MJN | PSS5 | IF A PSEUDO SUBSYSTEM | V22L602 | 41 |
| 3763 | 3056 | | LDD | FL | | 1AJ | 2184 |
| 3764 | 0511 | | NJN | PSS4 | IF FL IS ASSIGNED | 1AJ | 2185 |
| | | * | LDN | 0 | | 241L630 | 37 |
| 3765 | 3412 | | STD | CM+2 | SET NO ERROR FLAG | 241L630 | 38 |
| 3766 | 2000 3766 | | LDC | * | | 241L630 | 39 |
| 3770 | 3411 | | STD | CM+1 | ADDRESS WHERE ERROR DETECTED | 241L630 | 40 |
| 3771 | 1421 | | MONITOR | CHGM | CONDITIONAL HANG FOR NO FL | 241L630 | 41 |
| 3774 | 0311 | | UJN | PSS5 | RETURN WITH NO ERROR | 241L630 | 42 |
| | | | | | | 1AJ | 2188 |
| 3775 | 1466 | PSS4 | LDN | ZERL | | 1AJ | 2189 |
| 3776 | 6010 | | CRD | CM | | 1AJ | 2190 |
| 3777 | 3055 | | LDD | RA | | 1AJ | 2191 |
| 4000 | 1006 | | SHN | 6 | | 1AJ | 2192 |
| 4001 | 1650 | | ADN | SSIW | | 1AJ | 2193 |
| 4002 | 6210 | | CWD | CM | | 1AJ | 2194 |
| 4003 | 1601 | | ADN | SSCR-SSIW | | 1AJ | 2195 |
| 4004 | 6210 | | CWD | CM | | 1AJ | 2196 |

4005 0100 3674 PSS5 LJM PSS6 RETURN 1AJ 2197

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| 3 | | * | | SUBSYSTEM TABLES. | | | | 1AJ | 2204 | 3 |
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| 8 | | ** | | TSPP - TABLE OF SUBSYSTEM PP NAMES. | | | | V22L602 | 42 | 8 |
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| 16 | | *T | | 18/ 0,6/ CPU | | | | 271L750 | 41 | 16 |
| 17 | | * | | | | | | 271L750 | 42 | 17 |
| 18 | | * | | CPU .NE. 0, IF SUBSYSTEM MUST RUN IN CPU 0 ON A DUAL CPU | | | | 271L750 | 43 | 18 |
| 19 | | * | | MACHINE WITH CACHE. | | | | 271L750 | 44 | 19 |
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| 22 | 4007 | | TSPP | INDEX | | | | V22L602 | 53 | 22 |
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| | ** | | | BCS | | BUILD COMMAND BUFFER. | V23L617 | 89 |
| | * | | | | | | 1AJ | 2259 |
| | * | | | ENTRY | | *BFMS* CONTAINS INPUT FILE SYSTEM SECTOR. | 1AJ | 2260 |
| 1 | * | | | | | I/O SEQUENCE HAS BEEN INITIATED. | 1AJ | 2261 |
| 2 | * | | | | | | 1AJ | 2262 |
| 3 | * | | | USES | | CN - CN+4, SP - SP+4. | 1AJ | 2263 |
| 4 | * | | | | | | 1AJ | 2264 |
| 5 | * | | | CALLS | | MSR, RCS, RNS. | 242L642 | 53 |
| 6 | * | | | | | | 1AJ | 2266 |
| 7 | * | | | MACROS | | ENDMS, NFA. | 1AJ | 2267 |
| 8 | | | | | | | 1AJ | 2268 |
| 9 | | | | | | | 1AJ | 2269 |
| 10 | | 4071 | 0100 4071 | BCS | SUBR | ENTRY/EXIT | 1AJ | 2270 |
| 11 | | 4073 | 1466 | | LDN | ZERL | 1AJ | 2271 |
| 12 | | 4074 | 6040 | | CRD | SP | 1AJ | 2272 |
| 13 | | 4075 | 1400 | | LDN | 0 | 1AJ | 2273 |
| 14 | | 4076 | 3431 | | STD | CN+4 | 1AJ | 2274 |
| 15 | | 4077 | 1401 | | LDN | FSMS | 1AJ | 2275 |
| 16 | | 4100 | 3407 | | STD | T7 | 1AJ | 2276 |
| 17 | | 4101 | 1601 | | ADN | 1 | 1AJ | 2277 |
| 18 | | 4102 | 3430 | | STD | CN+3 | 1AJ | 2278 |
| 19 | | 4103 | 3006 | | LDD | T6 | 1AJ | 2279 |
| 20 | | 4104 | 3426 | | STD | CN+1 | 1AJ | 2280 |
| 21 | | 4105 | 3427 | | STD | CN+2 | 1AJ | 2281 |
| 22 | | 4106 | 3005 | | LDD | T5 | 1AJ | 2282 |
| 23 | | 4107 | 2300 4000 | | LMC | 4000 | 1AJ | 2283 |
| 24 | | 4111 | 3425 | | STD | CN | 1AJ | 2284 |
| 25 | | 4112 | 2000 6253 | | LDC | SBUF | 1AJ | 2285 |
| 26 | | 4114 | 0200 5470 | | RJM | RNS | 1AJ | 2286 |
| 27 | | 4116 | 0732 | | MJN | BCS2.1 | 242L642 | 54 |
| 28 | | 4117 | 2000 0205 | | LDC | CSBN | V23L617 | 90 |
| 29 | | 4121 | 3443 | | STD | SP+3 | 1AJ | 2288 |
| 30 | | 4122 | 3201 | | SBD | T1 | 1AJ | 2289 |
| 31 | | 4123 | 3444 | | STD | SP+4 | 1AJ | 2290 |
| 32 | | 4124 | 3001 | | LDD | T1 | 1AJ | 2291 |
| 33 | | 4125 | 0413 | | ZJN | BCS1 | 1AJ | 2292 |
| 34 | | 4126 | 5600 1222 | | AOM | ADJB | NS2323 | 58 |
| 35 | | 4130 | 3055 | | NFA | SP+3,R | V23L617 | 91 |
| 36 | | 4133 | 6301 6255 | | CWM | SBUF+2,T1 | 1AJ | 2294 |
| 37 | | 4135 | 3001 | | LDD | T1 | 1AJ | 2295 |
| 38 | | 4136 | 1071 | | SHN | -6 | 1AJ | 2296 |
| 39 | | 4137 | 0505 | | NJN | BCS2 | 1AJ | 2297 |
| 40 | | 4140 | 2000 4000 | BCS1 | LDC | 4000 | 1AJ | 2298 |
| 41 | | 4142 | 3441 | | STD | SP+1 | 1AJ | 2299 |
| 42 | | 4143 | 0310 | | UJN | BCS3 | 1AJ | 2300 |
| 43 | | | | | | | 1AJ | 2301 |
| 44 | | | | * | | SKIP TO FIRST EOR SO INPUT FILE FST CAN BE BUILT WITH DISK | 1AJ | 2302 |
| 45 | | | | * | | ADDRESS SET TO THE START OF THE NEXT RECORD. | 1AJ | 2303 |
| 46 | | | | | | | 1AJ | 2304 |
| 47 | | 4144 | 2000 6253 | BCS2 | LDC | SBUF | 1AJ | 2305 |
| 48 | | 4146 | 0200 5470 | | RJM | RNS | 1AJ | 2306 |
| 49 | | 4150 | 0710 | BCS2.1 | MJN | BCS4 | 242L642 | 55 |
| 50 | | 4151 | 1071 | | SHN | -6 | 1AJ | 2307 |
| 51 | | 4152 | 0571 | | NJN | BCS2 | 1AJ | 2308 |
| 52 | | 4153 | 0200 0535 | BCS3 | ENDMS | | 1AJ | 2309 |
| 53 | | 4155 | 0200 5235 | | RJM | RCS | V23L617 | 92 |
| 54 | | 4157 | 0603 | | PJN | BCS5 | 242L642 | 56 |

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| 4160 | 0200 4460 | BCS4 | RJM | MSR | PROCESS MASS STORAGE ERROR, NO RETURN | 242L642 | 57 |
| | | | | | | 1AJ | 2311 |
| | | * | | | SET CHARGE REQUIRED FOR NON-SYSTEM ORIGIN JOBS. | NS2323 | 59 |
| 4162 | 5000 1106 | BCS5 | LDM | JBOT | | 242L642 | 58 |
| | | | LMK | SYOT | | NS2323 | 62 |
| 4164 | 0405 | | ZJN | BCS6 | IF SYSTEM ABORT | 242L642 | 59 |
| 4165 | 1404 | | LDN | 4 | SET CHARGE REQUIRED | NS2323 | 64 |
| 4166 | 5400 1251 | | STM | CRQF | | 1AJ116 | 12 |
| 4170 | 3540 | | RAD | SP | | NS2323 | 65 |
| | | | | | | NS2323 | 66 |
| | | * | | | WRITE UPDATED COMMAND BUFFER WORDS TO CM. | V23L617 | 93 |
| 4171 | 3074 | BCS6 | LDD | CP | | 1AJ | 2313 |
| 4172 | 1673 | | ADN | CSPW | | 242L642 | 60 |
| 4173 | 6240 | | CWD | SP | | 1AJ | 2315 |
| 4174 | 1601 | | ADN | CSSW-CSPW | | 1AJ | 2316 |
| 4175 | 6225 | | CWD | CN | | 1AJ | 2317 |
| 4176 | 0100 4071 | | LJM | BCSX | RETURN | 1AJ | 2318 |
| | | | | | | 1AJ | 2319 |
| | | ** | | | E0J - BUILD END OF JOB CONTROL WORD, *E0JW*. | 1AJ | 2321 |
| | | * | | | | 1AJ | 2322 |
| | | * | | | ENTRY (FS - FS+4) = ZERO WORD. | 1AJ | 2323 |
| | | * | | | | 1AJ | 2324 |
| | | * | | | EXIT (FS - FS+4) = *E0JW* WORD. | 1AJ | 2325 |
| | | * | | | (JTFG) = JOB TERMINATION FLAGS. | NS21000 | 87 |
| | | * | | | (JTOP) = JOB TERMINATION OPTIONS. | 1AJ21 | 3 |
| | | | | | | 1AJ | 2326 |
| | | | | | | 1AJ | 2327 |
| 4200 | 0100 4200 | E0J | SUBR | | ENTRY/EXIT | 1AJ | 2328 |
| 4202 | 5000 7054 | | LDM | IOSS+JSNQ*5+4 | GET FILE TYPE FROM QFT ENTRY | 1AJ | 2329 |
| 4204 | 1071 | | SHN | -6 | | 1AJ | 2330 |
| | | | LMK | INQF | CHECK FILE TYPE | 1AJ | 2331 |
| 4205 | 0415 | | ZJN | E0J2 | IF *INPUT QUEUE* TYPE | 1AJ | 2332 |
| 4206 | 1101 | | LMK | NOQF&INQF | | 1AJ | 2333 |
| 4207 | 0503 | | NJN | E0J1 | IF NOT *NO OUTPUT* FILE TYPE | 1AJ | 2334 |
| 4210 | 1401 | | LDK | NOJT | SELECT *DROP OUTPUT* | 1AJ | 2335 |
| 4211 | 0312 | | UJN | E0J3 | SET QUEUE FILE DISPOSITION | 1AJ | 2336 |
| | | | | | | 1AJ | 2337 |
| 4212 | 1106 | E0J1 | LMK | TOQF&NOQF | CHECK FILE TYPE | 1AJ | 2338 |
| 4213 | 0503 | | NJN | E0J1.1 | IF NOT *TERMINAL OUTPUT* | NS21000 | 88 |
| 4214 | 1402 | | LDK | TTJT | SELECT *QUEUE OUTPUT TO TERMINAL* | 1AJ | 2340 |
| 4215 | 0306 | | UJN | E0J3 | SET QUEUE FILE DISPOSITION | 1AJ | 2341 |
| | | | | | | 1AJ | 2342 |
| 4216 | 1101 | E0J1.1 | LMK | SOQF&TOQF | | NS21000 | 89 |
| 4217 | 0503 | | NJN | E0J2 | IF NOT *STATION OUTPUT* | NS21000 | 90 |
| 4220 | 1403 | | LDK | SSJT | SELECT *QUEUE OUTPUT TO STATION* | NS21000 | 91 |
| 4221 | 0302 | | UJN | E0J3 | SET QUEUE FILE DISPOSITION | NS21000 | 92 |
| | | | | | | NS21000 | 93 |
| 4222 | 1400 | E0J2 | LDK | Q0JT | SELECT *QUEUE ALL OUTPUT* | 1AJ | 2343 |
| 4223 | 1006 | E0J3 | SHN | 6 | STORE QUEUE FILE DISPOSITION | 1AJ | 2344 |
| 4224 | 3420 | | STD | FS | | 1AJ | 2345 |
| | | | | | | 1AJ | 2346 |
| | | * | | | SET DEFAULT JOB TERMINATION OPTION. | 1AJ | 2347 |

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| | 4225 | 5000 1106 | LDM | JBOT | | 1AJ | 2348 |
| | 4227 | 3423 | STD | FS+3 | SET JOB ORIGIN TYPE | 1AJ | 2349 |
| | 4230 | 1103 | LMK | TXOT | | 1AJ | 2350 |
| | 4231 | 0402 | ZJN | EOJ4 | IF INTERACTIVE JOB | 1AJ | 2351 |
| | 4232 | 1401 | LDK | TJJT&SUJT | | 1AJ | 2352 |
| | 4233 | 1101 | EOJ4 | LMK | SUJT | 1AJ | 2353 |
| | 4234 | 1011 | SHN | 11 | | 1AJ | 2354 |
| | 4235 | 3520 | RAD | FS | | 1AJ | 2355 |
| | 4236 | 1071 | SHN | -6 | | 241L630 | 43 |
| | 4237 | 5400 1111 | STM | JTFG | SET JOB TERMINATION FLAGS | NS21000 | 94 |
| | 4241 | 1074 | SHN | -3 | | 242L642 | 61 |
| | 4242 | 1203 | LPN | 3 | | 242L642 | 62 |
| | 4243 | 5400 1110 | STM | JTOP | | 1AJ21 | 6 |
| | 4245 | 0100 4200 | LJM | EOJX | RETURN | 1AJ21 | 7 |
| | | | | | | | |
| | | | ** | IAM | - ISSUE ACCOUNTING MESSAGE. | 1AJ | 2359 |
| | | | * | | | 1AJ | 2360 |
| | | | * | ENTRY | *BFMS* CONTAINS INPUT FILE SYSTEM SECTOR. | 1AJ | 2361 |
| | | | * | | | 1AJ | 2362 |
| | | | * | USES | T1, CM - CM+5. | 1AJ | 2363 |
| | | | * | | | 1AJ | 2364 |
| | | | * | CALLS | ACS, DFM. | 1AJ | 2365 |
| | | | * | | | 1AJ | 2366 |
| | | | * | MACROS | MONITOR. | 1AJ | 2367 |
| | | | | | | 1AJ | 2368 |
| | | | | | | 1AJ | 2369 |
| | 4247 | 0100 4247 | IAM | SUBR | ENTRY/EXIT | 1AJ | 2370 |
| | 4251 | 1466 | LDN | ZERL | | 1AJ | 2371 |
| | 4252 | 6010 | CRD | CM | | 1AJ | 2372 |
| | 4253 | 5000 7123 | LDM | CRSS | | 1AJ | 2373 |
| | 4255 | 3413 | STD | CM+3 | | 1AJ | 2374 |
| | 4256 | 5000 7124 | LDM | CRSS+1 | | 1AJ | 2375 |
| | 4260 | 3414 | STD | CM+4 | | 1AJ | 2376 |
| | 4261 | 3113 | ADD | CM+3 | | 1AJ | 2377 |
| | 4262 | 0464 | ZJN | IAMX | IF NO COMMAND COUNT | V23L617 | 94 |
| | 4263 | 3077 | LDD | MA | CONVERT COMMAND COUNT | V23L617 | 95 |
| | 4264 | 6210 | CWD | CM | | 1AJ | 2380 |
| | 4265 | 1440 | MONITOR | RDCM | | 1AJ | 2381 |
| | | | * | LDN | 0 | 1AJ | 2382 |
| | 4270 | 3415 | STD | CM+5 | | 1AJ | 2383 |
| | 4271 | 2000 6252 | LDC | MBUF | SET ASSEMBLY BUFFER ADDRESS FOR *ACS* | 1AJ | 2384 |
| | 4273 | 3401 | STD | T1 | | 1AJ | 2385 |
| | 4274 | 2000 4365 | LDC | IAMA | ASSEMBLE *UCCR, * CHARACTER STRING | 1AJ | 2386 |
| | 4276 | 0200 4645 | RJM | ACS | | 1AJ | 2387 |
| | 4300 | 5000 7165 | LDM | CMSS | ASSEMBLE CREATION MAINFRAME MACHINE ID | 1AJ | 2388 |
| | 4302 | 3410 | STD | CM | | 1AJ | 2389 |
| | 4303 | 1277 | LPN | 77 | | 1AJ | 2390 |
| | 4304 | 0503 | NJN | IAM1 | IF NOT SINGLE-CHARACTER MACHINE ID | 1AJ | 2391 |
| | 4305 | 1455 | LDN | 1R | BLANK-FILL MACHINE ID | 1AJ | 2392 |
| | 4306 | 3510 | RAD | CM | | 1AJ | 2393 |
| | 4307 | 1410 | IAM1 | LDN | CM | 1AJ | 2394 |
| | 4310 | 0200 4645 | RJM | ACS | | 1AJ | 2395 |
| | 4312 | 2000 4371 | LDC | IAMB | ASSEMBLE SEPARATOR | 1AJ | 2396 |

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|------|------|------|------|-----------|---|---------|------|
| 4314 | 0200 | 4645 | RJM | ACS | | 1AJ | 2397 |
| 4316 | 5000 | 7132 | LDM | TNSS | ASSEMBLE TERMINAL ID/EST ORDINAL | NS22000 | 177 |
| 4320 | 3410 | | STD | CM | | 1AJ | 2399 |
| 4321 | 5000 | 7133 | LDM | TNSS+1 | | 1AJ | 2400 |
| 4323 | 3411 | | STD | CM+1 | | 1AJ | 2401 |
| 4324 | 5000 | 7134 | LDM | TNSS+2 | | 1AJ | 2402 |
| 4326 | 3412 | | STD | CM+2 | | 1AJ | 2403 |
| 4327 | 5000 | 7135 | LDM | TNSS+3 | | 1AJ | 2404 |
| 4331 | 1377 | | SCN | 77 | | 1AJ | 2405 |
| 4332 | 3413 | | STD | CM+3 | | 1AJ | 2406 |
| 4333 | 1410 | | LDN | CM | | 1AJ | 2407 |
| 4334 | 0200 | 4645 | RJM | ACS | | 1AJ | 2408 |
| 4336 | 2000 | 4371 | LDC | IAMB | ASSEMBLE SEPARATOR | 1AJ | 2409 |
| 4340 | 0200 | 4645 | RJM | ACS | | 1AJ | 2410 |
| 4342 | 3077 | | LDD | MA | ASSEMBLE COMMAND COUNT | V23L617 | 96 |
| 4343 | 6010 | | CRD | CM | | 1AJ | 2412 |
| 4344 | 1410 | | LDN | CM | | 1AJ | 2413 |
| 4345 | 0200 | 4645 | RJM | ACS | | 1AJ | 2414 |
| 4347 | 2000 | 4373 | LDC | IAMC | ASSEMBLE UNITS | 1AJ | 2415 |
| 4351 | 0200 | 4645 | RJM | ACS | | 1AJ | 2416 |
| 4353 | 2005 | 6252 | LDC | MBUF+ACFN | ISSUE MESSAGE TO ACCOUNT DAYFILE | 1AJ | 2417 |
| 4355 | 0200 | 0423 | RJM | DFM | | 1AJ | 2418 |
| 4357 | 2003 | 6252 | LDC | MBUF+CPON | ISSUE MESSAGE TO USER DAYFILE | 1AJ | 2419 |
| 4361 | 0200 | 0423 | RJM | DFM | | 1AJ | 2420 |
| 4363 | 0100 | 4247 | LJM | IAMX | RETURN | 1AJ | 2421 |
| | | | | | | 1AJ | 2422 |
| | | | | | | 1AJ | 2423 |
| 4365 | 2503 | | IAMA | DATA | 6CUCCR, | 1AJ | 2424 |
| 4371 | 5655 | | IAMB | DATA | C*, * | 1AJ | 2425 |
| 4373 | 1303 | | IAMC | DATA | C*KCDS.* | 1AJ | 2426 |
| | | | | | | | |
| | | | ** | | ISD - ISSUE COMMAND TO DAYFILE. | V23L617 | 97 |
| | | | * | | | 1AJ | 2429 |
| | | | * | | ENTRY (A) = ADDRESS OF ZERO FILLED COMMAND. | V23L617 | 98 |
| | | | * | | | 1AJ | 2431 |
| | | | * | | USES T1, T2, T9. | 1AJ | 2432 |
| | | | * | | | 1AJ | 2433 |
| | | | * | | CALLS DFM. | 1AJ | 2434 |
| | | | | | | 1AJ | 2435 |
| | | | | | | 1AJ | 2436 |
| 4377 | 0100 | 4377 | ISD | SUBR | ENTRY/EXIT | 1AJ | 2437 |
| 4401 | 3402 | | STD | T2 | SET COMMAND ADDRESS | V23L617 | 99 |
| 4402 | 1631 | | ADN | 5*5 | SET END OF MESSAGE ADDRESS | 1AJ | 2439 |
| 4403 | 3403 | | STD | T3 | | 1AJ | 2440 |
| 4404 | 4003 | | LDI | T3 | SAVE END OF MESSAGE BYTE | 1AJ | 2441 |
| 4405 | 3417 | | STD | T9 | | 1AJ | 2442 |
| 4406 | 1400 | | LDN | 0 | ENSURE END OF MESSAGE | 1AJ | 2443 |
| 4407 | 4403 | | STI | T3 | | 1AJ | 2444 |
| 4410 | 4002 | | LDI | T2 | | 1AJ | 2445 |
| 4411 | 0465 | | ZJN | ISDX | IF NO JOB COMMAND | V23L617 | 100 |
| 4412 | 3002 | | LDD | T2 | ISSUE COMMAND TO DAYFILE | V23L617 | 101 |
| 4413 | 0200 | 0423 | RJM | DFM | | 1AJ | 2448 |
| 4415 | 3017 | | LDD | T9 | | 1AJ | 2449 |
| 4416 | 0460 | | ZJN | ISDX | IF COMMAND .LE. 50 CHARACTERS | V23L617 | 102 |

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| 4417 | 4403 | | | STI | T3 | | 1AJ | 2451 |
| 4420 | 3003 | | | LDD | T3 | ISSUE REMAINDER OF COMMAND | V23L617 | 103 |
| 4421 | 2301 | 0000 | | LMC | NMSN | | 1AJ | 2453 |
| 4423 | 0200 | 0423 | | RJM | DFM | | 1AJ | 2454 |
| 4425 | 0351 | | | UJN | ISDX | RETURN | 1AJ | 2455 |
| | | | | ** | | IUT - ISSUE *UTEM* MONITOR FUNCTION TO UPDATE EJT ENTRY. | 1AJ | 2457 |
| | | | | * | | | 1AJ | 2458 |
| | | | | * | | ENTRY (A) = 6/ C,12/ P | 1AJ | 2459 |
| | | | | * | | C = NUMBER OF *UTEM* PARAMETER WORDS. | 1AJ | 2460 |
| | | | | * | | P = PARAMETER LIST ADDRESS. | 1AJ | 2461 |
| | | | | * | | | 1AJ | 2462 |
| | | | | * | | EXIT (A) = 0 IF *UTEM* FUNCTION WAS SUCCESSFUL. | 1AJ | 2463 |
| | | | | * | | .NE. 0 IF *UTEM* VERIFICATION FAILED. | 1AJ | 2464 |
| | | | | * | | | 1AJ | 2465 |
| | | | | * | | USES CM - CM+4. | 1AJ | 2466 |
| | | | | * | | | 1AJ | 2467 |
| | | | | * | | MACROS MONITOR, SFA. | 1AJ | 2468 |
| | | | | | | | 1AJ | 2469 |
| | | | | | | | 1AJ | 2470 |
| 4426 | 0100 | 4426 | | IUT | SUBR | ENTRY/EXIT | 1AJ | 2471 |
| 4430 | 5400 | 4450 | | STM | IUTA | PARAMETER LIST ADDRESS | 1AJ | 2472 |
| 4432 | 1063 | | | SHN | -14 | | 1AJ | 2473 |
| 4433 | 3411 | | | STD | CM+1 | NUMBER OF PARAMETER WORDS | 1AJ | 2474 |
| 4434 | 1400 | | | LDN | 0 | | 1AJ | 2475 |
| 4435 | 3412 | | | STD | CM+2 | | 1AJ | 2476 |
| 4436 | 3045 | | | SFA | EJT,JO | CALCULATE EJT ENTRY ADDRESS | 1AJ | 2477 |
| 4441 | 3414 | | | STD | CM+4 | | 1AJ | 2478 |
| 4442 | 1063 | | | SHN | -14 | | 1AJ | 2479 |
| 4443 | 3413 | | | STD | CM+3 | | 1AJ | 2480 |
| 4444 | 3011 | | | LDD | CM+1 | | 1AJ | 2481 |
| 4445 | 0404 | | | ZJN | IUT1 | IF NO PARAMETER WORDS | 1AJ | 2482 |
| 4446 | 3077 | | | LDD | MA | WRITE PARAMETERS TO MESSAGE BUFFER | 1AJ | 2483 |
| 4447 | 6311 | 0000 | | CWM | ** , CM+1 | | 1AJ | 2484 |
| | | | 4450 | EQU | *-1 | | 1AJ | 2485 |
| 4451 | 2000 | 0115 | | IUTA | | | 1AJ | 2486 |
| | | | | IUT1 | MONITOR UTEM | | 1AJ | 2487 |
| 4455 | 3011 | | | LDD | CM+1 | | 1AJ | 2487 |
| 4456 | 0347 | | | UJN | IUTX | RETURN | 1AJ | 2488 |

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| Line | Address | Code | Label | Description | Address | Count |
|------|---------|-----------|-------|---|---------|-------|
| | 4522 | | MSRB | C* INCORRECT INPUT FILE SYSTEM SECTOR.* | 1AJ | 2527 |
| | 4545 | 5511 | MSRC | C* MASS STORAGE ERROR.* | V23L617 | 106 |
| | | 5515 | | | 1AJ | 2529 |
| 1 | | | | *UTEM* PARAMETERS. | 242L642 | 92 |
| 2 | | | | | 242L642 | 93 |
| 3 | | | | | 242L642 | 94 |
| 4 | 4560 | 0136 | MSRD | 1/0,5/SCHE,6/30D | 242L642 | 95 |
| 5 | 4561 | 0000 | | VFD 6/0,6/0 | 242L642 | 96 |
| 6 | 4562 | 0077 | | VFD 6/0,6/77 | 242L642 | 97 |
| 7 | 4563 | 7000 | | VFD 3/7,9/ EST ORDINAL | 242L642 | 98 |
| 8 | 4564 | 0000 | | CON WISE | 242L642 | 99 |
| 9 | | | | | 242L642 | 100 |
| 10 | 4565 | 0214 | | VFD 1/0,5/PRFE,6/12D | 242L642 | 101 |
| 11 | 4566 | 4400 | | VFD 6/36D,6/0 | 242L642 | 102 |
| 12 | 4567 | 0000 | | CON 0 | 242L642 | 103 |
| 13 | 4570 | 0000 | | CON 0 | 242L642 | 104 |
| 14 | 4571 | 0000 | | CON 0 | 242L642 | 105 |
| 15 | | | | | 242L642 | 106 |
| 16 | 4572 | 0006 | | VFD 1/0,5/JSNE,6/6 | 242L642 | 107 |
| 17 | 4573 | 0000 | | VFD 6/0,6/0 | 242L642 | 108 |
| 18 | 4574 | 0000 | | CON 0 | 242L642 | 109 |
| 19 | 4575 | 0000 | | CON 0 | 242L642 | 110 |
| 20 | 4576 | 0031 | | CON PWJS*2+1 | 242L642 | 111 |
| 21 | | | | | 242L642 | 112 |
| 22 | 4577 | 0301 | | VFD 1/0,5/SCLE,6/1 CLEAR FORCED ROLLIN | 242L642 | 113 |
| 23 | 4600 | 6400 | | VFD 6/52D,6/0 | 242L642 | 114 |
| 24 | 4601 | 0000 | | CON 0 | 242L642 | 115 |
| 25 | 4602 | 0000 | | CON 0 | 242L642 | 116 |
| 26 | 4603 | 0000 | | CON 0 | 242L642 | 117 |
| 27 | | | | | 242L642 | 118 |
| 28 | | 4 | MSRD | EQU */5-MSRD/5 | 242L642 | 119 |
| 29 | | | | | | |
| 30 | | | | | | |
| 31 | | | | | | |
| 32 | | | | | | |
| 33 | | | ** | PFC - BUILD PF CONTROL WORD, *PFCW*. | 1AJ | 2531 |
| 34 | | | * | | 1AJ | 2532 |
| 35 | | | * | SETS FAMILY EST ORDINAL AND INCREMENTS FAMILY | NS22000 | 178 |
| 36 | | | * | USER COUNT IN THE MST. | 1AJ | 2534 |
| 37 | | | * | | 1AJ | 2535 |
| 38 | | | * | ENTRY (CW - CW+4) = ZERO WORD. | 1AJ | 2536 |
| 39 | | | * | | 1AJ | 2537 |
| 40 | | | * | EXIT (CW - CW+4) = *PFCW* WORD. | 1AJ | 2538 |
| 41 | | | * | | 1AJ | 2539 |
| 42 | | | * | USES CM - CM+4. | 1AJ | 2540 |
| 43 | | | * | | 1AJ | 2541 |
| 44 | | | * | MACROS MONITOR. | 1AJ | 2542 |
| 45 | | | | | 1AJ | 2543 |
| 46 | | | | | 1AJ | 2544 |
| 47 | 4604 | 0100 4604 | PFC | SUBR ENTRY/EXIT | 1AJ | 2545 |
| 48 | 4606 | 5000 1105 | | LDM JBSC CHECK JOB SERVICE CLASS | 1AJ | 2546 |
| 49 | 4610 | 1123 | | LMK DSSC | 1AJ | 2547 |
| 50 | 4611 | 0504 | | NJN PFC1 IF NOT DEADSTART SEQUENCING JOB | 1AJ | 2548 |
| 51 | 4612 | 1402 | | LDK NEEQ SET NULL FAMILY EQUIPMENT | 1AJ | 2549 |
| 52 | 4613 | 3463 | | STD CW+3 | 1AJ | 2550 |
| 53 | 4614 | 0367 | | UJN PFCX RETURN | 1AJ | 2551 |
| 54 | | | | | 1AJ | 2552 |
| 55 | | | | | | |
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| Line | Address | Code | Label | Description | Address | Count | |
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| | | * | SET DEFAULT FAMILY ORDINAL AND INCREMENT FAMILY COUNT. | | | 1AJ | 2553 |
| | | | | | 1AJ | 2554 | |
| | 4615 | 2000 0107 | PFC1 | LDK PFNL | READ PF ACTIVITY CONTROL | 1AJ 2555 | |
| 1 | 4617 | 6010 | | CRD CM | | 1AJ 2556 | |
| 2 | 4620 | 3013 | | LDD CM+3 | SET DEFAULT FAMILY EQUIPMENT | 1AJ 2557 | |
| 3 | 4621 | 3463 | | STD CW+3 | | 1AJ 2558 | |
| 4 | 4622 | 3411 | | STD CM+1 | FORMAT *STBM* REQUEST | 1AJ 2559 | |
| 5 | 4623 | 1406 | | LDK IFCS | SET *INCREMENT USER COUNT* FUNCTION | 1AJ 2560 | |
| 6 | 4624 | 3413 | | STD CM+3 | | 1AJ 2561 | |
| 7 | 4625 | 1442 | | MONITOR SMDM | INCREMENT FAMILY USER COUNT | 253L688 56 | |
| 8 | 4630 | 0353 | | UJP PFCX | RETURN | 1AJ 2563 | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | ** | COMMON DECKS. | | 1AJ 2565 | |
| 14 | | | | | | 1AJ 2566 | |
| 15 | | | | | | 1AJ 2567 | |
| 16 | 4631 | | | CTEXT COMPACS | - ASSEMBLE CHARACTER STRING. | COMPACS 1 | |
| 17 | 4667 | | | CTEXT COMPCMX | - COMPUTE MAXIMUM FIELD LENGTH. | COMPCMX 1 | |
| 18 | | 1 PRR\$ | | EQU 1 | FORCE REMOTE ASSEMBLY OF *PRR* AND *PIR* | NS2748 8 | |
| 19 | | 1 PIR\$ | | EQU 1 | SELECT ASSEMBLY OF *PIR* FOR IAF R-REG | NS2748 9 | |
| 20 | 4750 | | | CTEXT COMPSRR | - SET R-REGISTER. | COMPSRR 1 | |
| 21 | | 1 CMI\$ | | SET 1 | SELECT CENTRAL MEMORY INDEX CONVERSION | 1AJ 2570 | |
| 22 | | 1 ECI\$ | | SET 1 | SELECT EXTENDED MEMORY INDEX CONVERSION | V23L617 107 | |
| 23 | | 1 SLI\$ | | SET 1 | SELECT SRU VALIDATION CONVERSION | 1AJ 2572 | |
| 24 | | 1 TLI\$ | | SET 1 | SELECT TIME LIMIT CONVERSION | 1AJ 2573 | |
| 25 | 5031 | | | CTEXT COMPCVI | - CONVERT VALIDATION INDICES. | COMPCVI 1 | |
| 26 | 5142 | | | CTEXT COMPC2D | - CONVERT 2 OCTAL DIGITS TO DISPLAY CODE. | COMPC2D 1 | |
| 27 | 5154 | | | CTEXT COMPECX | - COMPUTE USER EXTENDED MEMORY MAXIMUM FL. | 252L678 1 | |
| 28 | 5201 | | | CTEXT COMPNFL | - REQUEST NEGATIVE FL. | COMPNFL 1 | |
| 29 | 5234 | | | CTEXT COMPRCS | - READ CONTROL STATEMENT. | COMPRCS 1 | |
| 30 | 5466 | | | CTEXT COMPRNS | - READ NEXT SECTOR. | COMPRNS 1 | |
| 31 | 5516 | | | CTEXT COMPSTA | - SET TERMINAL TABLE ADDRESS. | COMPSTA 1 | |
| 32 | | | | | | | |
| 33 | | | | | | | |
| 34 | | | | | | | |
| 35 | | | | | | | |
| 36 | | | | USE BUFFERS | | 1AJ 2583 | |
| 37 | 6252 | 0000 | MBUF | CON 0 | ACCOUNT MESSAGE ASSEMBLY BUFFER | 1AJ 2584 | |
| 38 | 6253 | | STMT | BSS 0 | COMMAND BUFFER | V23L617 108 | |
| 39 | 6253 | | SBUF | BSS 0 | | 1AJ 2586 | |
| 40 | | | | | | | |
| 41 | | | | | | | |
| 42 | | | | | | | |
| 43 | | | | | | | |
| 44 | | 20 | ERRNG | BFMS-1-SBUF-502B | BUFFER OVERFLOW INTO *BFMS* | 271L750 47 | |
| 45 | | | | | | | |
| 46 | | | | | | | |
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| Line | Address | Code | Label | Comment | NS2308 | Count |
|------|---------|------|--------|---|---------|-------|
| 1 | | ** | CCP | CLEAR CONTROL POINT AREA. | NS2308 | 9 |
| 2 | | * | | | NS2308 | 10 |
| 3 | | * | ENTRY | (CP) = CONTROL POINT AREA ADDRESS. | NS2308 | 11 |
| 4 | | * | | | NS2308 | 12 |
| 5 | | * | USES | T1, T2, CM - CM+4. | NS2308 | 13 |
| 6 | | * | | | NS2308 | 14 |
| 7 | | * | MACROS | PAUSE. | NS2308 | 15 |
| 8 | 6253 | 0100 | 6253 | CCP SUBR ENTRY/EXIT | NS2308 | 18 |
| 9 | 6255 | 1400 | | CCP1 PAUSE CHECK PP COUNT | NS2308 | 19 |
| 10 | 6263 | 3010 | | LDD CM | NS2308 | 20 |
| 11 | 6264 | 1701 | | SBN 1 | NS2308 | 21 |
| 12 | 6265 | 0567 | | NJN CCP1 IF OTHER PP-S ASSIGNED | NS2308 | 22 |
| 13 | 6266 | 1412 | | LDN CCPAL INITIALIZE TABLE INDEX | NS2308 | 23 |
| 14 | 6267 | 3401 | | STD T1 | NS2308 | 24 |
| 15 | 6270 | 2000 | 0200 | LDC 200 INITIALIZE WORD OFFSET | NS2308 | 25 |
| 16 | 6272 | 3402 | | STD T2 | NS2308 | 26 |
| 17 | 6273 | 1466 | | LDN ZERL | NS2308 | 27 |
| 18 | 6274 | 6010 | | CRD CM | NS2308 | 28 |
| 19 | 6275 | 3701 | | CCP2 SOD T1 DECREMENT TABLE INDEX | NS2308 | 29 |
| 20 | 6276 | 3702 | | CCP3 SOD T2 DECREMENT WORD OFFSET | NS2308 | 30 |
| 21 | 6277 | 0753 | | MJN CCPX IF CPA CLEARED | NS2308 | 31 |
| 22 | 6300 | 5301 | 6307 | LMM CCPA, T1 | NS2308 | 32 |
| 23 | 6302 | 0472 | | ZJN CCP2 IF WORD SHOULD NOT BE CLEARED | NS2308 | 33 |
| 24 | 6303 | 3002 | | LDD T2 CLEAR CPA WORD | NS2308 | 34 |
| 25 | 6304 | 3174 | | ADD CP | NS2308 | 35 |
| 26 | 6305 | 6210 | | CWD CM | NS2308 | 36 |
| 27 | 6306 | 0367 | | UJN CCP3 CHECK NEXT WORD | NS2308 | 37 |
| 28 | | | | | NS2308 | 38 |
| 29 | | * | | TABLE OF PRESERVED CONTROL POINT AREA WORDS. ENTRIES MUST | NS2308 | 40 |
| 30 | | * | | BE ORDERED BY ASCENDING ADDRESSES. | NS2308 | 41 |
| 31 | | | | | NS2308 | 42 |
| 32 | 6307 | 7777 | | CCPA CON -0 | NS2308 | 43 |
| 33 | 6310 | 0006 | | CON 6 MA WORD OF EXCHANGE PACKAGE | NS2308 | 44 |
| 34 | 6311 | 0007 | | CON 7 EEA WORD OF EXCHANGE PACKAGE | NS2308 | 45 |
| 35 | 6312 | 0020 | | CON STSW | NS2308 | 46 |
| 36 | 6313 | 0021 | | CON CWQW | 271L750 | 48 |
| 37 | 6314 | 0023 | | CON FLSW | 271L750 | 49 |
| 38 | 6315 | 0025 | | CON ECSW | 271L750 | 50 |
| 39 | 6316 | 0026 | | CON JCIW | NS2308 | 47 |
| 40 | 6317 | 0072 | | CON TFSW | NS2308 | 50 |
| 41 | 6320 | 0122 | | CON TSCW | NS2308 | 51 |
| 42 | | 12 | CCPAL | EQU *-CCPA TABLE LENGTH | NS2308 | 52 |
| 43 | | | | | | |
| 44 | | | | | | |
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| | | | ** | AFL - ADJUST FL AND RA. | | | 242L642 | 122 | |
| | | | * | | | | 242L642 | 123 | |
| | | | * | ADJUST RA AND FL TO ACCOUNT FOR NFL. CLEAR NFL AND | | | 242L642 | 124 | |
| 1 | | | * | INITIALIZE DAYFILE BUFFER CONTROL WORDS IN NFL. | | | 242L642 | 125 | |
| 2 | | | * | | | | 242L642 | 126 | |
| 3 | | | * | USES CM - CM+4, CN - CN+4, RA, FL. | | | 242L642 | 127 | |
| 4 | | | * | | | | 242L642 | 128 | |
| 5 | | | * | MACROS MONITOR, NFA. | | | 242L642 | 129 | |
| 6 | | | | | | | 242L642 | 130 | |
| 7 | | | | | | | 242L642 | 131 | |
| 8 | 6321 | 0100 6321 | | AFL | SUBR | ENTRY/EXIT | 242L642 | 132 | |
| 9 | 6323 | 1466 | | LDN | ZERL | CLEAR *FLSW* IMAGE | 242L642 | 133 | |
| 10 | 6324 | 6025 | | CRD | CN | | 242L642 | 134 | |
| 11 | 6325 | 1505 | | LCN | DNFL | ADJUST FL | 242L642 | 135 | |
| 12 | 6326 | 3556 | | RAD | FL | | 242L642 | 136 | |
| 13 | 6327 | 0605 | | PJN | AFL1 | IF SUFFICIENT CM FL ASSIGNED | 242L642 | 137 | |
| 14 | 6330 | 1422 | | MONITOR | HNGM | | 242L642 | 138 | |
| 15 | 6333 | 0300 | | UJN | * | HANG PP | 242L642 | 139 | |
| 16 | | | | | | | 242L642 | 140 | |
| 17 | 6334 | 3431 | | AFL1 | STD | CN+4 | SAVE ADJUSTED CM FL | 242L642 | 141 |
| 18 | 6335 | 1400 | | LDN | 0 | SET (T1,T2) = RA | 242L642 | 142 | |
| 19 | 6336 | 3401 | | STD | T1 | | 242L642 | 143 | |
| 20 | 6337 | 3055 | | LDD | RA | | 242L642 | 144 | |
| 21 | 6340 | 3402 | | STD | T2 | | 242L642 | 145 | |
| 22 | 6341 | 2501 | | SRD | T1 | (NO-OP UNLESS CME PRESENT) | 242L642 | 146 | |
| 23 | 6342 | 1405 | | LDN | DNFL | SET NFL IN *FLSW* | 242L642 | 147 | |
| 24 | 6343 | 3425 | | STD | CN | | 242L642 | 148 | |
| 25 | 6344 | 3502 | | RAD | T2 | ADJUST RA IN *FLSW* | 242L642 | 149 | |
| 26 | 6345 | 3430 | | STD | CN+3 | | 242L642 | 150 | |
| 27 | 6346 | 1063 | | SHN | -14 | | 242L642 | 151 | |
| 28 | 6347 | 3501 | | RAD | T1 | | 242L642 | 152 | |
| 29 | 6350 | 3427 | | STD | CN+2 | | 242L642 | 153 | |
| 30 | 6351 | 3025 | | LDD | CN | FORM *FLSW+1* | 242L642 | 154 | |
| 31 | 6352 | 2300 4000 | | LMC | 4000 | | 242L642 | 155 | |
| 32 | 6354 | 3413 | | STD | CM+3 | | 242L642 | 156 | |
| 33 | 6355 | 3031 | | LDD | CN+4 | | 242L642 | 157 | |
| 34 | 6356 | 3414 | | STD | CM+4 | | 242L642 | 158 | |
| 35 | 6357 | 1400 | | LDN | 0 | | 242L642 | 159 | |
| 36 | 6360 | 3410 | | STD | CM | | 242L642 | 160 | |
| 37 | 6361 | 3027 | | LDD | CN+2 | | 242L642 | 161 | |
| 38 | 6362 | 1014 | | SHN | 14 | | 242L642 | 162 | |
| 39 | 6363 | 3130 | | ADD | CN+3 | | 242L642 | 163 | |
| 40 | 6364 | 3225 | | SBD | CN | | 242L642 | 164 | |
| 41 | 6365 | 3412 | | STD | CM+2 | | 242L642 | 165 | |
| 42 | 6366 | 1063 | | SHN | -14 | | 242L642 | 166 | |
| 43 | 6367 | 3411 | | STD | CM+1 | | 242L642 | 167 | |
| 44 | 6370 | 3074 | | LDD | CP | UPDATE *FLSW* AND *FLSW+1* | 242L642 | 168 | |
| 45 | 6371 | 1623 | | ADN | FLSW | | 242L642 | 169 | |
| 46 | 6372 | 6225 | | CWD | CN | | 242L642 | 170 | |
| 47 | 6373 | 1601 | | ADN | 1 | | 242L642 | 171 | |
| 48 | 6374 | 6210 | | CWD | CM | | 242L642 | 172 | |
| 49 | | | | | | | 242L642 | 173 | |
| 50 | | | * | STORE ADJUSTED RA AND FL IN THE EXCHANGE PACKAGE. | | | 242L642 | 174 | |
| 51 | | | | | | | 242L642 | 175 | |
| 52 | 6375 | 1466 | | LDN | ZERL | | 242L642 | 176 | |
| 53 | 6376 | 6010 | | CRD | CM | | 242L642 | 177 | |
| 54 | 6377 | 6025 | | CRD | CN | | 242L642 | 178 | |

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| | | | | | | |
|------|-----------|---------|--|-------------------------------------|---------|-----|
| 6400 | 3002 | LDD | T2 | SET RA | 242L642 | 179 |
| 6401 | 1006 | SHN | 6 | | 242L642 | 180 |
| 6402 | 3411 | STD | CM+1 | | 242L642 | 181 |
| 6403 | 1063 | SHN | -14 | | 242L642 | 182 |
| 6404 | 1014 | SHN | 14 | | 242L642 | 183 |
| 6405 | 3101 | ADD | T1 | | 242L642 | 184 |
| 6406 | 1006 | SHN | 6 | | 242L642 | 185 |
| 6407 | 3410 | STD | CM | | 242L642 | 186 |
| 6410 | 3056 | LDD | FL | SET FL | 242L642 | 187 |
| 6411 | 1006 | SHN | 6 | | 242L642 | 188 |
| 6412 | 3426 | STD | CN+1 | | 242L642 | 189 |
| 6413 | 1063 | SHN | -14 | | 242L642 | 190 |
| 6414 | 3425 | STD | CN | | 242L642 | 191 |
| 6415 | 3074 | LDD | CP | UPDATE EXCHANGE PACKAGE RA AND FL | 242L642 | 192 |
| 6416 | 1601 | ADN | 1 | | 242L642 | 193 |
| 6417 | 6210 | CWD | CM | | 242L642 | 194 |
| 6420 | 1601 | ADN | 1 | | 242L642 | 195 |
| 6421 | 6225 | CWD | CN | | 242L642 | 196 |
| | | | | | 242L642 | 197 |
| | | * | CLEAR NFL. | | 242L642 | 198 |
| | | | | | 242L642 | 199 |
| 6422 | 1405 | LDN | DNFL | SET NFL LENGTH FOR *CSTM* | 242L642 | 200 |
| 6423 | 1006 | SHN | 6 | | 242L642 | 201 |
| 6424 | 3412 | STD | CM+2 | | 242L642 | 202 |
| 6425 | 3071 | LDD | HN | SET RELATIVE CM ADDRESS FLAG | 242L642 | 203 |
| 6426 | 3411 | STD | CM+1 | | 242L642 | 204 |
| 6427 | 2077 7277 | LDC | -DNFL*100 | | 242L642 | 205 |
| 6431 | 3414 | STD | CM+4 | | 242L642 | 206 |
| 6432 | 1063 | SHN | -14 | | 242L642 | 207 |
| 6433 | 3413 | STD | CM+3 | | 242L642 | 208 |
| 6434 | 1431 | MONITOR | CSTM | CLEAR NFL | 242L642 | 209 |
| | | | | | 242L642 | 210 |
| | | * | INITIALIZE DAYFILE BUFFER CONTROL WORDS. | | 242L642 | 211 |
| | | | | | 242L642 | 212 |
| 6437 | 1466 | LDN | ZERL | | 242L642 | 213 |
| 6440 | 6010 | CRD | CM | | 242L642 | 214 |
| 6441 | 6025 | CRD | CN | | 242L642 | 215 |
| 6442 | 2000 0114 | LDC | JDBL | SET DAYFILE BUFFER LENGTH | 242L642 | 216 |
| 6444 | 3427 | STD | CN+2 | | 242L642 | 217 |
| 6445 | 1403 | LDN | 3 | INITIALIZE BUSY AND INTERLOCK FLAGS | 242L642 | 218 |
| 6446 | 3414 | STD | CM+4 | | 242L642 | 219 |
| 6447 | 3055 | NFA | DAPN+1 | | 242L642 | 220 |
| 6452 | 6225 | CWD | CN | | 242L642 | 221 |
| 6453 | 1601 | ADN | 1 | | 242L642 | 222 |
| 6454 | 6210 | CWD | CM | | 242L642 | 223 |
| 6455 | 0100 6321 | LJM | AFLX | RETURN | 242L642 | 224 |

| | | | | | | | | | |
|----|------|------|------|-----------------------------------|---------|---------|---|---------|-----|
| | ** | | | PJB - PRESET JOB. | | | 242L642 | 227 | |
| | * | | | | | | 242L642 | 228 | |
| | * | | | ENTRY (EF) = JOB ERROR FLAG. | | | 242L642 | 229 | |
| | * | | | (JO) = JOB EJT ORDINAL. | | | 242L642 | 230 | |
| | * | | | | | | 242L642 | 231 | |
| | * | | | EXIT CONTROL POINT AREA PRESET. | | | 242L642 | 232 | |
| | * | | | *SETMS IO* PERFORMED. | | | 271L750 | 51 | |
| | * | | | SYSTEM SECTOR READ INTO *BFMS*. | | | 271L750 | 52 | |
| | * | | | | | | 242L642 | 233 | |
| | * | | | ERROR TO *IJB6* TO TERMINATE JOB. | | | 271L750 | 53 | |
| | * | | | | | | 242L642 | 235 | |
| | * | | | CALLS AFL, CCP, MSR, PIR, RSS. | | | NS2748 | 12 | |
| | * | | | | | | 271L750 | 55 | |
| | * | | | MACROS MONITOR, NFA, SETMS, SFA. | | | 271L750 | 56 | |
| | | | | | | | 242L642 | 237 | |
| | | | | | | | 242L642 | 238 | |
| 14 | 6457 | 0100 | 6457 | PJB | SUBR | | ENTRY/EXIT | 242L642 | 239 |
| 15 | 6461 | 3045 | | | SFA | EJT,JO | CALCULATE EJT ENTRY ADDRESS | 242L642 | 240 |
| 16 | | | | | ADK | JSNE | | 242L642 | 241 |
| 17 | 6464 | 6032 | | | CRD | AB | | 242L642 | 242 |
| 18 | 6465 | 3036 | | | LDD | AB+4 | | 242L642 | 243 |
| 19 | 6466 | 1076 | | | SHN | -1 | | 242L642 | 244 |
| 20 | 6467 | 1277 | | | LPN | 77 | | 242L642 | 245 |
| 21 | 6470 | 1140 | | | LMN | PRJS+40 | | 242L642 | 246 |
| 22 | 6471 | 0405 | | | ZJN | PJB1 | IF PRE-INITIAL STATE AND JOB ADVANCE SET | 242L642 | 247 |
| 23 | 6472 | 1422 | | | MONITOR | HNGM | | 242L642 | 248 |
| 24 | 6475 | 0300 | | | UJN | * | HANG PP | 242L642 | 249 |
| 25 | | | | | | | | 242L642 | 250 |
| 26 | 6476 | 3420 | | PJB1 | STD | FS | CLEAR DIRECT CELLS | 242L642 | 251 |
| 27 | 6477 | 3465 | | | STD | RF | | 242L642 | 252 |
| 28 | 6500 | 3447 | | | STD | RO | | 242L642 | 253 |
| 29 | 6501 | 5400 | 1113 | | STM | SCAF | | 242L642 | 254 |
| 30 | 6503 | 5400 | 1112 | | STM | PRCF | CLEAR PROLOGUE/EPILOGUE FLAGS | 1AJ103 | 1 |
| 31 | 6505 | 3452 | | | STD | IR+2 | CONVERT CALL TO *CPUMTR* FORMAT | 242L642 | 255 |
| 32 | 6506 | 3454 | | | STD | IR+4 | | 242L642 | 256 |
| 33 | | | 0 | | ERRNZ | QOJT | CODE DEPENDS ON VALUE | 242L642 | 257 |
| 34 | | | 0 | | ERRNZ | TJJT | CODE DEPENDS ON VALUE | 242L642 | 258 |
| 35 | 6507 | 5400 | 1111 | | STM | JTFG | INITIALIZE JOB TERMINATION OPTION | 242L642 | 259 |
| 36 | 6511 | 5400 | 1110 | | STM | JTOP | INITIALIZE JOB TERMINATION OPTION | 242L642 | 260 |
| 37 | 6513 | 3075 | | | LDD | IA | REWRITE PP INPUT REGISTER | 242L642 | 261 |
| 38 | 6514 | 6250 | | | CWD | IR | | 242L642 | 262 |
| 39 | 6515 | 0200 | 6254 | | RJM | CCP | CLEAR CONTROL POINT AREA | 242L642 | 263 |
| 40 | | | | | | | | 242L642 | 264 |
| 41 | | | | * | | | IF IAF ACCESSIBLE, PRESET *COMPSRR*. | NS2748 | 13 |
| 42 | | | | | | | | NS2748 | 14 |
| 43 | 6517 | 5000 | 1114 | | LDM | TSAF | | NS2748 | 15 |
| 44 | 6521 | 0403 | | | ZJN | PJB1.1 | IF IAF NOT ACCESSIBLE | NS2748 | 16 |
| 45 | 6522 | 0200 | 6642 | | RJM | PIR | PRESET WITH IAF R-REGISTER | NS2748 | 17 |
| 46 | | | | | | | | NS2748 | 18 |
| 47 | | | | * | | | ADJUST RA AND FL (ACCOUNT FOR NFL) IN THE EXCHANGE PACKAGE | 242L642 | 265 |
| 48 | | | | * | | | AND WORD *FLSW* OF THE CONTROL POINT AREA. CLEAR NFL AND | 242L642 | 266 |
| 49 | | | | * | | | INITIALIZE DAYFILE BUFFER POINTER/STATUS WORDS OF NFL. | 242L642 | 267 |
| 50 | | | | | | | | 242L642 | 268 |
| 51 | 6524 | 0200 | 6322 | PJB1.1 | RJM | AFL | ADJUST RA/FL | NS2748 | 19 |
| 52 | | | | | | | | 242L642 | 270 |
| 53 | | | | * | | | PERFORM MINIMAL PRESET OF CONTROL POINT AREA IN CASE OF I/O | 242L642 | 271 |
| 54 | | | | * | | | ERROR ON SYSTEM SECTOR READ. | 242L642 | 272 |

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| | | | | | | | | |
|----|------|------|------|------|--|--|---------|-----|
| | 6526 | 3074 | | LDD | CP | | 242L642 | 273 |
| | 6527 | 1662 | | ADN | FPFW | | 242L642 | 274 |
| 1 | 6530 | 6370 | 2477 | CWM | IJBE,ON | | 242L642 | 276 |
| 2 | 6532 | 1604 | | ADN | PFCW-FPFW-1 | | 242L642 | 277 |
| 3 | 6533 | 6370 | 2504 | CWM | IJBF,ON | | 242L642 | 278 |
| 4 | 6535 | 1603 | | ADN | CSPW-PFCW-1 | | 242L642 | 279 |
| 5 | 6536 | 6370 | 2516 | CWM | IJBI,ON | | 242L642 | 280 |
| 6 | 6540 | 1624 | | ADN | CPLW-CSPW-1 | | 242L642 | 281 |
| 7 | 6541 | 6370 | 2523 | CWM | IJBJ,ON | | 242L642 | 282 |
| 8 | | | | | | | 242L642 | 283 |
| 9 | | | | * | SET DEFAULT SYSTEM CHARGE FOR *SYOT* JOB | | 242L642 | 284 |
| 10 | | | | | | | 242L642 | 285 |
| 11 | 6543 | 5000 | 1106 | LDM | JBOT | | 242L642 | 286 |
| 12 | | | | LMK | SYOT | | 242L642 | 287 |
| 13 | 6545 | 0506 | | NJN | PJB2 | IF NOT SYSTEM ORIGIN JOB | 242L642 | 288 |
| 14 | 6546 | 3055 | | NFA | CHGN | GET NFL ADDRESS | 242L642 | 289 |
| 15 | 6551 | 6370 | 2570 | CWM | IJBN,ON | | 242L642 | 290 |
| 16 | | | | | | | 271L750 | 57 |
| 17 | | | | * | READ THE INPUT FILE SYSTEM SECTOR. | | 271L750 | 58 |
| 18 | | | | | | | 271L750 | 59 |
| 19 | 6553 | 3045 | | PJB2 | SFA | EJT,JO | 271L750 | 60 |
| 20 | 6556 | 1601 | | ADK | SCHE | READ INPUT FILE POINTERS | 271L750 | 61 |
| 21 | 6557 | 6020 | | CRD | FS | | 271L750 | 62 |
| 22 | 6560 | 6005 | | CRD | T5 | | 271L750 | 63 |
| 23 | 6561 | 3005 | | LDD | T5 | SAVE EST ORDINAL FOR ERROR PROCESSING | 271L750 | 64 |
| 24 | 6562 | 5500 | 4563 | RAM | MSRD+3 | | 271L750 | 65 |
| 25 | 6564 | 3046 | | LDD | EF | CHECK FOR OVERRIDE | 271L750 | 66 |
| 26 | 6565 | 1146 | | LMN | ORET | | 271L750 | 67 |
| 27 | 6566 | 0505 | | NJN | PJB3 | IF NOT OPERATOR OVERRIDE | 271L750 | 68 |
| 28 | | | | | | | 271L750 | 69 |
| 29 | | | | * | SET *UCTM* JOB TERMINATION MODE TO FORCE THIS JOB TO | | 271L750 | 70 |
| 30 | | | | * | TERMINATE WITHOUT WAITING FOR INACCESSABLE MASS | | 271L750 | 71 |
| 31 | | | | * | STORAGE DEVICES. | | 271L750 | 72 |
| 32 | | | | | | | 271L750 | 73 |
| 33 | 6567 | 5600 | 2363 | AOM | IJBP | | 271L750 | 74 |
| 34 | 6571 | 0100 | 2360 | LJM | IJB6 | TERMINATE JOB | 271L750 | 75 |
| 35 | | | | | | | 271L750 | 76 |
| 36 | 6573 | 1400 | | PJB3 | SETMS | IO | 271L750 | 77 |
| 37 | 6576 | 5000 | 1105 | LDM | JBSC | CHECK JOB SERVICE CLASS | 271L750 | 78 |
| 38 | 6600 | 1123 | | LMN | DSSC | | 271L750 | 79 |
| 39 | 6601 | 0504 | | NJN | PJB4 | IF NOT DEADSTART SEQUENCING | 271L750 | 80 |
| 40 | 6602 | 1404 | | LDN | EPNS | | 271L750 | 81 |
| 41 | 6603 | 5500 | 0111 | RAM | CHRV | ALLOW ACCESS TO SUSPECT DEVICE | 271L750 | 82 |
| 42 | 6605 | 1400 | | PJB4 | LDN | 0 | 271L750 | 83 |
| 43 | 6606 | 3407 | | STD | T7 | | 271L750 | 84 |
| 44 | 6607 | 0200 | 6676 | RJM | RSS | READ SYSTEM SECTOR | 271L750 | 85 |
| 45 | 6611 | 0403 | | ZJN | PJB5 | IF NO I/O ERROR AND SYSTEM SECTOR IS VALID | 271L750 | 86 |
| 46 | 6612 | 0200 | 4460 | RJM | MSR | PROCESS INCORRECT SYSTEM SECTOR, NO RETURN | 271L750 | 87 |
| 47 | | | | * | LJM | IJB6 | 271L750 | 88 |
| 48 | | | | | | TERMINATE JOB | 271L750 | 89 |
| 49 | 6614 | 0100 | 6457 | PJB5 | LJM | PJBX | 271L750 | 90 |
| 50 | | | | | | RETURN | NS2748 | 20 |
| 51 | | | | PRR | HERE | LOCATE *PRR* CODE HERE | NS2748 | 21 |

* PRESET COMMON DECKS.

271L750 92
271L750 93
271L750 94
COMPRSS 1

6672

CTEXT COMPRSS - READ SYSTEM SECTOR.

* CHECK FOR OVERFLOW.

271L750 97
271L750 98
271L750 99
271L750 100
271L750 101
271L750 102
271L750 103

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ERRNG BFMS-* CODE OVERFLOWS INTO SYSTEM SECTOR BUFFER

OVERFLOW E1AJ,EPFW

205

ERRNG .2-.1+5-.3/500B*500B BYTES LEFT AFTER LAST SECTOR

OVERFLOW.1

321

ERRNG .3/500B*500B-*.1-5 BYTES LEFT IN LAST SECTOR

OVERFLOW.1

321

ERRNG .4/500B*500B-*.1-5 BYTES CAN BE ADDED TO OVERLAY

OVERFLOW.1

10

ERRNG .3/500B SECTORS NEEDED FOR OVERLAY

OVERFLOW.1

LIST *

OVERFLOW.1
OVERFLOW.1

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| QUAL | PEF | | 1AJ | 2591 |
|---------|---|---------------------------|---------|------|
| IDENT | 3AB,PEFX | PROCESS ERROR FLAG. | 1AJ | 2592 |
| COMMENT | 82/02/26. 95/06/23. | 1AJ - PROCESS ERROR FLAG. | 1AJ | 2593 |
| COMMENT | COPYRIGHT CONTROL DATA SYSTEMS INC. | 1992. | 281L803 | 3 |
| *** | 3AB - PROCESS ERROR FLAG. | | 1AJ | 2596 |
| * | | | 1AJ | 2597 |
| * | *3AB* PROCESSES ERROR AND REPRIEVE CONDITIONS AND PROLOGUE | | NS2323 | 68 |
| * | AND EPILOGUE TERMINATION. | | NS2323 | 69 |
| * | | | 1AJ | 2599 |
| * | IF THE ERROR CONDITION IS *SYET* (SYSTEM ERROR) THE | | 1AJ | 2600 |
| * | JOB IS UNCONDITIONALLY TERMINATED WITH THE DAYFILE MESSAGE | | 1AJ | 2601 |
| * | * SYSTEM ABORT.* | | 1AJ | 2602 |
| * | | | 1AJ | 2603 |
| * | IF THE ERROR CONDITION IS *OKET* (OPERATOR KILL) THE | | 1AJ | 2604 |
| * | JOB IS UNCONDITIONALLY TERMINATED WITH THE DAYFILE MESSAGE | | 1AJ | 2605 |
| * | * OPERATOR KILL.* | | 1AJ | 2606 |
| * | | | 241L630 | 45 |
| * | IF THE ERROR CONDITION IS *SWET* (SYSTEM SOFTWARE | | 241L630 | 46 |
| * | ERROR) THE JOB IS UNCONDITIONALLY TERMINATED WITH THE | | 241L630 | 47 |
| * | MESSAGE * SYSTEM ERROR.* | | 241L630 | 48 |
| * | | | 1AJ | 2607 |
| * | IF ERROR EXIT IS SELECTED, CONTROL IS RETURNED TO THE | | 1AJ | 2608 |
| * | PROGRAM AT THE ERROR EXIT ADDRESS PROVIDED THAT THE ERROR | | 1AJ | 2609 |
| * | EXIT ADDRESS IS WITHIN THE JOB-S FL. | | 1AJ | 2610 |
| * | | | 1AJ | 2611 |
| * | IF REPRIEVE IS SELECTED AND THE ERROR CONDITION | | 1AJ | 2612 |
| * | MATCHES THE REPRIEVE OPTIONS SELECTED, AND THE REPRIEVE | | 1AJ | 2613 |
| * | ADDRESS IS WITHIN THE JOB-S FL, CONTROL WILL BE RETURNED TO | | 1AJ | 2614 |
| * | THE PROGRAM AT THE REPRIEVE ADDRESS. | | 1AJ | 2615 |
| * | | | 1AJ | 2616 |
| * | IF NONE OF THE ABOVE IS TRUE AND THE ERROR CONDITION | | 1AJ | 2617 |
| * | IS *SPET* OR ABOVE, A DAYFILE MESSAGE IS ISSUED AND THE JOB | | 1AJ | 2618 |
| * | TERMINATED. | | 1AJ | 2619 |
| * | | | 1AJ | 2620 |
| * | FOR ON-LINE INTERACTIVE JOBS, THE FILE *OUTPUT* WILL NOT BE | | 1AJ | 2621 |
| * | FLUSHED (THIS FILE IS FLUSHED BY *1R0* AT ROLLOUT TIME IF THE | | 1AJ | 2622 |
| * | FILE IS ASSIGNED TO A TERMINAL). | | 1AJ | 2623 |
| * | | | 1AJ | 2624 |
| * | IF THE LIST OF FILES POINTER IS NOT SET, THE FILES NAMED IN | | 1AJ | 2625 |
| * | TABLE *TSFN* (TABLE OF SPECIAL FILE NAMES) WILL BE FLUSHED. | | 1AJ | 2626 |
| * | IF THE JOB IS NOT ON-LINE INTERACTIVE, THE FILE *OUTPUT* WILL | | 1AJ | 2627 |
| * | ALSO BE FLUSHED. IF THE LIST OF FILES POINTER IS SET. | | 1AJ | 2628 |
| * | THE TABLE OF FILE NAMES INDICATED WILL BE FLUSHED, EXCLUDING | | 1AJ | 2629 |
| * | *OUTPUT* FOR *TXOT* JOBS, IF THE FLUSH BIT (BIT 36, WORD 1 | | 1AJ | 2630 |
| * | OF THE FET) IS SET. IF A JOB IS NOT ON-LINE INTERACTIVE, THE | | 1AJ | 2631 |
| * | FILE *OUTPUT* WILL ALSO BE FLUSHED. | | 1AJ | 2632 |
| * | | | 1AJ | 2633 |
| * | WHEN THESE OPERATIONS ARE COMPLETE, THE COMMAND | | V23L617 | 109 |
| * | BUFFER IS SEARCHED FOR THE COMMAND *EXIT.*. IF | | V23L617 | 110 |
| * | THIS COMMAND IS FOUND, *3AB* RETURNS TO *1AJ* TO CONTINUE | | V23L617 | 111 |
| * | COMMAND PROCESSING. IF AN *EXIT.* IS NOT FOUND, | | V23L617 | 112 |
| * | RETURNS TO *1AJ* TO COMPLETE THE JOB PROCESSING. | | 1AJ | 2638 |

| Line | Message | Code | Page |
|------|---|---------|------|
| 1 | *** DAYFILE MESSAGES. | 1AJ | 2640 |
| 2 | * | 1AJ | 2641 |
| 3 | * * JOB HUNG IN AUTORECALL.* = SYSTEM DETECTED AN AUTORECALL | NS2112 | 1 |
| 4 | * CALL TO AN INCOMPLETE WORD AND THERE WAS NO ACTIVITY | NS2112 | 2 |
| 5 | * TO SET THE WORD COMPLETE. | NS2112 | 3 |
| 6 | * | NS2112 | 4 |
| 7 | * * USER BREAK TWO ENCOUNTERED.* = A USER BREAK TWO (TERMINAL | 1AJ | 2642 |
| 8 | * ABORT) HAS BEEN ENTERED FROM THE TERMINAL BY A | 1AJ | 2643 |
| 9 | * INTERACTIVE USER AND USER RECOVERY PROCESSING WAS NOT | V23L617 | 113 |
| 10 | * SELECTED BY THE USER PROGRAM (REPRIEVE/EREXIT/DISTC). | 1AJ | 2645 |
| 11 | * | 1AJ | 2646 |
| 12 | * * TIME LIMIT.* = THE MONITOR HAS DETECTED THAT THE TIME LIMIT | 1AJ | 2647 |
| 13 | * FOR THE JOB HAS EXPIRED. | 1AJ | 2648 |
| 14 | * | 1AJ | 2649 |
| 15 | * * PP CALL ERROR.* = THE MONITOR HAS DETECTED AN ERROR IN A | 1AJ | 2650 |
| 16 | * CPU REQUEST FOR PP ACTION. | 1AJ | 2651 |
| 17 | * | 1AJ | 2652 |
| 18 | * * MONITOR CALL ERROR.* = THE MONITOR HAS DETECTED AN ERROR | 1AJ | 2653 |
| 19 | * IN AN SYSTEM REQUEST. | V23L617 | 114 |
| 20 | * | 1AJ | 2655 |
| 21 | * * OPERATOR DROP.* = THE OPERATOR HAS DROPPED THE JOB. | 1AJ | 2656 |
| 22 | * | 1AJ | 2657 |
| 23 | * * PROGRAM STOP AT XXXXXX.* = THE MONITOR DETECTED A PROGRAM | 1AJ | 2658 |
| 24 | * STOP INSTRUCTION AT ADDRESS XXXXXX. | 1AJ | 2659 |
| 25 | * | 1AJ | 2660 |
| 26 | * * SUBSYSTEM ABORTED.* = SUBSYSTEM HAS ABORTED AND ALL USER | 1AJ | 2661 |
| 27 | * JOBS CONNECTED TO THIS SUBSYSTEM WILL HAVE THIS | 1AJ | 2662 |
| 28 | * MESSAGE SENT TO THE DAYFILE AND THE *SSET* ERROR FLAG | 1AJ | 2663 |
| 29 | * SET. | 1AJ | 2664 |
| 30 | * | 1AJ | 2665 |
| 31 | * * SCP INCORRECT TRANSFER ADDRESS.* = THE SCP *SSCR* (RA+51B) | V23L617 | 115 |
| 32 | * WORD CONTAINS INCORRECT PARAMETERS OR THE COMPLETION | V23L617 | 116 |
| 33 | * ADDRESS FOR AN *SF.REGR* OR *SF.SWPO* FUNCTION | 1AJ | 2668 |
| 34 | * IS NO LONGER WITHIN THE SCP FIELD LENGTH. | 1AJ | 2669 |
| 35 | * | 1AJ | 2670 |
| 36 | * * JOB STEP LIMIT.* = THE MONITOR HAS DETECTED THAT THE | 1AJ | 2671 |
| 37 | * SRU LIMIT FOR THE JOB STEP HAS EXPIRED. | 1AJ | 2672 |
| 38 | * | 1AJ | 2673 |
| 39 | * * ACCOUNT BLOCK LIMIT.* = THE MONITOR HAS DETECTED THAT | 1AJ | 2674 |
| 40 | * THE SRU LIMIT FOR THE ACCOUNT BLOCK HAS EXPIRED. | 1AJ | 2675 |
| 41 | * | 1AJ | 2676 |
| 42 | * * INITIAL COMMAND LIMIT.* = NUMBER OF COMMANDS | NS2388 | 1 |
| 43 | * EXCEEDED THE LIMIT FOR WHICH THE USER WAS VALIDATED. | NS2388 | 2 |
| 44 | * *DFIN* MORE COMMANDS ARE THEN ALLOWED FOR ERROR | NS2388 | 3 |
| 45 | * PROCESSING. | NS2388 | 4 |
| 46 | * | NS2388 | 5 |
| 47 | * * COMMAND LIMIT.* = NUMBER OF COMMANDS | NS2388 | 6 |
| 48 | * EXCEEDED LIMIT FOR WHICH THE USER WAS VALIDATED AND | NS2388 | 7 |
| 49 | * *DFIN* COMMANDS ALLOWED FOR ERROR PROCESSING ARE ALSO | NS2388 | 8 |
| 50 | * EXCEEDED. THE JOB IS TERMINATED. | NS2388 | 9 |
| 51 | * | NS2388 | 10 |
| 52 | * * INITIAL MESSAGE LIMIT.* = THE MONITOR HAS DETECTED THAT | 1AJ | 2677 |
| 53 | * THE MESSAGE LIMIT FOR THE JOB HAS EXPIRED. THE LIMIT | 1AJ | 2678 |
| 54 | * IS RESET TO *DMLI* SO AS TO COMPLETE JOB PROCESSING. | 1AJ | 2679 |
| 55 | * | 1AJ | 2680 |
| 56 | * * MESSAGE LIMIT.* = THE MONITOR HAS DETECTED THAT THE | 1AJ | 2681 |
| 57 | * (FINAL) MESSAGE LIMIT FOR THE JOB HAS EXPIRED. | 1AJ | 2682 |

| | | | |
|---|--|---------|------|
| * | THE JOB IS UNCONDITIONALLY TERMINATED. | 1AJ | 2683 |
| * | | 1AJ | 2684 |
| * | * LOCAL FILE LIMIT.* = JOB IS NOT ALLOWED TO CREATE | 1AJ | 2685 |
| * | ANOTHER LOCAL FILE, SINCE THE MAXIMUM NUMBER | 1AJ | 2686 |
| * | OF LOCAL FILES (*MXLF*) ARE ALREADY PRESENT. | 1AJ | 2687 |
| * | | 1AJ | 2688 |
| * | * LIST OF FILES LENGTH TOO LONG OR ZERO.* = LIST OF FILES | 1AJ | 2689 |
| * | LENGTH EXCEEDED 4096 OR LIST OF FILES STARTED OR | 1AJ | 2690 |
| * | EXTENDED BEYOND THE JOB FIELD LENGTH OR THE LIST OF | 1AJ | 2691 |
| * | FILES LENGTH WAS EQUAL TO ZERO. | 1AJ | 2692 |
| * | | 1AJ | 2693 |
| * | * INCORRECT ERROR EXIT ADDRESS.* = ERROR EXIT ADDRESS | V23L617 | 117 |
| * | OUTSIDE FL OR OTHERWISE INCORRECT. | V23L617 | 118 |
| * | | 1AJ | 2696 |
| * | * JOB RERUN.* = THE JOB WAS RERUN BY THE OPERATOR. | 1AJ46 | 1 |
| * | | 1AJ46 | 2 |
| * | * RECOVERY RERUN.* = JOB WAS RERUN DUE TO A SYSTEM RECOVERY. | 1AJ46 | 3 |
| * | | 1AJ46 | 4 |
| * | * SPECIAL REQUEST PROCESSING ERROR.* = ERROR IN *SPCW* | 1AJ | 2697 |
| * | CALL WORD. | 1AJ | 2698 |
| * | | 1AJ | 2699 |
| * | * SECURE MEMORY, DUMP DISABLED.* = ATTEMPT TO DUMP | 1AJ | 2700 |
| * | SECURE MEMORY. | 1AJ | 2701 |
| * | | 1AJ | 2702 |
| * | * REPRIEVE BLOCK ERROR.* = THE REPRIEVE BLOCK CONTAINS A | 1AJ | 2703 |
| * | BAD PARAMETER OR IS NOT WITHIN THE JOB FIELD LENGTH. | 1AJ | 2704 |
| * | | 1AJ | 2705 |
| * | * REPRIEVE CHECKSUM BAD.* = THE COMPUTED CHECKSUM DOES NOT | 1AJ | 2706 |
| * | MATCH THE CHECKSUM IN THE REPRIEVE BLOCK. | 1AJ | 2707 |
| * | | 1AJ | 2708 |
| * | * JOB REPRIEVED.* = JOB REPRIEVED SUCCESSFULLY. | 1AJ | 2709 |
| * | | 1AJ | 2710 |
| * | * JOB IN NO RERUN STATE ON RECOVERY.* = JOB RECOVERED | 1AJ | 2711 |
| * | DURING DEADSTART IS ABORTED BECAUSE IT WAS IN | 1AJ | 2712 |
| * | NO RERUN MODE. | 1AJ | 2713 |
| * | | NS2105 | 1 |
| * | * PARITY ERROR, JOB HUNG.* = THE CONTROL POINT IS HUNG | NS2105 | 2 |
| * | IN JOB ADVANCE TO FREEZE THE AFFECTED MEMORY. | NS2105 | 3 |
| * | | 242L642 | 297 |
| * | * JOB STEP ABORT.* = JOB STEP WAS ABORTED DUE TO A CONDITION | 242L642 | 298 |
| * | BEYOND THE JOB-S CONTROL SUCH AS A MASS STORAGE ERROR | 242L642 | 299 |
| * | ON THE ROLLOUT FILE. | 242L642 | 300 |
| * | | 1AJ | 2714 |
| * | | 1AJ | 2715 |
| * | FOR CPU ERROR EXITS THE FOLLOWING MESSAGES ARE ISSUED. | 1AJ | 2716 |
| * | | 1AJ | 2717 |
| * | * CPU ERROR EXIT AT YYYYYY.* MONITOR HAS DETECTED A | 1AJ | 2718 |
| * | CPU ERROR EXIT AT ADDRESS YYYYYY DUE TO ONE OR MORE | 1AJ | 2719 |
| * | OF THE FOLLOWING CONDITIONS, WHICH ARE ALSO ISSUED | 1AJ | 2720 |
| * | TO THE DAYFILE. | 1AJ | 2721 |
| * | | 1AJ | 2722 |
| * | | 1AJ | 2723 |
| * | * ARITHMETIC UNDERFLOW.* | 1AJ | 2724 |
| * | | 1AJ | 2725 |
| * | * ARITHMETIC OVERFLOW.* | 1AJ | 2726 |
| * | | 1AJ | 2727 |
| * | * ARITHMETIC INDEFINITE.* | 1AJ | 2728 |

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|----|------|----|----|-----|-----------|-------------------------|---------|------|----|
| 1 | * | | | | | | 1AJ | 2729 | 1 |
| 2 | * | | | | | | 1AJ | 2730 | 2 |
| 3 | * | | | | | | 1AJ | 2731 | 3 |
| 4 | * | | | | | | 1AJ | 2732 | 4 |
| 5 | * | | | | | | 1AJ | 2733 | 5 |
| 6 | * | | | | | | 1AJ | 2734 | 6 |
| 7 | * | | | | | | 1AJ | 2735 | 7 |
| 8 | * | | | | | | 1AJ | 2736 | 8 |
| 9 | * | | | | | | 1AJ | 2737 | 9 |
| 10 | * | | | | | | V23L617 | 119 | 10 |
| 11 | * | | | | | | 1AJ | 2739 | 11 |
| 12 | * | | | | | | 1AJ | 2740 | 12 |
| 13 | * | | | | | | 1AJ | 2741 | 13 |
| 14 | * | | | | | | V23L617 | 120 | 14 |
| 15 | * | | | | | | 1AJ | 2743 | 15 |
| 16 | * | | | | | | 1AJ | 2744 | 16 |
| 17 | * | | | | | | 1AJ | 2745 | 17 |
| 18 | * | | | | | | V23L617 | 121 | 18 |
| 19 | * | | | | | | 1AJ | 2747 | 19 |
| 20 | * | | | | | | V23L617 | 122 | 20 |
| 21 | * | | | | | | 1AJ | 2749 | 21 |
| 22 | * | | | | | | 1AJ | 2750 | 22 |
| 23 | * | | | | | | 1AJ | 2751 | 23 |
| 24 | * | | | | | | V23L617 | 123 | 24 |
| 25 | * | | | | | | NS21000 | 97 | 25 |
| 26 | * | | | | | | NS21000 | 98 | 26 |
| 27 | * | | | | | | NS21000 | 99 | 27 |
| 28 | * | | | | | | V23L617 | 124 | 28 |
| 29 | | | | | | | | | 29 |
| 30 | *** | | | | | | NS2236 | 2 | 30 |
| 31 | * | | | | | | NS2236 | 3 | 31 |
| 32 | * | | | | | | NS2236 | 4 | 32 |
| 33 | * | | | | | | NS2236 | 5 | 33 |
| 34 | * | | | | | | NS2236 | 6 | 34 |
| 35 | * | | | | | | NS2236 | 7 | 35 |
| 36 | | | | | | | | | 36 |
| 37 | | | | | | | | | 37 |
| 38 | | | | | | | | | 38 |
| 39 | | | | | | | | | 39 |
| 40 | **** | | | | | | 1AJ | 2754 | 40 |
| 41 | | | | | | | 1AJ | 2755 | 41 |
| 42 | | | | | | | 1AJ | 2756 | 42 |
| 43 | | 32 | NL | EQU | AB | NEGATIVE FL ASSIGNED | 1AJ83 | 1 | 43 |
| 44 | | 40 | FN | EQU | SP - SP+4 | FILE NAME (5 LOCATIONS) | 1AJ83 | 2 | 44 |
| 45 | | | | | | | 1AJ | 2762 | 45 |
| 46 | **** | | | | | | 1AJ | 2763 | 46 |
| 47 | | | | | | | | | 47 |
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| | ** | | | | PEF - MAIN ROUTINE. | | 1AJ | 2766 |
| | * | | | | | | NS2009 | 18 |
| | * | | | | EXIT (A) .NE. 0 IF SCP CONNECTIONS TO BE PROCESSED. | | NS2009 | 19 |
| 1 | | | | | | | 1AJ | 2767 |
| 2 | | | | | | | 1AJ | 2768 |
| 3 | | 2300 | | | ORG E1AJ | | 1AJ | 2769 |
| 4 | | 2300 | 0100 2300 | | PEF SUBR ENTRY/EXIT | | 1AJ | 2770 |
| 5 | | 2302 | 0200 6054 | | RJM PRS PRESET PROGRAM | | 1AJ | 2771 |
| 6 | | 2304 | 0424 | | ZJN PEF2.1 IF RECOVERY NOT POSSIBLE | | NS2009 | 20 |
| 7 | | 2305 | 0726 | | MJN PEF2.2 IF IDLE OF SPECIAL SUBSYSTEM | | NS2009 | 21 |
| 8 | | | | | | | 1AJ | 2773 |
| 9 | | | | * | PROCESS EXTENDED REPRIEVE. | | 1AJ | 2774 |
| 10 | | | | | | | 1AJ | 2775 |
| 11 | | 2306 | 3060 | | LDD CW CHECK IF EXTENDED REPRIEVE ACTIVE | | 1AJ | 2776 |
| 12 | | 2307 | 1007 | | SHN 21-12 | | 1AJ | 2777 |
| 13 | | 2310 | 0605 | | PJN PEF1 IF NOT ACTIVE | | 1AJ | 2778 |
| 14 | | 2311 | 0200 3530 | | RJM CEI CHECK ERROR INTERRUPT | | 1AJ | 2779 |
| 15 | | 2313 | 0100 2355 | | LJM PEF3 ABORT IF JOB NOT RESTARTED | | V23L617 | 125 |
| 16 | | | | | | | 1AJ | 2781 |
| 17 | | | | * | PROCESS REPRIEVE/EREXIT. | | 1AJ | 2782 |
| 18 | | | | | | | 1AJ | 2783 |
| 19 | | 2315 | 3065 | | PEF1 LDD RF CHECK REPRIEVE OPTION STATUS | | 1AJ | 2784 |
| 20 | | 2316 | 0402 | | ZJN PEF2 IF NO REPRIEVE OPTIONS SET | | 1AJ | 2785 |
| 21 | | 2317 | 1422 | | LDN 22 SET REPRIEVE BLOCK LENGTH | | 1AJ | 2786 |
| 22 | | 2320 | 3401 | | PEF2 STD T1 | | 1AJ | 2787 |
| 23 | | 2321 | 3146 | | ADD EF | | NS2323 | 70 |
| 24 | | 2322 | 0503 | | ZJP PEF6 IF NO ERROR FLAG OR REPRIEVE OPTIONS | | NS2323 | 71 |
| 25 | | 2325 | 3046 | | LDD EF CHECK ERROR FLAG | | 1AJ | 2788 |
| 26 | | 2326 | 1135 | | LMN OKET | | 1AJ | 2789 |
| 27 | | 2327 | 0506 | | NJN PEF2.3 IF NOT OPERATOR KILL | | NS2009 | 22 |
| 28 | | 2330 | 5000 1113 | | PEF2.1 LDM SCAF | | NS2009 | 23 |
| 29 | | 2332 | 0545 | | NJN PEFX IF SCP CONNECTIONS TO PROCESS | | NS2009 | 24 |
| 30 | | 2333 | 0100 2376 | | PEF2.2 LJM PEF5 COMPLETE ERROR PROCESSING | | NS2009 | 25 |
| 31 | | | | | | | NS2009 | 26 |
| 32 | | 2335 | 3063 | | PEF2.3 LDD CW+3 CHECK ERROR RETURN ADDRESS | | NS2009 | 27 |
| 33 | | 2336 | 1277 | | LPN 77 | | 1AJ | 2792 |
| 34 | | 2337 | 3164 | | ADD CW+4 | | NS2323 | 72 |
| 35 | | 2340 | 0415 | | ZJN PEF3 IF NO ERROR RETURN ADDRESS | | 1AJ | 2796 |
| 36 | | 2341 | 3001 | | LDD T1 SAVE (T1) | | V23L617 | 126 |
| 37 | | 2342 | 5400 2351 | | STM PEFA | | V23L617 | 127 |
| 38 | | 2344 | 2036 0116 | | EXECUTE 3AN | | V23L617 | 128 |
| 39 | | 2350 | 2000 2350 | | LDC * | | V23L617 | 129 |
| 40 | | | | | | | V23L617 | 130 |
| 41 | | 2352 | 3401 | | STD T1 | | V23L617 | 131 |
| 42 | | 2353 | 0200 6101 | | RJM /CER/CER CHECK ERROR RETURN | | V23L617 | 136 |
| 43 | | | | | | | 1AJ | 2798 |
| 44 | | | | * | PROCESS LIST-OF FILES. | | 1AJ | 2799 |
| 45 | | | | | | | 1AJ | 2800 |
| 46 | | 2355 | 5000 1113 | | PEF3 LDM SCAF | | NS2009 | 28 |
| 47 | | 2357 | 0550 | | NJN PEF2.1 IF SCP CONNECTIONS TO PROCESS | | NS2009 | 29 |
| 48 | | 2360 | 3046 | | LDD EF CHECK ERROR FLAG | | NS2009 | 30 |
| 49 | | 2361 | 1726 | | SBK SPET | | 1AJ | 2802 |
| 50 | | 2362 | 0614 | | PJN PEF5 IF *SPET* OR GREATER | | 1AJ | 2803 |
| 51 | | 2363 | 1625 | | ADK SPET-TIET | | 1AJ | 2804 |
| 52 | | 2364 | 0412 | | ZJN PEF5 IF *USER BREAK ONE* | | 1AJ | 2805 |
| 53 | | 2365 | 1701 | | SBK TAET-TIET | | 1AJ | 2806 |
| 54 | | 2366 | 0410 | | ZJN PEF5 IF *USER BREAK TWO* | | 1AJ | 2807 |

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| 2367 | 3056 | | LDD | FL | CHECK FIELD LENGTH | 1AJ | 2808 |
| 2370 | 0406 | | ZJN | PEF5 | IF NO FIELD LENGTH ASSIGNED | 1AJ | 2809 |
| 2371 | 0200 2666 | | RJM | PLF | PROCESS LIST OF FILES | 1AJ | 2817 |
| 2373 | 0403 | | ZJN | PEF5 | IF LIST OF FILES DEFINED | 272L774 | 3 |
| 2374 | 0200 2443 | | RJM | CMF | COMPLETE JOB FILES | 272L774 | 4 |
| | | | | | | 1AJ | 2821 |
| | | | * | | COMPLETE ERROR PROCESSING. | 1AJ | 2822 |
| | | | | | | 1AJ | 2823 |
| 2376 | 0200 3045 | PEF5 | RJM | EBC | PROCESS ERROR FLAG | 1AJ | 2824 |
| 2400 | 5000 1112 | PEF6 | LDM | PRCF | | NS2323 | 73 |
| 2402 | 0403 | | ZJN | PEF7 | IF NOT PROLOGUE OR EPILOGUE TERMINATION | NS2323 | 74 |
| 2403 | 0200 3010 | | RJM | PPT | PROCESS PROLOGUE/EPILOGUE TERMINATION | NS2323 | 75 |
| 2405 | 1400 | PEF7 | LDN | 0 | INDICATE ERROR PROCESSING COMPLETE | NS2323 | 76 |
| 2406 | 0100 2300 | | LJM | PEFX | RETURN | NS2009 | 32 |

** PEF - GLOBAL DATA STORAGE.

| | | | | | | | |
|------|------|------|-----|---|-----------------------------|-------|------|
| | | | | | | 1AJ | 2835 |
| | | | | | | 1AJ | 2836 |
| | | | | | | 1AJ | 2837 |
| 2410 | 0000 | CPXS | CON | 0 | CONTROL POINT EXIT STATUS | 1AJ | 2838 |
| 2411 | 0000 | PERS | CON | 0 | HARWARE PARITY ERROR STATUS | 1AJ91 | 1 |

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| | ** | | | CJS - CHECK JOB STATUS. | | | 1AJ | 2841 |
| | * | | | | | | 1AJ | 2842 |
| | * | | | ENTRY (RF) = REPRIEVE OPTIONS. | | | 1AJ | 2843 |
| 1 | * | | | | | | 1AJ | 2844 |
| 2 | * | | | EXIT (A) = 0, JOB STEP COMPLETE. | | | 1AJ | 2845 |
| 3 | * | | | | | | 1AJ | 2846 |
| 4 | * | | | USES CM - CM+4. | | | 1AJ | 2847 |
| 5 | | | | | | | 1AJ | 2848 |
| 6 | | | | | | | 1AJ | 2849 |
| 7 | | 2412 | 0100 2412 | CJS | SUBR | ENTRY/EXIT | 1AJ | 2850 |
| 8 | | 2414 | 3056 | | LDD FL | | 1AJ | 2851 |
| 9 | | 2415 | 0474 | | ZJN CJSX | IF NO FL, JOB STEP IS COMPLETE | 1AJ | 2852 |
| 10 | | 2416 | 3065 | | LDD RF | | 1AJ | 2853 |
| 11 | | 2417 | 2200 0100 | | LPC 100 | | 1AJ | 2854 |
| 12 | | 2421 | 0570 | | NJN CJSX | IF REPRIEVE ON NORMAL JOB TERMINATION | 1AJ | 2855 |
| 13 | | 2422 | 3055 | | LDD RA | CHECK FOR *END* | 1AJ | 2856 |
| 14 | | 2423 | 1006 | | SHN 6 | | 1AJ | 2857 |
| 15 | | 2424 | 1601 | | ADN 1 | | 1AJ | 2858 |
| 16 | | 2425 | 6010 | | CRD CM | | 1AJ | 2859 |
| 17 | | 2426 | 3011 | | LDD CM+1 | | 1AJ | 2860 |
| 18 | | 2427 | 1377 | | SCN 77 | | 1AJ | 2861 |
| 19 | | 2430 | 1006 | | SHN 6 | | 1AJ | 2862 |
| 20 | | 2431 | 3310 | | LMD CM | | 1AJ | 2863 |
| 21 | | 2432 | 2304 0516 | | LMC 3RDEN | | 1AJ | 2864 |
| 22 | | 2434 | 0355 | | UJN CJSX | EXIT | 1AJ | 2865 |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | ** | | | CMF - COMPLETE SPECIAL FILES. | | | 1AJ | 2867 |
| 28 | * | | | | | | 1AJ | 2868 |
| 29 | * | | | ENTRY (T1) = POINTER TO LAST FILE PROCESSED | | | 1AJ | 2869 |
| 30 | * | | | (RELATIVE TO RA). | | | 1AJ | 2870 |
| 31 | * | | | | | | 1AJ | 2871 |
| 32 | * | | | EXIT TO *CC02* IF *CIO* IN PROGRESS. | | | 1AJ | 2872 |
| 33 | * | | | | | | 1AJ | 2873 |
| 34 | * | | | USES T0, T1, T2, CM - CM+4, CN - CN+4, FS - FS+4. | | | 1AJ | 2874 |
| 35 | * | | | | | | 1AJ | 2875 |
| 36 | * | | | CALLS CC0, CFP, CFS. | | | 1AJ | 2876 |
| 37 | | | | | | | 1AJ | 2877 |
| 38 | | | | | | | 1AJ | 2878 |
| 39 | | 2435 | 5000 4545 | CMF8 | LDM CCOA | | 1AJ | 2879 |
| 40 | | 2437 | 0403 | | ZJN CMFX | IF NO *CIO* CALLS IN PROGRESS | 1AJ | 2880 |
| 41 | | 2440 | 0100 4530 | | LJM CC02 | RESET ERROR FLAG AND DROP PP | 1AJ | 2881 |
| 42 | | | | | | | 1AJ | 2882 |
| 43 | | 2442 | 0100 2442 | CMF | SUBR | ENTRY/EXIT | 1AJ | 2883 |
| 44 | | 2444 | 3001 | | LDD T1 | | 1AJ | 2884 |
| 45 | | 2445 | 0503 | | NJN CMF1 | IF NOT INITIAL CALL | 1AJ | 2885 |
| 46 | | 2446 | 1401 | | LDN 1 | SET SEARCH ADDRESS | 1AJ | 2886 |
| 47 | | 2447 | 3401 | | STD T1 | | 1AJ | 2887 |
| 48 | | 2450 | 3601 | CMF1 | AOD T1 | ADVANCE FILE POINTER ADDRESS | 1AJ | 2888 |
| 49 | | 2451 | 1164 | | LMN PGNR | LIMIT OF SPECIAL FILES | 1AJ | 2889 |
| 50 | | 2452 | 0462 | | ZJN CMF8 | IF END OF POINTERS | 1AJ | 2890 |
| 51 | | 2453 | 3400 | | STD T0 | | 1AJ | 2891 |
| 52 | | 2454 | 3055 | | LDD RA | READ FILE POINTER | 1AJ | 2892 |
| 53 | | 2455 | 1006 | | SHN 6 | | 1AJ | 2893 |
| 54 | | 2456 | 3101 | | ADD T1 | | 1AJ | 2894 |
| 55 | | | | | | | | |
| 56 | | | | | | | | |
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| 2457 | 6010 | | CRD | CM | | 1AJ | 2895 | |
| 2460 | 3010 | | LDD | CM | | 1AJ | 2896 | |
| 2461 | 0453 | | ZJN | CMF8 | IF END OF ENTRIES | 1AJ | 2897 | |
| 2462 | 3013 | | LDD | CM+3 | CHECK ADDRESS | 1AJ | 2898 | |
| 2463 | 1277 | | LPN | 77 | | 1AJ | 2899 | |
| 2464 | 1014 | | SHN | 14 | | 1AJ | 2900 | |
| 2465 | 3314 | | LMD | CM+4 | | 1AJ | 2901 | |
| 2466 | 0461 | | ZJN | CMF1 | IF NO FET SPECIFIED | 1AJ | 2902 | |
| 2467 | 1777 | | SBN | 77 | | 1AJ | 2903 | |
| 2470 | 0757 | | MJN | CMF1 | IF OUT OF RANGE | 1AJ | 2904 | |
| 2471 | 2100 | 0104 | ADC | 5+77 | | 1AJ | 2905 | |
| 2473 | 1071 | | SHN | -6 | | 1AJ | 2906 | |
| 2474 | 3256 | | SBD | FL | | 1AJ | 2907 | |
| 2475 | 0652 | | PJN | CMF1 | IF \ FL-5 | 1AJ | 2908 | |
| 2476 | 3013 | | LDA | CM+3,M | | 1AJ | 2909 | |
| 2504 | 6025 | | CRD | CN | | 1AJ | 2910 | |
| 2505 | 1601 | | ADN | 1 | READ POSSIBLE FET ADDRESS | 1AJ | 2911 | |
| 2506 | 6020 | | CRD | FS | | 1AJ | 2912 | |
| 2507 | 3030 | | LDD | CN+3 | CHECK FOR FIT | 1AJ | 2913 | |
| 2510 | 1277 | | LPN | 77 | | 1AJ | 2914 | |
| 2511 | 3131 | | ADD | CN+4 | | 1AJ | 2915 | |
| 2512 | 0506 | | NJN | CMF2 | IF NOT FIT | 1AJ | 2916 | |
| 2513 | 3400 | | STD | T0 | | 1AJ | 2917 | |
| 2514 | 3023 | | LDD | FS+3 | MOVE FET ADDRESS | 1AJ | 2918 | |
| 2515 | 3413 | | STD | CM+3 | | 1AJ | 2919 | |
| 2516 | 3024 | | LDD | FS+4 | | 1AJ | 2920 | |
| 2517 | 3414 | | STD | CM+4 | | 1AJ | 2921 | |
| 2520 | 0200 | 4550 | RJM | CFP | CHECK FET PARAMETERS | 1AJ | 2922 | |
| 2522 | 0510 | | NJN | CMF4 | IF FET ERRORS | 1AJ | 2923 | |
| 2523 | 0200 | 4700 | RJM | CFS | CHECK FET STATUS | 1AJ | 2924 | |
| 2525 | 0715 | | MJN | CMF5 | IF FLUSH STATUS, *OUTPUT* AND NOT *TXOT* | 1AJ | 2925 | |
| 2526 | 0417 | | ZJN | CMF6 | IF FILE TO BE FLUSHED | 1AJ | 2926 | |
| 2527 | 0503 | | NJN | CMF4 | IF NO FLUSH STATUS | 1AJ | 2927 | |
| 2530 | 0100 | 2450 | LJM | CMF1 | CHECK NEXT FILE | 1AJ | 2928 | |
| | | | | | | 1AJ | 2929 | |
| 2532 | 3000 | | CMF4 | LDD | T0 | 1AJ | 2930 | |
| 2533 | 0574 | | NJN | CMF3 | IF NOT POSSIBLE FIT | 1AJ | 2931 | |
| 2534 | 3055 | | LDD | RA | READ UP FET | 1AJ | 2932 | |
| 2535 | 1006 | | SHN | 6 | | 1AJ | 2933 | |
| 2536 | 3101 | | ADD | T1 | | 1AJ | 2934 | |
| 2537 | 6010 | | CRD | CM | | 1AJ | 2935 | |
| 2540 | 3400 | | STD | T0 | RESET FIT INDICATOR | 1AJ | 2936 | |
| 2541 | 0356 | | UJN | CMF2 | CHECK FET PARAMETERS | 1AJ | 2937 | |
| | | | | | | 1AJ | 2938 | |
| 2542 | 0200 | 4437 | CMF5 | RJM | CC0 | CALL *CIO* TO DUMP BUFFER | 1AJ | 2939 |
| 2544 | 0363 | | UJN | CMF3 | LOOP FOR NEXT FILE | 1AJ | 2940 | |
| | | | | | | 1AJ | 2941 | |
| 2545 | 2000 | 2570 | CMF6 | LDC | TSFN-4 | SET SPECIAL FILE NAME TABLE | 1AJ | 2942 |
| 2547 | 3402 | | STD | T2 | | 1AJ | 2943 | |
| 2550 | 1404 | | CMF7 | LDN | 4 | ADVANCE TABLE | 1AJ | 2944 |
| 2551 | 3502 | | RAD | T2 | | 1AJ | 2945 | |
| 2552 | 4002 | | LDI | T2 | | 1AJ | 2946 | |
| 2553 | 0456 | | ZJN | CMF4 | IF END OF TABLE | 1AJ | 2947 | |
| 2554 | 3325 | | LMD | CN | COMPARE NAMES | 1AJ | 2948 | |
| 2555 | 0572 | | NJN | CMF7 | IF NO MATCH | 1AJ | 2949 | |
| 2556 | 5002 | 0001 | LDM | 1,T2 | | 1AJ | 2950 | |
| 2560 | 3326 | | LMD | CN+1 | | 1AJ | 2951 | |

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|---------------------------------------|-----------|------|------|-------------|------------------------|------------------------------|---------|------|
| 2561 | 0566 | | NJN | CMF7 | IF NO MATCH | 1AJ | 2952 | |
| 2562 | 5002 0002 | | LDM | 2,T2 | | 1AJ | 2953 | |
| 2564 | 3327 | | LMD | CN+2 | | 1AJ | 2954 | |
| 2565 | 0562 | | NJN | CMF7 | IF NO MATCH | 1AJ | 2955 | |
| 2566 | 5002 0003 | | LDM | 3,T2 | | 1AJ | 2956 | |
| 2570 | 3330 | | LMD | CN+3 | | 1AJ | 2957 | |
| 2571 | 1377 | | SCN | 77 | | 1AJ | 2958 | |
| 2572 | 0555 | | NJN | CMF7 | IF NO MATCH | 1AJ | 2959 | |
| 2573 | 0346 | | UJN | CMF5 | CALL *CIO* TO DUMP FET | 1AJ | 2960 | |
| | | | | | | | | |
| ** TSN - TABLE OF SPECIAL FILE NAMES. | | | | | | | 1AJ | 2962 |
| | | | | | | | 1AJ | 2963 |
| | | | | | | | 1AJ | 2964 |
| 2574 | | TSFN | BSS | 0 | | 1AJ | 2965 | |
| 2574 | 2025 | | VFD | 48/0LPUNCH | | 1AJ | 2966 | |
| 2575 | 1603 | | | | | | | |
| 2576 | 1000 | | | | | | | |
| 2577 | 0000 | | | | | | | |
| 2600 | 2025 | | VFD | 48/0LPUNCHB | | 1AJ | 2967 | |
| 2601 | 1603 | | | | | | | |
| 2602 | 1002 | | | | | | | |
| 2603 | 0000 | | | | | | | |
| 2604 | 2043 | | VFD | 48/0LP8 | | 1AJ | 2968 | |
| 2605 | 0000 | | | | | | | |
| 2606 | 0000 | | | | | | | |
| 2607 | 0000 | | | | | | | |
| 2610 | 0000 | | CON | 0 | TERMINATE TABLE | 1AJ | 2969 | |
| | | | | | | | | |
| ** CSF - CHECK SCR FOR FATAL ERROR. | | | | | | | 1AJ | 2971 |
| * | | | | | | | 1AJ | 2972 |
| * EXIT (A) = 0 IF NOT FATAL ERROR. | | | | | | | 1AJ | 2973 |
| * | | | | | | | 1AJ | 2974 |
| * USES CM - CM+4. | | | | | | | 1AJ | 2975 |
| | | | | | | | 1AJ | 2976 |
| | | | | | | | 1AJ | 2977 |
| 2611 | 1400 | | CSF2 | LDN | 0 | SET NO FATAL ERROR PRESENT | 1AJ | 2978 |
| | | | | | | | 1AJ | 2979 |
| 2612 | 0100 2612 | | CSF | SUBR | | ENTRY/EXIT | 1AJ | 2980 |
| 2614 | 3046 | | LDD | EF | | CHECK FOR PEET ERROR | 1AJ | 2981 |
| 2615 | 1144 | | LMN | PEET | | | 1AJ | 2982 |
| 2616 | 0572 | | NJN | CSF2 | | IF NO POSSIBLE FATAL ERROR | 1AJ | 2983 |
| 2617 | 2000 0113 | | LDK | MABL | | CHECK MAINFRAME TYPE | NS21000 | 101 |
| 2621 | 6010 | | CRD | CM | | | 1AJ | 2985 |
| 2622 | 3011 | | LDD | CM+1 | | | NS21000 | 102 |
| 2623 | 1071 | | SHN | -6 | | | NS21000 | 103 |
| 2624 | 1241 | | LPN | 41 | | | NS21000 | 104 |
| 2625 | 1101 | | LMN | 1 | | | NS21000 | 105 |
| 2626 | 0417 | | ZJN | CSF1 | | IF CYBER 170-815/825/835/855 | NS21000 | 106 |
| 2627 | 1201 | | LPN | 1 | | | NS21000 | 107 |
| 2630 | 0461 | | ZJN | CSFX | | IF NOT 170 | 1AJ | 2991 |
| 2631 | 1400 | | LDN | /SCR/FCRD+0 | | | 272L774 | 5 |

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| | | | | | | | |
|------|------|------|-------|--|---|-------------------------------------|-------------|
| 2632 | 7216 | | OAN | CHSC | | 1AJ | 2993 |
| 2633 | 7016 | | IAN | CHSC | | 1AJ | 2994 |
| 2634 | 1250 | | LPN | 50 | | 1AJ | 2995 |
| 2635 | 0454 | | ZJN | CSFX | IF NO FATAL ERROR | 1AJ | 2996 |
| 2636 | 1240 | | LPN | 40 | | 1AJ | 2997 |
| 2637 | 0552 | | NJN | CSFX | IF *CMC* INPUT ERROR | 1AJ | 2998 |
| 2640 | 2000 | 1267 | LDC | /SCR/FCTB+ /SCR/SDSC | | 272L774 | 6 |
| 2642 | 7216 | | OAN | CHSC | | 1AJ | 3000 |
| 2643 | 7016 | | IAN | CHSC | | 1AJ | 3001 |
| 2644 | 0345 | | CSF0 | UJN | CSFX | RETURN WITH DOUBLE BIT ERROR STATUS | NS21000 108 |
| | | | | | | 1AJ | 3003 |
| 2645 | 3074 | | CSF1 | LDD | CP | GET WORD 3 OF EXCHANGE PACKAGE | 1AJ 3004 |
| 2646 | 1603 | | ADN | 3 | | 1AJ | 3005 |
| 2647 | 6010 | | CRD | CM | | 1AJ | 3006 |
| 2650 | 3010 | | LDD | CM | | 1AJ | 3007 |
| 2651 | 1210 | | LPN | 10 | | 1AJ | 3008 |
| 2652 | 0371 | | UJN | CSF0 | RETURN WITH ERROR STATUS | NS21000 | 109 |
| | | | | | | | |
| | | | ** | PLF - PROCESS LIST OF FILES. | | 1AJ | 3011 |
| | | | * | | | 1AJ | 3012 |
| | | | * | EXIT (A) = 0, IF LIST OF FILES DEFINED. | | 272L774 | 7 |
| | | | * | (T1) = BYTE ZERO OF *LOFW*. | | 272L774 | 8 |
| | | | * | TO *CC02* IF *CIO* IN PROGRESS. | | 272L774 | 9 |
| | | | * | | | 1AJ | 3016 |
| | | | * | USES T8, T9, CM - CM+4, CN - CN+4, T1 - T1+4. | | 272L774 | 10 |
| | | | * | | | 1AJ | 3020 |
| | | | * | CALLS CC0, CFP, CFS, DFM. | | 1AJ | 3021 |
| | | | | | | 1AJ | 3022 |
| | | | | | | 1AJ | 3023 |
| | | | * | LIST OF FILES EXTENDS BEYOND FL OR CONTAINS MORE | | 1AJ | 3024 |
| | | | * | FILES THAN CAN BE IN NFL. | | 1AJ | 3025 |
| | | | | | | 1AJ | 3026 |
| 2653 | 2000 | 5442 | PLF9 | LDC | =C* LIST OF FILES LENGTH TOO LONG OR ZERO.* | 1AJ | 3027 |
| 2655 | 0200 | 0423 | RJM | DFM | | 1AJ | 3028 |
| 2657 | 5000 | 4545 | LDM | CCOA | | 1AJ | 3029 |
| 2661 | 0404 | | ZJN | PLFX | IF NO *CIO* CALLS STARTED | 1AJ | 3030 |
| 2662 | 0100 | 4530 | LJM | CC02 | RESET ERROR FLAG AND DROP PP | 1AJ | 3031 |
| | | | | | | 1AJ | 3032 |
| 2664 | 1401 | | PLF10 | LDN | 1 | INDICATE NO LIST OF FILES | 272L774 11 |
| | | | | | | 272L774 | 12 |
| 2665 | 0100 | 2665 | PLF | SUBR | | ENTRY/EXIT | 1AJ 3033 |
| 2667 | 3074 | | LDD | CP | | READ LIST-OF-FILES WORD | 272L774 13 |
| 2670 | 2100 | 0121 | ADK | LOFW | | | 272L774 14 |
| 2672 | 6001 | | CRD | T1 | | | 272L774 15 |
| 2673 | 3002 | | LDD | T2 | CHECK LIST WITHIN FL | 1AJ | 3034 |
| 2674 | 1277 | | LPN | 77 | | 1AJ | 3035 |
| 2675 | 3416 | | STD | T8 | | 1AJ | 3036 |
| 2676 | 1014 | | SHN | 14 | | 1AJ | 3037 |
| 2677 | 3103 | | ADD | T3 | | 1AJ | 3038 |
| 2700 | 3417 | | STD | T9 | | 1AJ | 3039 |
| 2701 | 0462 | | ZJN | PLF10 | IF NO LIST OF FILES | 272L774 | 16 |
| 2702 | 1071 | | SHN | -6 | | 1AJ | 3040 |
| 2703 | 3256 | | SBD | FL | | 1AJ | 3041 |
| 2704 | 0646 | | PLF0 | PJN | PLF9 | IF LIST STARTS BEYOND FL | 272L774 17 |

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| | | | | | | | | |
|------|------|------|------|--|--|---------------------------|------|------|
| 2705 | 3002 | | LDA | T2,M | READ LIST LENGTH | 1AJ | 3043 | |
| 2713 | 6025 | | CRD | CN | | 1AJ | 3044 | |
| 2714 | 3030 | | LDD | CN+3 | | 1AJ | 3045 | |
| 2715 | 1277 | | LPN | 77 | | 1AJ | 3046 | |
| 2716 | 1014 | | SHN | 14 | | 1AJ | 3047 | |
| 2717 | 3331 | | LMD | CN+4 | | 1AJ | 3048 | |
| 2720 | 0463 | | ZJN | PLF0 | IF LIST OF FILES LENGTH EQUALS ZERO | 272L774 | 18 | |
| 2721 | 5400 | 2730 | STM | PLFA | | 1AJ | 3050 | |
| 2723 | 1063 | | SHN | -14 | | 1AJ | 3051 | |
| 2724 | 5500 | 2727 | RAM | PLFA-1 | | 1AJ | 3052 | |
| | | | | | | 1AJ | 3053 | |
| | | | * | ADVANCE INDEX. | | 1AJ | 3054 | |
| | | | | | | 1AJ | 3055 | |
| 2726 | 3601 | | PLF1 | AOD | T1 | 1AJ | 3056 | |
| 2727 | 2300 | 0000 | LMC | ** | CHECK END OF LIST | 1AJ | 3057 | |
| | | 2730 | PLFA | EQU | *-1 | (LIST LENGTH) | 1AJ | 3058 |
| 2731 | 0431 | | ZJN | PLF4 | IF END OF LIST | 1AJ | 3059 | |
| 2732 | 3001 | | LDD | T1 | | 1AJ | 3060 | |
| 2733 | 0410 | | ZJN | PLF2 | IF LIST LENGTH .GT. 4096 | 1AJ | 3061 | |
| | | | | | | 1AJ | 3062 | |
| | | | * | READ FILE ENTRY. | | 1AJ | 3063 | |
| | | | | | | 1AJ | 3064 | |
| 2734 | 3016 | | LDD | T8 | CHECK LIST ENTRY WITHIN FL | 1AJ | 3065 | |
| 2735 | 1014 | | SHN | 14 | | 1AJ | 3066 | |
| 2736 | 3117 | | ADD | T9 | | 1AJ | 3067 | |
| 2737 | 3101 | | ADD | T1 | ADD INDEX | 1AJ | 3068 | |
| 2740 | 1071 | | SHN | -6 | | 1AJ | 3069 | |
| 2741 | 3256 | | SBD | FL | | 1AJ | 3070 | |
| 2742 | 0703 | | MJN | PLF3 | IF LIST ENTRY WITHIN RANGE | 1AJ | 3071 | |
| 2743 | 0100 | 2653 | PLF2 | LJM | PLF9 | ISSUE DAYFILE MESSAGE | 1AJ | 3072 |
| | | | | | | 1AJ | 3073 | |
| 2745 | 3016 | | PLF3 | LDA | T8 | READ LIST ENTRY | 1AJ | 3074 |
| 2752 | 3101 | | ADD | T1 | | 1AJ | 3075 | |
| 2753 | 6010 | | CRD | CM | | 1AJ | 3076 | |
| 2754 | 3010 | | LDD | CM | | 1AJ | 3077 | |
| 2755 | 0405 | | ZJN | PLF4 | IF END OF LIST | 1AJ | 3078 | |
| 2756 | 2300 | 7777 | LMC | 7777 | CHECK NULL ENTRY | 1AJ | 3079 | |
| 2760 | 0445 | | ZJN | PLF1 | IF NULL ENTRY | 1AJ40 | 1 | |
| 2761 | 0310 | | UJN | PLF6 | CHECK FET PARAMETERS | 1AJ40 | 2 | |
| | | | | | | 1AJ40 | 3 | |
| 2762 | 5000 | 4545 | PLF4 | LDM | CCOA | 1AJ | 3081 | |
| 2764 | 0403 | | ZJN | PLF5 | IF NO *CIO* CALLS STARTED | 1AJ | 3082 | |
| 2765 | 0100 | 4530 | LJM | CC02 | RESET ERROR FLAG AND DROP PP | 1AJ | 3083 | |
| | | | | | | 1AJ | 3084 | |
| 2767 | 0100 | 2665 | PLF5 | LJM | PLFX | RETURN | 1AJ | 3085 |
| | | | | | | 1AJ | 3086 | |
| | | | * | CHECK FOR FILE NAMED *OUTPUT* OR WITH FLUSH BIT SET. | | 1AJ | 3087 | |
| | | | | | | 1AJ | 3088 | |
| 2771 | 0200 | 4550 | PLF6 | RJM | CFP | CHECK FET PARAMETERS | 1AJ | 3089 |
| 2773 | 0512 | | NJN | PLF8 | IF FET ERRORS | 1AJ | 3090 | |
| 2774 | 0200 | 4700 | RJM | CFS | CHECK FET STATUS | 1AJ | 3091 | |
| 2776 | 0705 | | MJN | PLF7 | IF FLUSH STATUS, *OUTPUT* AND NOT *TXOT* | 1AJ | 3092 | |
| 2777 | 0506 | | NJN | PLF8 | IF NO FLUSH STATUS | 1AJ | 3093 | |
| 3000 | 3061 | | LDD | CW+1 | CHECK FLUSH BIT | 1AJ | 3094 | |
| 3001 | 1201 | | LPN | 1 | | 1AJ | 3095 | |
| 3002 | 0403 | | ZJN | PLF8 | IF FLUSH BIT NOT SET | 1AJ | 3096 | |
| 3003 | 0200 | 4437 | PLF7 | RJM | CCO | CALL *CIO* TO DUMP BUFFER | 1AJ | 3097 |

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** EBC - PROCESS BATCH ERROR.

| | | | | | | | | | |
|----|------|------|------|------|---------|---------|-------------------------|---------|------|
| 1 | 3044 | 0100 | 3044 | EBC | SUBR | | ENTRY/EXIT | 1AJ | 3101 |
| 2 | 3046 | 3046 | | | LDD | EF | | 1AJ | 3102 |
| 3 | 3047 | 0474 | | | ZJN | EBCX | IF JOB TERMINATION | 1AJ | 3103 |
| 4 | 3050 | 0200 | 5334 | | RJM | SFX | SEARCH FOR EXIT | 1AJ36 | 1 |
| 5 | 3052 | 5046 | 3072 | | LDM | TERM,EF | | 1AJ36 | 2 |
| 6 | 3054 | 0403 | | | ZJN | EBC1 | IF NO ERROR MESSAGE | 1AJ | 3105 |
| 7 | 3055 | 0200 | 0423 | | RJM | DFM | SEND DAYFILE MESSAGE | 1AJ | 3106 |
| 8 | 3057 | 5046 | 3141 | EBC1 | LDM | TERP,EF | PROCESS ERROR | 1AJ | 3107 |
| 9 | 3061 | 0462 | | | ZJN | EBCX | IF NO SPECIAL PROCESSOR | 1AJ | 3108 |
| 10 | 3062 | 5400 | 3071 | | STM | EBCA | PROCESS ERROR | 1AJ | 3109 |
| 11 | 3064 | 2036 | 0114 | | EXECUTE | 3AL | | 1AJ | 3110 |
| 12 | 3070 | 0100 | 3070 | | LJM | * | | V23L617 | 137 |
| 13 | | | 3071 | EBCA | EQU | *-1 | | 1AJ | 3111 |
| 14 | | | | | | | | | 3112 |
| 15 | | | | | | | | | 3113 |

** TERM - TABLE OF ERROR MESSAGES.

* INDEXED BY ERROR FLAG.

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| 23 | 3072 | | | TERM | INDEX | | | 1AJ | 3120 |
| 24 | | | | | | | | 1AJ | 3121 |
| 25 | L 4 | 5467 | | INDEX | ITET, (=C* SCP INCORRECT TRANSFER ADDRESS.*) | | | V23L617 | 138 |
| 26 | L 15 | 5510 | | INDEX | TLET, (=C* TIME LIMIT.*) | | | 1AJ | 3123 |
| 27 | L 16 | 5517 | | INDEX | FLET, (=C* LOCAL FILE LIMIT.*) | | | 1AJ | 3124 |
| 28 | L 24 | 5531 | | INDEX | ODET, (=C* OPERATOR DROP.*) | | | 1AJ | 3125 |
| 29 | L 34 | 5542 | | INDEX | RRET, (=C* JOB RERUN.*) | | | 1AJ46 | 5 |
| 30 | L 37 | 5551 | | INDEX | DRET, (=C* RECOVERY RERUN.*) | | | 1AJ | 3126 |
| 31 | L 35 | 5562 | | INDEX | OKET, (=C* OPERATOR KILL.*) | | | 1AJ | 3127 |
| 32 | L 23 | 5573 | | INDEX | RCET, (=C* JOB HUNG IN AUTORECALL.*) | | | NS2112 | 5 |
| 33 | L 41 | 5610 | | INDEX | JSET, (=C* JOB STEP ABORT.*) | | | 242L642 | 301 |
| 34 | L 42 | 5621 | | INDEX | SVET, (=C* SECURITY CONFLICT.*) | | | NS22000 | 179 |
| 35 | L 32 | 5634 | | INDEX | SSET, (=C* SUBSYSTEM ABORTED.*) | | | 1AJ | 3129 |
| 36 | L 43 | 5647 | | INDEX | SYET, (=C* SYSTEM ABORT.*) | | | 1AJ | 3130 |
| 37 | L 40 | 5657 | | INDEX | RAET, (=C* JOB IN NORERUN STATE ON RECOVERY.*) | | | 1AJ17 | 1 |
| 38 | L 45 | 5701 | | INDEX | SWET, (=C* SYSTEM ERROR.*) | | | 241L630 | 49 |
| 39 | L 46 | 5711 | | INDEX | ORET, (=C* OPERATOR OVERRIDE.*) | | | 1AJ | 3132 |
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*
* INDEXED BY ERROR FLAG.

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1AJ 3142
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| L | 2 | 3224 | INDEX | TAET,PTA | USER BREAK TWO |
| L | 3 | 6147 | INDEX | ARET,/EFX/ARI | ARITHMETIC ERROR |
| L | 5 | 7166 | INDEX | PSET,/EFX/PST | PROGRAM STOP |
| L | 6 | 7126 | INDEX | PPET,/EFX/PPA | PPU ABORT |
| L | 10 | 7000 | INDEX | PCET,/EFX/MCL | MONITOR CALL ERROR |
| L | 13 | 6535 | INDEX | CLET,/EFX/CML | COMMAND LIMIT |
| L | 14 | 6714 | INDEX | MLET,/EFX/MSL | MESSAGE LIMIT |
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| L | 25 | 3210 | INDEX | IDET,IDL | IDLEDOWN SUBSYSTEM |
| L | 34 | 3265 | INDEX | RRET,RER | RERUN JOB |
| L | 37 | 6063 | INDEX | DRET,/EFX/DRE | DEADSTART RERUN |
| L | 35 | 3516 | INDEX | OKET,TRJ | OPERATOR KILL |
| L | 42 | 3424 | INDEX | SVET,SVE | SECURITY VIOLATION |
| L | 44 | 6147 | INDEX | PEET,/EFX/ARI | CPU PARITY ERROR |
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| L | 40 | 3247 | INDEX | RAET,RAB | RECOVERY ABORT |
| L | 45 | 3477 | INDEX | SWET,SWE | SYSTEM SOFTWARE ERROR |
| L | 46 | 7076 | INDEX | ORET,/EFX/ORE | OPERATOR OVERRIDE |

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NS2463 1
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1AJ 3157
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1AJ 3161
1AJ 3162

** IDL - IDLEDOWN SUBSYSTEM.
*
* EXIT TO *PEF5* IF NOT SPECIAL SUBSYSTEM.

1AJ 3307
NS21000 112
NS21000 113

3210

| | | | | |
|------|------|------|--------------------------|---------------------|
| IDL | BSS | 0 | ENTRY | |
| 3210 | IDLA | LDN | 0 | CHECK FOR SUBSYSTEM |
| * | LDN | 1 | (SPECIAL SUBSYSTEM IDLE) | |
| 3211 | NJN | IDL1 | IF SPECIAL SUBSYSTEM | |

1AJ 3321
1AJ 3322
NS21000 114
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NS2009 35
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* PROCESS NON-SPECIAL SUBSYSTEM JOB.

1AJ 3326
1AJ 3327
1AJ 3328

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3213

3214

| | | | |
|-----------|-----|------|------------------------------|
| 1424 | LDK | ODET | CHANGE ERROR FLAG TO *ODET* |
| 3446 | STD | EF | |
| 0100 2376 | LJM | PEF5 | PROCESS AS *ODET* ERROR FLAG |

1AJ 3329
1AJ 3330
1AJ 3331

* IDLEDOWN SUBSYSTEM.

1AJ 3332
1AJ 3333
1AJ 3334

3216

3222

| | | | | |
|-----------|------|----------|--------------------------|--|
| 2036 0114 | IDL1 | EXECUTE | 3AL | |
| 0100 6104 | LJM | /EFX/IDL | EXECUTE IDLEDOWN ROUTINE | |

NS21000 115
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| | | | | | | | |
|--|------|-----------|------|---|--|---------|------|
| | | | ** | PTA - PROCESS TERMINAL ABORT (USER BREAK 2). | | 1AJ | 3547 |
| | | | * | | | 1AJ | 3548 |
| | | | * | EXIT TO *EBCX*. | | 1AJ | 3549 |
| | | | * | | | 1AJ | 3550 |
| | | | * | CALLS CMF, DFM, DTC, PLF. | | 1AJ | 3553 |
| | | | | | | 1AJ | 3554 |
| | | | | | | 1AJ | 3555 |
| | 3224 | | PTA | BSS 0 ENTRY | | 1AJ | 3556 |
| | 3224 | 0200 3734 | | RJM DTC PROCESS DISABLED TERMINAL CONTROL | | 1AJ | 3557 |
| | | | | | | 1AJ | 3558 |
| | | | * | CONTROL WILL RETURN FROM *DTC* ONLY IF DISABLED | | 1AJ | 3559 |
| | | | * | TERMINAL CONTROL WAS NOT PROCESSED. | | 1AJ | 3560 |
| | | | | | | 1AJ | 3561 |
| | 3226 | 3056 | | LDD FL CHECK FIELD LENGTH | | 1AJ | 3564 |
| | 3227 | 0406 | | ZJN PTA2 IF NO FIELD LENGTH ASSIGNED | | 1AJ | 3565 |
| | 3230 | 0200 2666 | | RJM PLF PROCESS LIST OF FILES | | 1AJ | 3573 |
| | 3232 | 0403 | | ZJN PTA2 IF LIST OF FILES DEFINED | | 272L774 | 19 |
| | 3233 | 0200 2443 | | RJM CMF COMPLETE SPECIAL FILES | | 272L774 | 20 |
| | 3235 | 2001 5724 | PTA2 | LDC =C* USER BREAK TWO ENCOUNTERED.*+NMSN | | 1AJ26 | 1 |
| | 3237 | 0200 0423 | | RJM DFM ISSUE DAYFILE MESSAGE | | 1AJ26 | 2 |
| | 3241 | 0100 3044 | | UJP EBCX RETURN | | 1AJ26 | 3 |
| | | | | | | | |
| | | | ** | PTI - PROCESS TERMINAL INTERRUPT (USER BREAK 1). | | 1AJ | 3579 |
| | | | * | | | 1AJ | 3580 |
| | | | * | EXIT TO *//ROJ* TO ROLLOUT JOB. | | 1AJ | 3581 |
| | | | * | | | 1AJ | 3582 |
| | | | * | CALLS DTC. | | 1AJ | 3583 |
| | | | | | | 1AJ | 3584 |
| | | | | | | 1AJ | 3585 |
| | 3243 | | PTI | BSS 0 ENTRY | | 1AJ | 3586 |
| | 3243 | 0200 3734 | | RJM DTC PROCESS DISABLED TERMINAL CONTROL | | 1AJ | 3587 |
| | | | | | | 1AJ | 3588 |
| | | | * | CONTROL WILL RETURN FROM *DTC* ONLY IF DISABLED | | 1AJ | 3589 |
| | | | * | TERMINAL CONTROL WAS NOT PROCESSED. | | 1AJ | 3590 |
| | | | | | | 1AJ | 3591 |
| | 3245 | 0100 1611 | | LJM //ROJ ROLLOUT JOB | | 1AJ | 3592 |
| | | | | | | | |
| | | | ** | RAB - PROCESS RECOVERY ABORT. | | 1AJ | 3594 |
| | | | * | | | 1AJ | 3595 |
| | | | * | SETS THE JOB TERMINATION STATUS OF NON-INTERACTIVE | | V23L617 | 157 |
| | | | * | JOB TO *TJJT* AND ADVANCES THE JOB TO THE NEXT *EXIT* | | 1AJ | 3597 |
| | | | * | COMMAND. | | V23L617 | 158 |
| | | | * | | | 1AJ | 3599 |
| | | | * | EXIT TO *EBCX*. | | 1AJ | 3600 |
| | | | * | | | 1AJ | 3601 |
| | | | * | CALLS RSF, SEJ. | | 1AJ17 | 4 |
| | | | | | | 1AJ | 3603 |
| | | | | | | 1AJ | 3604 |
| | 3247 | | RAB | BSS 0 ENTRY | | 1AJ | 3605 |
| | 3247 | 0200 5237 | | RJM RSF RETURN SPECIAL FILES | | NS2117 | 2 |
| | 3251 | 5000 1217 | | LDM TSTN CHECK TERMINAL NUMBER | | 1AJ | 3606 |

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| | | | | | | | | |
|--|-----------|------|------|--------------|--|---------|---------|------|
| 3253 | 0510 | | NJN | RAB1 | IF ON-LINE INTERACTIVE JOB | 1AJ | 3607 | |
| 3254 | 5000 1107 | | LDM | JBCS | CHECK CONNECTION STATUS | NS2117 | 3 | |
| 3256 | 1101 | | LMN | DTCS | | NS2117 | 4 | |
| 3257 | 0504 | | NJN | RAB1 | IF BATCH JOB | NS2117 | 5 | |
| 3260 | 1401 | | LDN | SUJT | SET JOB OPTION FOR DETACHED JOB | NS2117 | 6 | |
| 3261 | 0200 5215 | | RJM | SEJ | SET END OF JOB OPTION | 1AJ | 3609 | |
| 3263 | 0100 3044 | RAB1 | LJM | EBCX | RETURN | NS2117 | 7 | |
| ** RER - RERUN JOB. | | | | | | | 1AJ | 3612 |
| * SETS THE JOB TERMINATION OPTION FOR NON-INTERACTIVE | | | | | | | 1AJ | 3613 |
| * JOB TO *RJJT*, ISSUES THE RERUN ACCOUNT FILE MESSAGE, | | | | | | | V23L617 | 159 |
| * AND ADVANCES THE JOB TO THE NEXT *EXIT* COMMAND. | | | | | | | 1AJ51 | 1 |
| * EXIT TO *EBCX*. | | | | | | | 1AJ51 | 2 |
| * CALLS DFM, ESB, SEJ. | | | | | | | 1AJ | 3616 |
| * CALLS DFM, ESB, SEJ. | | | | | | | 1AJ | 3617 |
| * CALLS DFM, ESB, SEJ. | | | | | | | 1AJ | 3618 |
| * CALLS DFM, ESB, SEJ. | | | | | | | 1AJ51 | 3 |
| * CALLS DFM, ESB, SEJ. | | | | | | | 1AJ | 3620 |
| * CALLS DFM, ESB, SEJ. | | | | | | | 1AJ | 3621 |
| 3265 | | RER | BSS | 0 | ENTRY | 1AJ | 3622 | |
| 3265 | 0200 5130 | | RJM | ESB | EMPTY COMMAND BUFFER | V23L617 | 160 | |
| 3267 | 5000 1217 | | LDM | TSTN | CHECK TERMINAL NUMBER | 1AJ | 3624 | |
| 3271 | 0510 | | NJN | RER1 | IF ON-LINE INTERACTIVE JOB | 1AJ | 3625 | |
| 3272 | 1402 | | LDN | RJJT | SELECT RERUN JOB OPTION | 1AJ | 3626 | |
| 3273 | 0200 5215 | | RJM | SEJ | SET END-OF-JOB OPTION | 1AJ | 3627 | |
| 3275 | 2005 3303 | | LDC | RREA+ACFN | ISSUE ACCOUNT FILE MESSAGE | 1AJ51 | 4 | |
| 3277 | 0200 0423 | | RJM | DFM | | 1AJ51 | 5 | |
| 3301 | 0100 3044 | RER1 | LJM | EBCX | EXIT | 1AJ | 3628 | |
| * CALLS DFM, ESB, SEJ. | | | | | | | 1AJ51 | 6 |
| * CALLS DFM, ESB, SEJ. | | | | | | | 1AJ51 | 7 |
| 3303 | 0105 | RREA | DATA | C*AERR, OP.* | | 1AJ51 | 8 | |
| ** SRL - SRU LIMIT ERROR PROCESSOR. | | | | | | | 1AJ | 3630 |
| * INCREASES USERS SRU LIMIT BY DSLI UNITS SO THAT THE USER MAY | | | | | | | 1AJ | 3631 |
| * FINISH CURRENT PROCESSING. | | | | | | | 1AJ | 3632 |
| * EXIT TO *EBCX*. | | | | | | | 1AJ | 3633 |
| * CALLS DFM, ITL, SCR. | | | | | | | 1AJ | 3634 |
| * CALLS DFM, ITL, SCR. | | | | | | | 1AJ | 3635 |
| * CALLS DFM, ITL, SCR. | | | | | | | 1AJ | 3636 |
| * CALLS DFM, ITL, SCR. | | | | | | | NS2323 | 116 |
| * CALLS DFM, ITL, SCR. | | | | | | | 1AJ | 3638 |
| * CALLS DFM, ITL, SCR. | | | | | | | 1AJ | 3639 |
| * CALLS DFM, ITL, SCR. | | | | | | | 1AJ | 3640 |
| * CALLS DFM, ITL, SCR. | | | | | | | 1AJ | 3641 |
| 3311 | 3074 | SRL | LDD | CP | CHECK IF ACCOUNT BLOCK OR JOB STEP LIMIT | 1AJ | 3642 | |
| 3312 | 1651 | | ADN | SRUW | | 1AJ | 3643 | |
| 3313 | 6010 | | CRD | CM | | 1AJ | 3644 | |
| 3314 | 1606 | | ADN | STLW-SRUW | COMPARE ACCUMULATOR TO ACCOUNT BLOCK LIMIT | 1AJ | 3645 | |
| 3315 | 6003 | | CRD | T3 | | 1AJ | 3646 | |
| 3316 | 3004 | | LDD | T3+1 | | 1AJ | 3647 | |
| 3317 | 1377 | | SCN | 77 | | 1AJ | 3648 | |

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|------|------|------|------|---------|--------------------------|-----------------------------------|-----------------------------|--------|------|
| 3320 | 1006 | | | SHN | 6 | | | 1AJ | 3649 |
| 3321 | 3303 | | | LMD | T3 | | | 1AJ | 3650 |
| 3322 | 1006 | | | SHN | 6 | | | 1AJ | 3651 |
| 3323 | 3407 | | | STD | T3+4 | | | 1AJ | 3652 |
| 3324 | 1063 | | | SHN | -14 | | | 1AJ | 3653 |
| 3325 | 3406 | | | STD | T3+3 | | | 1AJ | 3654 |
| 3326 | 1400 | | | LDN | 0 | | | 1AJ | 3655 |
| 3327 | 3405 | | | STD | T3+2 | | | 1AJ | 3656 |
| 3330 | 1402 | | | LDN | 2 | | | 1AJ | 3657 |
| 3331 | 3401 | | | STD | T1 | | | 1AJ | 3658 |
| 3332 | 3077 | | | LDD | MA | | | 1AJ | 3659 |
| 3333 | 6301 | 0003 | | CWM | T3,T1 | | | 1AJ | 3660 |
| 3335 | 3010 | | | LDD | CM | CHECK IF VALIDATION LIMIT REACHED | | 1AJ | 3661 |
| 3336 | 1010 | | | SHN | 21-11 | | | 1AJ | 3662 |
| 3337 | 0603 | | | PJN | SRL1 | IF NOT VALIDATION LIMIT | | 1AJ | 3663 |
| 3340 | 0200 | 5176 | | RJM | SCR | SET CHARGE REQUIRED | | NS2323 | 117 |
| 3342 | 1411 | | SRL1 | LDN | 11 | 3/OPERATION FLAG,3/WORD COUNT | | 1AJ | 3673 |
| 3343 | 3414 | | | STD | CM+4 | | | 1AJ | 3674 |
| 3344 | 1406 | | | LDN | ABIF | SUBFUNCTION CODE | | 1AJ | 3675 |
| 3345 | 3411 | | | STD | CM+1 | | | 1AJ | 3676 |
| 3346 | 1425 | | | MONITOR | ACTM | | | 1AJ | 3677 |
| 3351 | 3077 | | | LDD | MA | | | 1AJ | 3678 |
| 3352 | 6010 | | | CRD | CM | | | 1AJ | 3679 |
| 3353 | 3010 | | | LDD | CM | | | 1AJ | 3680 |
| 3354 | 1006 | | | SHN | 6 | | | 1AJ | 3681 |
| 3355 | 0707 | | | MJN | SRL2 | IF NOT ACCOUNT BLOCK LIMIT | | 1AJ | 3682 |
| 3356 | 1404 | | | LDN | RLIA-RLIS | | | 1AJ | 3683 |
| 3357 | 5500 | 3372 | | RAM | SRLA | | | 1AJ | 3684 |
| 3361 | 2000 | 3377 | | LDC | SRLB | | | 1AJ | 3685 |
| 3363 | 0303 | | | UJN | SRL3 | ISSUE ACCOUNT BLOCK LIMIT MESSAGE | | 1AJ | 3686 |
| | | | | | | | | 1AJ | 3687 |
| 3364 | 2000 | 3413 | | SRL2 | LDC | SRLC | | 1AJ | 3688 |
| 3366 | 0200 | 0423 | | SRL3 | RJM | DFM | ACCOUNT BLOCK LIMIT MESSAGE | 1AJ | 3689 |
| 3370 | 1410 | | | LDN | DSLII | | | 1AJ | 3690 |
| 3371 | 3414 | | | STD | CM+4 | | | 1AJ | 3691 |
| 3372 | 1402 | | | LDN | RLIS | SRU REQUEST | | 1AJ | 3692 |
| | | | | LDN | RLIA | (ACCOUNT BLOCK LIMIT) | | 1AJ | 3693 |
| | | | 3372 | * SRLA | EQU | *-1 | | 1AJ | 3694 |
| 3373 | 0200 | 5164 | | RJM | ITL | REQUEST LIMIT INCREASE | | 1AJ | 3695 |
| 3375 | 0100 | 3044 | | LJM | EBCX | RETURN | | 1AJ | 3696 |
| | | | | | | | | 1AJ | 3697 |
| | | | | | | | | 1AJ | 3698 |
| 3377 | 5501 | | SRLB | DATA | C* ACCOUNT BLOCK LIMIT.* | | | 1AJ | 3699 |
| 3413 | 5512 | | SRLC | DATA | C* JOB STEP LIMIT.* | | | 1AJ | 3700 |

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|----|------|-----------|--|------|--|--------------------------------------|--|---------|------|----|
| 1 | | | | ** | SWE - PROCESS SYSTEM SOFTWARE ERROR. | | | 241L630 | 52 | 1 |
| 2 | | | | * | | | | 241L630 | 53 | 2 |
| 3 | | | | * | SETS THE JOB TERMINATION OPTION TO *SRJT*, | | | 241L630 | 54 | 3 |
| 4 | | | | * | ISSUES THE SYSTEM SOFTWARE ERROR ACCOUNT | | | 241L630 | 55 | 4 |
| 5 | | | | * | FILE MESSAGE, AND TERMINATES THE JOB. | | | 241L630 | 56 | 5 |
| 6 | | | | * | | | | 241L630 | 57 | 6 |
| 7 | | | | * | EXIT TO *EBCX*. | | | 241L630 | 58 | 7 |
| 8 | | | | * | | | | 241L630 | 59 | 8 |
| 9 | | | | * | CALLS ESB, LOF. | | | 241L630 | 60 | 9 |
| 10 | | | | | | | | 241L630 | 61 | 10 |
| 11 | | | | | | | | 241L630 | 62 | 11 |
| 12 | 3477 | | | SWE | BSS 0 | ENTRY | | 241L630 | 63 | 12 |
| 13 | 3477 | 5000 1107 | | | LDM JBCS | CHECK JOB CONNECTION STATUS | | 241L630 | 73 | 13 |
| 14 | 3501 | 1102 | | | LMK OLCS | | | 241L630 | 74 | 14 |
| 15 | 3502 | 0403 | | | ZJN SWE1 | IF ON-LINE INTERACTIVE JOB | | 241L630 | 75 | 15 |
| 16 | 3503 | 1103 | | | LMK DTCS&OLCS | | | 241L630 | 76 | 16 |
| 17 | 3504 | 0503 | | | NJN SWE2 | IF NON-INTERACTIVE JOB | | 241L630 | 77 | 17 |
| 18 | 3505 | 0100 3516 | | SWE1 | LJM TRJ | TERMINATE JOB | | NS2323 | 122 | 18 |
| 19 | | | | | | | | 241L630 | 79 | 19 |
| 20 | | | | | | | | 241L630 | 80 | 20 |
| 21 | 3507 | 0200 5130 | | SWE2 | RJM ESB | EMPTY COMMAND BUFFER | | 241L630 | 80 | 21 |
| 22 | 3511 | 1404 | | | LDN SRJT | SELECT *SOFTWARE ERROR RERUN* OPTION | | 241L630 | 81 | 22 |
| 23 | 3512 | 0200 5215 | | | RJM SEJ | | | 241L630 | 82 | 23 |
| 24 | 3514 | 0100 3044 | | | LJM EBCX | RETURN | | 241L630 | 83 | 24 |
| 25 | | | | | | | | | | 25 |
| 26 | | | | ** | TRJ - TERMINATE JOB. | | | NS2323 | 124 | 26 |
| 27 | | | | * | | | | 1AJ | 3842 | 27 |
| 28 | | | | * | EXIT TO *EBCX*. | | | 1AJ | 3843 | 28 |
| 29 | | | | * | | | | 1AJ | 3844 | 29 |
| 30 | | | | * | CALLS CJA. | | | NS2323 | 125 | 30 |
| 31 | | | | | | | | 1AJ | 3848 | 31 |
| 32 | | | | | | | | 1AJ | 3849 | 32 |
| 33 | 3516 | | | TRJ | BSS 0 | ENTRY | | NS2323 | 126 | 33 |
| 34 | 3516 | 0200 4767 | | | RJM CJA | CLEAR JOB ACTIVITY | | NS2323 | 127 | 34 |
| 35 | 3520 | 0100 3044 | | | LJM EBCX | EXIT | | NS2323 | 128 | 35 |
| 36 | | | | | | | | | | 36 |
| 37 | | | | | | | | | | 37 |
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| | ** | | | | CEI - CHECK ERROR INTERRUPT. | | 1AJ | 3860 |
| | * | | | | | | 1AJ | 3861 |
| | * | | | | ENTRY (CW - CW+4) = ERROR EXIT CONTROL WORD. | | 1AJ | 3862 |
| | * | | | | | | 1AJ | 3863 |
| | * | | | | EXIT TO *RIP* TO SET REPRIEVE PARAMETERS. | | 1AJ | 3864 |
| | * | | | | TO *SPI* TO SET PENDING INTERRUPT. | | 1AJ | 3865 |
| | * | | | | | | 1AJ | 3866 |
| | * | | | | USES T1 - T5, CM - CM+4, AB - AB+4, FS - FS+4. | | 1AJ | 3867 |
| | * | | | | | | 1AJ | 3868 |
| | * | | | | CALLS CJS,DFM. | | 1AJ | 3869 |
| | | | | | | | 1AJ | 3870 |
| | | | | | | | 1AJ | 3871 |
| | | | | | | | 1AJ | 3872 |
| 11 | | 3522 | 1400 | CEI10 | LDN 0 | CLEAR REPRIEVE OPTIONS | 1AJ | 3873 |
| 12 | | 3523 | 3461 | CEI11 | STD CW+1 | | 1AJ | 3874 |
| 13 | | 3524 | 3074 | | LDD CP | WRITE EXIT CONTROL WORD | 1AJ | 3875 |
| 14 | | 3525 | 1671 | | ADN EECW | | 1AJ | 3876 |
| 15 | | 3526 | 6260 | | CWD CW | | 1AJ | 3877 |
| 16 | | | | | | | 1AJ | 3878 |
| 17 | | 3527 | 0100 3527 | CEI | SUBR | ENTRY/EXIT | 1AJ | 3879 |
| 18 | | 3531 | 5046 4320 | | LDM TROF,EF | CHECK REPRIEVE OPTIONS | 1AJ | 3880 |
| 19 | | 3533 | 5400 3537 | | STM CEIA | | 1AJ | 3881 |
| 20 | | 3535 | 3065 | | LDD RF | | 1AJ | 3882 |
| 21 | | 3536 | 2200 3536 | | LPC * | (REPRIEVE OPTION) | 1AJ | 3883 |
| 22 | | | 3537 | CEIA | EQU *-1 | | 1AJ | 3884 |
| 23 | | 3540 | 0462 | | ZJN CEI11 | IF THIS ERROR NOT SELECTED | 1AJ | 3885 |
| 24 | | 3541 | 0200 2413 | | RJM CJS | CHECK JOB STATUS | 1AJ | 3886 |
| 25 | | 3543 | 0457 | | ZJN CEI11 | IF JOB STEP COMPLETE | 1AJ | 3887 |
| 26 | | 3544 | 3046 | | LDD EF | CHECK ERROR | 1AJ | 3888 |
| 27 | | 3545 | 1135 | | LMN OKET | | 1AJ | 3889 |
| 28 | | 3546 | 0507 | | NJN CEI1 | IF NOT OPERATOR KILL | 1AJ | 3890 |
| 29 | | 3547 | 3060 | | LDD CW | | 1AJ | 3891 |
| 30 | | 3550 | 1011 | | SHN 21-10 | | 1AJ | 3892 |
| 31 | | 3551 | 0750 | | MJN CEI10 | IF PREVIOUS KILL REPRIEVED | 1AJ | 3893 |
| 32 | | 3552 | 2000 0400 | | LDC 400 | SET KILL REPRIEVED | 1AJ | 3894 |
| 33 | | 3554 | 3560 | | RAD CW | | 1AJ | 3895 |
| 34 | | 3555 | 3063 | CEI1 | LDD CW+3 | VALIDATE BLOCK ADDRESS | 1AJ | 3896 |
| 35 | | 3556 | 1237 | | LPN 37 | | 1AJ | 3897 |
| 36 | | 3557 | 1006 | | SHN 6 | | 1AJ | 3898 |
| 37 | | 3560 | 3256 | | SBD FL | | 1AJ | 3899 |
| 38 | | 3561 | 1006 | | SHN 6 | | 1AJ | 3900 |
| 39 | | 3562 | 3164 | | ADD CW+4 | | 1AJ | 3901 |
| 40 | | 3563 | 1607 | | ADN 7 | | 1AJ | 3902 |
| 41 | | 3564 | 0625 | | PJN CEI2 | IF BLOCK PARAMETERS OUTSIDE FL | 1AJ | 3903 |
| 42 | | 3565 | 1707 | | SBN 7 | | 1AJ | 3904 |
| 43 | | 3566 | 1014 | | SHN 14 | | 1AJ | 3905 |
| 44 | | 3567 | 3156 | | ADD FL | | 1AJ | 3906 |
| 45 | | 3570 | 3155 | | ADD RA | | 1AJ | 3907 |
| 46 | | 3571 | 1006 | | SHN 6 | READ BLOCK PARAMETERS | 1AJ | 3908 |
| 47 | | | | | ADK /COMSRPV/LNTH | | 1AJ | 3909 |
| 48 | | 3572 | 6010 | | CRD CM | | 1AJ | 3910 |
| 49 | | 3573 | 1601 | | ADN /COMSRPV/CKLW | READ CHECKSUM LWA | 1AJ | 3911 |
| 50 | | 3574 | 6025 | | CRD CN | | 1AJ | 3912 |
| 51 | | 3575 | 1601 | | ADN /COMSRPV/CKSM- /COMSRPV/CKLW | READ CHECKSUM | 1AJ | 3913 |
| 52 | | 3576 | 6001 | | CRD T1 | | 1AJ | 3914 |
| 53 | | 3577 | 1601 | | ADN /COMSRPV/ERCD- /COMSRPV/CKSM | READ COMMON ERROR CODES | 1AJ | 3915 |
| 54 | | 3600 | 6020 | | CRD FS | | 1AJ | 3916 |

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| 3601 | 1604 | | ADN | /COMSRPV/OSEF-/COMSRPV/ERC | READ SYSTEM ERROR FLAG | 1AJ | 3917 |
| 3602 | 6032 | | CRD | AB | | 1AJ | 3918 |
| 3603 | 1707 | | SBN | /COMSRPV/OSEF | VALIDATE OPERATING SYSTEM ERROR FLAG | 1AJ | 3919 |
| 3604 | 1014 | | SHN | 14 | | 1AJ | 3920 |
| 3605 | 3255 | | SBD | RA | | 1AJ | 3921 |
| 3606 | 3256 | | SBD | FL | | 1AJ | 3922 |
| 3607 | 1006 | | SHN | 6 | | 1AJ | 3923 |
| 3610 | 3113 | | ADD | CM+3 | | 1AJ | 3924 |
| 3611 | 0617 | CEI2 | PJN | CEI3 | IF BLOCK LWA OUTSIDE FL | 1AJ | 3925 |
| 3612 | 3013 | | LDD | CM+3 | | 1AJ | 3926 |
| 3613 | 1731 | | SBN | /COMSRPV/REPL | | 1AJ | 3927 |
| 3614 | 0714 | | MJN | CEI3 | IF BLOCK LENGTH TOO SHORT | 1AJ | 3928 |
| 3615 | 3030 | | LDD | CN+3 | | 1AJ | 3929 |
| 3616 | 1237 | | LPN | 37 | | 1AJ | 3930 |
| 3617 | 3430 | | STD | CN+3 | | 1AJ | 3931 |
| 3620 | 1014 | | SHN | 14 | | 1AJ | 3932 |
| 3621 | 3131 | | ADD | CN+4 | | 1AJ | 3933 |
| 3622 | 1702 | | SBN | 2 | | 1AJ | 3934 |
| 3623 | 0705 | | MJN | CEI3 | IF INCORRECT TRANSFER ADDRESS | V23L617 | 162 |
| 3624 | 1602 | | ADN | 2 | | 1AJ | 3936 |
| 3625 | 1071 | | SHN | -6 | | 1AJ | 3937 |
| 3626 | 3256 | | SBD | FL | | 1AJ | 3938 |
| 3627 | 0705 | | MJN | CEI4 | IF TRANSFER ADDRESS WITHIN FL | 1AJ | 3939 |
| 3630 | 2000 5743 | CEI3 | LDC | =C* REPRIEVE | BLOCK ERROR.* | 1AJ | 3940 |
| 3632 | 0100 3727 | | LJM | CEI8 | ISSUE DAYFILE MESSAGE | 1AJ | 3941 |
| | | | | | | 1AJ | 3942 |
| 3634 | 3027 | CEI4 | LDD | CN+2 | CHECK IF CHECKSUM NEEDED | 1AJ | 3943 |
| 3635 | 1377 | | SCN | 77 | | 1AJ | 3944 |
| 3636 | 1006 | | SHN | 6 | | 1AJ | 3945 |
| 3637 | 3126 | | ADD | CN+1 | | 1AJ | 3946 |
| 3640 | 2277 3777 | | LPC | 773777 | | 1AJ | 3947 |
| 3642 | 3414 | | STD | CM+4 | PRESET CHECKSUM GOOD | 1AJ | 3948 |
| 3643 | 0430 | | ZJN | CEI6 | IF NO CHECKSUM REQUIRED | 1AJ | 3949 |
| 3644 | 3256 | | SBD | FL | | 1AJ | 3950 |
| 3645 | 1006 | | SHN | 6 | | 1AJ | 3951 |
| 3646 | 0661 | CEI5 | PJN | CEI3 | IF CHECKSUM LWA OUTSIDE FL | 1AJ | 3952 |
| 3647 | 1014 | | SHN | 14 | | 1AJ | 3953 |
| 3650 | 3156 | | ADD | FL | | 1AJ | 3954 |
| 3651 | 1006 | | SHN | 6 | | 1AJ | 3955 |
| 3652 | 1601 | | ADN | 1 | | 1AJ | 3956 |
| 3653 | 3231 | | SBD | CN+4 | SET WORD COUNT | 1AJ | 3957 |
| 3654 | 3412 | | STD | CM+2 | | 1AJ | 3958 |
| 3655 | 0752 | | MJN | CEI3 | IF LWA+1 .LT. FWA | 1AJ | 3959 |
| 3656 | 1063 | | SHN | -14 | | 1AJ | 3960 |
| 3657 | 3230 | | SBD | CN+3 | | 1AJ | 3961 |
| 3660 | 0747 | | MJN | CEI3 | IF LWA+1 .LT. FWA | 1AJ | 3962 |
| 3661 | 3411 | | STD | CM+1 | | 1AJ | 3963 |
| 3662 | 3030 | | LDD | CN+3 | SET CHECKSUM FWA | 1AJ | 3964 |
| 3663 | 3413 | | STD | CM+3 | | 1AJ | 3965 |
| 3664 | 3031 | | LDD | CN+4 | | 1AJ | 3966 |
| 3665 | 3414 | | STD | CM+4 | | 1AJ | 3967 |
| 3666 | 3077 | | LDD | MA | | 1AJ | 3968 |
| 3667 | 6201 | | CWD | T1 | | 1AJ | 3969 |
| 3670 | 1430 | | MONITOR | CKSM | COMPUTE CHECKSUM | 1AJ | 3970 |
| 3673 | 3060 | CEI6 | LDD | CW | CHECK INTERRUPT PROCESSOR ACTIVE | 1AJ | 3971 |
| 3674 | 1010 | | SHN | 21-11 | | 1AJ | 3972 |
| 3675 | 0624 | | PJN | CEI7 | IF INTERRUPT PROCESSOR NOT ACTIVE | 1AJ | 3973 |

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| 3676 | 5046 | 4320 | | LDM | TROF,EF | | 1AJ | 3974 |
| 3700 | 2200 | 0163 | | LPC | 163 | | 1AJ | 3975 |
| 3702 | 0527 | | | NJN | CEI9 | IF INTERRUPT PROCESSOR ABORTED - EXIT | 1AJ | 3976 |
| 3703 | 3046 | | | LDD | EF | | NS2021 | 1 |
| 3704 | 1115 | | | LMN | TLET | | NS2021 | 2 |
| 3705 | 0405 | | | ZJN | CEI6.2 | IF TIME LIMIT | NS2021 | 3 |
| 3706 | 1135 | | | LMN | SRET&TLET | | NS2021 | 4 |
| 3707 | 0403 | | | ZJN | CEI6.2 | IF SRU LIMIT | NS2021 | 5 |
| 3710 | 0100 | 4166 | CEI6.1 | LJM | SPI | SET PENDING INTERRUPT | NS2021 | 6 |
| | | | | | | | NS2021 | 7 |
| 3712 | 3060 | | CEI6.2 | LDD | CW | | NS2021 | 8 |
| 3713 | 1012 | | | SHN | 21-7 | | NS2021 | 9 |
| 3714 | 0715 | | | MJN | CEI9 | IF CONDITION PREVIOUSLY ENCOUNTERED | NS2021 | 10 |
| 3715 | 2000 | 0200 | | LDC | 200 | | NS2021 | 11 |
| 3717 | 3560 | | | RAD | CW | | NS2021 | 12 |
| 3720 | 0367 | | | UJN | CEI6.1 | SET PENDING INTERRUPT | NS2021 | 13 |
| | | | | | | | 1AJ | 3978 |
| 3721 | 3014 | | CEI7 | LDD | CM+4 | VALIDATE CHECKSUM | 1AJ | 3979 |
| 3722 | 0503 | | | ZJP | RIP | IF CHECKSUM GOOD | 1AJ | 3980 |
| 3725 | 2000 | 5757 | | LDC | =C* REPRIEVE | CHECKSUM BAD.* | 1AJ | 3981 |
| 3727 | 0200 | 0423 | CEI8 | RJM | DFM | ISSUE ERROR MESSAGE | 1AJ | 3982 |
| 3731 | 0100 | 3522 | CEI9 | LJM | CEI10 | EXIT | 1AJ | 3983 |
| | | | | | | | | |
| | | | ** | | DTC - PROCESS DISABLED | TERMINAL CONTROL. | 1AJ | 3985 |
| | | | * | | | | 1AJ | 3986 |
| | | | * | | PROCESSES ERROR RECOVERY FOR USER | BREAKS ONE AND TWO FOR TERMINALS WITH | 1AJ | 3987 |
| | | | * | | | TERMINAL CONTROL DISABLED. | 1AJ | 3988 |
| | | | * | | | | 1AJ | 3989 |
| | | | * | | EXIT TO *STC* TO RESTART JOB IF | DISABLED TERMINAL CONTROL PROCESSED. | 1AJ | 3990 |
| | | | * | | | | 1AJ | 3991 |
| | | | * | | | RETURNS TO CALLER IF DISABLED TERMINAL | 1AJ | 3992 |
| | | | * | | | CONTROL PROCESSED. | 1AJ | 3993 |
| | | | * | | | NOT PROCESSED. | 1AJ | 3994 |
| | | | * | | USES T1 - T3, CM - CM+4, CW - CW+4. | | 1AJ | 3995 |
| | | | * | | | | 1AJ | 3996 |
| | | | * | | CALL CJS,VCA. | | 1AJ | 3997 |
| | | | | | | | 1AJ | 3998 |
| | | | | | | | 1AJ | 3999 |
| 3733 | 0100 | 3733 | DTC | SUBR | | ENTRY/EXIT | 1AJ | 4000 |
| 3735 | 0200 | 2413 | | RJM | CJS | CHECK JOB STATUS | 1AJ | 4001 |
| 3737 | 0473 | | | ZJN | DTCX | IF JOB STEP COMPLETE | 1AJ | 4002 |
| 3740 | 3074 | | | LDD | CP | READ TERMINAL INTERRUPT POINTER | 1AJ | 4003 |
| 3741 | 1666 | | | ADK | TIAW | | 1AJ | 4004 |
| 3742 | 6060 | | | CRD | CW | | 1AJ | 4005 |
| 3743 | 1603 | | | ADK | EECW-TIAW | | 1AJ | 4006 |
| 3744 | 6010 | | | CRD | CM | CHECK FOR EXTENDED REPRIEVE | 1AJ | 4007 |
| 3745 | 3010 | | | LDD | CM | | 1AJ | 4008 |
| 3746 | 1007 | | | SHN | 21-12 | | 1AJ | 4009 |
| 3747 | 0763 | | | MJN | DTCX | IF EXTENDED REPRIEVE SET | 1AJ | 4010 |
| 3750 | 3063 | | | LDD | CW+3 | SET INTERRUPT ADDRESS | 1AJ | 4011 |
| 3751 | 1377 | | | SCN | 77 | | 1AJ | 4012 |
| 3752 | 1006 | | | SHN | 6 | | 1AJ | 4013 |
| 3753 | 3362 | | | LMD | CW+2 | | 1AJ | 4014 |
| 3754 | 1006 | | | SHN | 6 | | 1AJ | 4015 |

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| 3755 | 0455 | | ZJN | DTCX | IF TERMINAL CONTROL NOT DISABLED | 1AJ | 4016 |
| 3756 | 0716 | | MJN | DTC1 | IF EXCHANGE PACKAGE ADDRESS | 1AJ | 4017 |
| | | | | | | 1AJ | 4018 |
| | | | * | | SET INTERRUPT FLAG. | 1AJ | 4019 |
| | | | | | | 1AJ | 4020 |
| 3757 | 0200 | 5422 | RJM | VCA | VALIDATE CENTRAL ADDRESS | 1AJ | 4021 |
| 3761 | 0451 | | ZJN | DTCX | IF ADDRESS INCORRECT | V23L617 | 163 |
| 3762 | 1466 | | LDN | ZERL | READ ZERO WORD | 1AJ | 4023 |
| 3763 | 6010 | | CRD | CM | | 1AJ | 4024 |
| 3764 | 3046 | | LDD | EF | SET ERROR FLAG IN INTERRUPT WORD | 1AJ | 4025 |
| 3765 | 3414 | | STD | CM+4 | | 1AJ | 4026 |
| 3766 | 3001 | | LDD | T1 | REWRITE INTERRUPT FLAG WORD | 1AJ | 4027 |
| 3767 | 1014 | | SHN | 14 | | 1AJ | 4028 |
| 3770 | 3102 | | ADD | T2 | | 1AJ | 4029 |
| 3771 | 6210 | | CWD | CM | | 1AJ | 4030 |
| 3772 | 0100 | 4033 | LJM | DTC4 | RESTART JOB | 1AJ | 4031 |
| | | | | | | 1AJ | 4032 |
| | | | * | | VALIDATE EXCHANGE PACKAGE POINTERS. | 1AJ | 4033 |
| | | | | | | 1AJ | 4034 |
| 3774 | 2237 | 7777 | DTC1 | LPC | 377777 CLEAR EXCHANGE PACKAGE FLAG BIT | 1AJ | 4035 |
| 3776 | 0200 | 5422 | RJM | VCA | VALIDATE CM ADDRESS | 1AJ | 4036 |
| 4000 | 0406 | | ZJN | DTC2 | IF ADDRESS INCORRECT | V23L617 | 164 |
| 4001 | 1617 | | ADN | 17 | CHECK EXCHANGE PACKAGE LENGTH | 1AJ | 4038 |
| 4002 | 1071 | | SHN | -6 | | 1AJ | 4039 |
| 4003 | 3255 | | SBD | RA | | 1AJ | 4040 |
| 4004 | 3256 | | SBD | FL | | 1AJ | 4041 |
| 4005 | 0703 | | MJN | DTC3 | IF ADDRESS WITHIN FL | 1AJ | 4042 |
| 4006 | 0100 | 3733 | DTC2 | LJM | DTCX RETURN | 1AJ | 4043 |
| | | | | | | 1AJ | 4044 |
| | | | * | | STORE EXCHANGE PACKAGE IN USER FL. | 1AJ | 4045 |
| | | | | | | 1AJ | 4046 |
| 4010 | 1420 | | DTC3 | LDN | 20 SET EXCHANGE PACKAGE LENGTH | 1AJ | 4047 |
| 4011 | 3403 | | STD | T3 | | 1AJ | 4048 |
| 4012 | 3074 | | LDD | CP | READ EXCHANGE PACKAGE | 1AJ | 4049 |
| 4013 | 6010 | | CRD | CM | | 1AJ | 4050 |
| 4014 | 6103 | 6053 | CRM | EXPA,T3 | | 1AJ | 4051 |
| 4016 | 3001 | | LDD | T1 | WRITE EXCHANGE PACKAGE TO CM | 1AJ | 4052 |
| 4017 | 1014 | | SHN | 14 | | 1AJ | 4053 |
| 4020 | 3302 | | LMD | T2 | | 1AJ | 4054 |
| 4021 | 6303 | 6053 | CWM | EXPA,T3 | | 1AJ | 4055 |
| | | | | | | 1AJ | 4056 |
| | | | * | | RESTART CPU AT NEW EXECUTION ADDRESS. | 1AJ | 4057 |
| | | | | | | 1AJ | 4058 |
| 4023 | 1014 | | SHN | 22-6 | SET P-ADDRESS TO END OF EXCHANGE PACKAGE | 1AJ | 4059 |
| 4024 | 3255 | | SBD | RA | | 1AJ | 4060 |
| 4025 | 1006 | | SHN | 6 | | 1AJ | 4061 |
| 4026 | 3411 | | STD | CM+1 | | 1AJ | 4062 |
| 4027 | 1063 | | SHN | -14 | | 1AJ | 4063 |
| 4030 | 3410 | | STD | CM | | 1AJ | 4064 |
| 4031 | 3074 | | LDD | CP | REWRITE JOB P-REGISTER | 1AJ | 4065 |
| 4032 | 6210 | | CWD | CM | | 1AJ | 4066 |
| 4033 | 3074 | | DTC4 | LDD | CP CLEAR *SKIP TO EXIT* FLAG | 1AJ | 4067 |
| 4034 | 1674 | | ADK | CSSW | | 1AJ | 4068 |
| 4035 | 6010 | | CRD | CM | | 1AJ | 4069 |
| 4036 | 3010 | | LDD | CM | | 1AJ | 4070 |
| 4037 | 2200 | 5777 | LPC | 5777 | | 1AJ | 4071 |
| 4041 | 3410 | | STD | CM | | 1AJ | 4072 |

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| 4042 | 3074 | | LDD | CP | | 1AJ | 4073 | |
| 4043 | 1674 | | ADK | CSSW | | 1AJ | 4074 | |
| 4044 | 6210 | | CWD | CM | | 1AJ | 4075 | |
| 4045 | 0100 | 4274 | LJM | STC | RESTART CPU | 1AJ | 4076 | |
| | | | ** | | RIP - RETURN INTERRUPT PARAMETERS. | 1AJ | 4078 | |
| | | | * | | | 1AJ | 4079 | |
| | | | * | | ENTRY (CW - CW+4) = ERROR EXIT CONTROL WORD. | 1AJ | 4080 | |
| | | | * | | (CN+3 - CN+4) = TRANSFER ADDRESS. | 1AJ | 4081 | |
| | | | * | | (FS - FS+4) = WORD /COMSRPV/ERCD OF REPRIEVE BLOCK. | 1AJ | 4082 | |
| | | | * | | (AB - AB+4) = WORD /COMSRPV/OSEF OF REPRIEVE BLOCK. | 1AJ | 4083 | |
| | | | * | | | 1AJ | 4084 | |
| | | | * | | EXIT TO *SRE*. | NS2724 | 1 | |
| | | | * | | PARAMETERS SET IN REPRIEVE BLOCK. | NS2724 | 2 | |
| | | | * | | | 1AJ | 4087 | |
| | | | * | | USES AB+4, CN, CW, CM - CM+4, FS+2 - FS+4, T1 - T5. | NS2724 | 3 | |
| | | | | | | 1AJ | 4089 | |
| | | | | | | 1AJ | 4090 | |
| 4047 | | | RIP | BSS | 0 | ENTRY | 1AJ | 4091 |
| 4047 | 1420 | | LDN | | /COMSRPV/EXPL | SET EXCHANGE PACKAGE LENGTH | 1AJ | 4092 |
| 4050 | 3425 | | STD | CN | | | 1AJ | 4093 |
| 4051 | 3074 | | LDD | CP | READ (P) | | 1AJ | 4094 |
| 4052 | 6001 | | CRD | T1 | | | 1AJ | 4095 |
| 4053 | 6125 | 6053 | CRM | EXPA,CN | READ EXCHANGE PACKAGE | | 1AJ | 4096 |
| 4055 | 3030 | | LDD | CN+3 | SET (P) TO TRANSFER ADDRESS | | 1AJ | 4099 |
| 4056 | 3401 | | STD | T1 | | | 1AJ | 4100 |
| 4057 | 3031 | | LDD | CN+4 | | | 1AJ | 4101 |
| 4060 | 3402 | | STD | T1+1 | | | 1AJ | 4102 |
| 4061 | 3046 | | LDD | EF | | | NS2724 | 4 |
| 4062 | 3436 | | STD | AB+4 | SET ERROR IN PARAMETER BLOCK | | 1AJ | 4105 |
| 4063 | 3074 | | LDD | CP | WRITE (P) TO EXCHANGE PACKAGE | | 1AJ | 4106 |
| 4064 | 6201 | | CWD | T1 | | | 1AJ | 4107 |
| 4065 | 5046 | 4320 | LDM | TROF,EF | SET ERROR TYPE FOR INTERRUPT PROCESSOR | | 1AJ | 4110 |
| 4067 | 3423 | | STD | FS+3 | | | 1AJ | 4111 |
| 4070 | 1400 | | LDN | 0 | | | 1AJ | 4112 |
| 4071 | 3422 | | STD | FS+2 | | | 1AJ | 4113 |
| 4072 | 5046 | 4367 | LDM | TCEC,EF | SET COMMON ERROR CODE | | 1AJ | 4114 |
| 4074 | 3424 | | STD | FS+4 | | | 1AJ | 4115 |
| 4075 | 1466 | | LDN | ZERL | | | 1AJ | 4116 |
| 4076 | 6001 | | CRD | T1 | | | 1AJ | 4117 |
| 4077 | 3055 | | LDD | RA | READ SYSTEM REQUEST | | V23L617 | 165 |
| 4100 | 1006 | | SHN | 6 | | | 1AJ | 4119 |
| 4101 | 1601 | | ADN | 1 | | | 1AJ | 4120 |
| 4102 | 6010 | | CRD | CM | | | 1AJ | 4121 |
| 4103 | 6201 | | CWD | T1 | CLEAR SYSTEM REQUEST | | V23L617 | 166 |
| | | | | | | | 1AJ | 4123 |
| | | | * | | IF *1RI* DETECTED A USER BREAK ON A JOB WITH EXTENDED | | 1AJ | 4124 |
| | | | * | | REPRIEVE, THE TERMINAL INPUT POINTER WILL NOT BE CLEARED, | | 1AJ | 4125 |
| | | | * | | ALLOWING *3AB* TO RECONSTRUCT THE PENDING INPUT REQUEST | | 1AJ | 4126 |
| | | | * | | (IF ANY) AND PLACE IT IN THE REPRIEVE BLOCK. | | 1AJ | 4127 |
| | | | | | | | 1AJ | 4128 |
| 4104 | 2000 | 0000 | LDC | ** | CHECK FOR INPUT PENDING ON USER BREAK | | 1AJ | 4129 |
| | | | EQU | *-1 | (INPUT FET ADDRESS) | | 1AJ | 4130 |
| 4106 | 0433 | | ZJN | RIP2 | IF NO TERMINAL INPUT OR NOT USER BREAK | | 1AJ | 4131 |

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| 4107 | 3405 | | STD | T1+4 | STORE FET ADDRESS IN *CIO* CALL | 1AJ | 4132 | |
| 4110 | 1063 | | SHN | -14 | | 1AJ | 4133 | |
| 4111 | 3404 | | STD | T1+3 | | 1AJ | 4134 | |
| 4112 | 2000 | 0311 | LDC | 2RCI | BUILD *CIO* CALL | 1AJ | 4135 | |
| 4114 | 3401 | | STD | T1 | | 1AJ | 4136 | |
| 4115 | 2000 | 1720 | LDC | 2ROP | | 1AJ | 4137 | |
| 4117 | 3402 | | STD | T1+1 | | 1AJ | 4138 | |
| | | | | | | 1AJ | 4139 | |
| | | | * | | CHECK FOR JOB IN RECALL WAITING FOR INPUT FET COMPLETION. | 1AJ | 4140 | |
| | | | | | | 1AJ | 4141 | |
| 4120 | 3010 | | LDD | CM | | 1AJ | 4142 | |
| 4121 | 2300 | 2203 | LMC | 2RRC | | 1AJ | 4143 | |
| 4123 | 0516 | | NJN | RIP2 | IF NOT *RCL* CALL IN RA+1 | 1AJ | 4144 | |
| 4124 | 3011 | | LDD | CM+1 | | 1AJ | 4145 | |
| 4125 | 2300 | 1420 | LMC | 2RLP | | 1AJ | 4146 | |
| 4127 | 0512 | | NJN | RIP2 | IF NOT *RCL* CALL IN RA+1 | 1AJ | 4147 | |
| 4130 | 3013 | | LDD | CM+3 | | 1AJ | 4148 | |
| 4131 | 1237 | | LPN | 37 | | 1AJ | 4149 | |
| 4132 | 3304 | | LMD | T1+3 | | 1AJ | 4150 | |
| 4133 | 0506 | | NJN | RIP2 | IF NOT WAITING FOR INPUT FET | 1AJ | 4151 | |
| 4134 | 3014 | | LDD | CM+4 | | 1AJ | 4152 | |
| 4135 | 3305 | | LMD | T1+4 | | 1AJ | 4153 | |
| 4136 | 0503 | | NJN | RIP2 | IF NOT WAITING FOR INPUT FET | 1AJ | 4154 | |
| 4137 | 1466 | | LDN | ZERL | CLEAR RA+1 IMAGE | 1AJ | 4155 | |
| 4140 | 6010 | | CRD | CM | | 1AJ | 4156 | |
| 4141 | 3063 | | RIP2 | LDD | CW+3 | WRITE PARAMETERS TO REPRIEVE BLOCK | 1AJ | 4157 |
| 4142 | 1237 | | LPN | 37 | | 1AJ | 4158 | |
| 4143 | 1006 | | SHN | 6 | | 1AJ | 4159 | |
| 4144 | 3155 | | ADD | RA | | 1AJ | 4160 | |
| 4145 | 1006 | | SHN | 6 | | 1AJ | 4161 | |
| 4146 | 3164 | | ADD | CW+4 | | 1AJ | 4162 | |
| 4147 | 1603 | | ADN | /COMSRPV/ERCD | WRITE COMMON ERROR CODE | 1AJ | 4163 | |
| 4150 | 6220 | | CWD | FS | | 1AJ | 4164 | |
| 4151 | 1602 | | ADN | /COMSRPV/PRAR-/COMSRPV/ERCD | WRITE RA+1 CONTENTS | 1AJ | 4165 | |
| 4152 | 6210 | | CWD | CM | | 1AJ | 4166 | |
| 4153 | 1601 | | ADN | /COMSRPV/ITIO-/COMSRPV/PRAR | SET/CLEAR TERMINAL INPUT | 1AJ | 4167 | |
| 4154 | 6201 | | CWD | T1 | | 1AJ | 4168 | |
| 4155 | 1601 | | ADN | /COMSRPV/OSEF-/COMSRPV/ITIO | WRITE SYSTEM ERROR FLAG | 1AJ | 4169 | |
| 4156 | 6232 | | CWD | AB | | 1AJ | 4170 | |
| 4157 | 1602 | | ADN | /COMSRPV/RPPL-/COMSRPV/OSEF | WRITE EXCHANGE PACKAGE | 1AJ | 4171 | |
| 4160 | 6325 | 6053 | CWM | EXPA,CN | | 1AJ | 4172 | |
| 4162 | 3072 | | LDD | TH | SET INTERRUPT PROCESSING ACTIVE | 1AJ | 4173 | |
| 4163 | 3560 | | RAD | CW | | 1AJ | 4174 | |
| 4164 | 0100 | 4234 | LJM | SRE | SET REPRIEVED ERROR | NS2724 | 5 | |

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| | ** | SRE - SET REPRIEVED ERROR FOR POSSIBLE *RESET* CALL. | | | NS2724 | 11 |
| | * | | | | NS2724 | 12 |
| | * | EXIT TO *RIJ*. | | | NS2724 | 13 |
| | * | REPRIEVED ERROR UPDATED IF NECESSARY. | | | NS2724 | 14 |
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| | * | USES CM - CM+4. | | | NS2724 | 16 |
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| 4234 | | SRE | BSS | 0 | ENTRY | NS2724 |
| 4234 | 3074 | | LDD | CP | READ REPRIEVED ERROR | NS2724 |
| 4235 | 1666 | | ADN | TIAW | | NS2724 |
| 4236 | 6010 | | CRD | CM | | NS2724 |
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| 4240 | 3212 | | SBD | CM+2 | | NS2724 |
| 4241 | 0705 | | MJN | RIJ | IF OLD ERROR .GT. NEW | NS2724 |
| 4242 | 3512 | | RAD | CM+2 | SET REPRIEVED ERROR | NS2724 |
| 4243 | 3074 | | LDD | CP | WRITE REPRIEVED ERROR | NS2724 |
| 4244 | 1666 | | ADN | TIAW | | NS2724 |
| 4245 | 6210 | | CWD | CM | | 1AJ 4222 |
| | * | UJN | RIJ | | RESTART INTERRUPTED JOB | 1AJ 4223 |
| | ** | RIJ - RESTART INTERRUPTED JOB. | | | 1AJ | 4225 |
| | * | | | | 1AJ | 4226 |
| | * | ENTRY (CW - CW+4) = ERROR EXIT CONTROL WORD. | | | 1AJ | 4227 |
| | * | | | | 1AJ | 4228 |
| | * | EXIT TO *STC* TO STARTUP CPU. | | | 1AJ | 4229 |
| | * | | | | 1AJ | 4230 |
| | * | USES CM - CM+4, CN - CN+4. | | | 1AJ | 4231 |
| | * | | | | 1AJ | 4232 |
| | * | CALLS CPD, ITL. | | | 1AJ | 4233 |
| | | | | | 1AJ | 4234 |
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| 4246 | | RIJ | BSS | 0 | ENTRY | 1AJ 4236 |
| 4246 | 3074 | | LDD | CP | REWRITE ERROR/EXIT CONTROL WORD | 1AJ 4237 |
| 4247 | 1671 | | ADN | EECW | | 1AJ 4238 |
| 4250 | 6260 | | CWD | CW | | 1AJ 4239 |
| 4251 | 3046 | | LDD | EF | CHECK ERROR FLAG | 1AJ 4240 |
| 4252 | 1115 | | LMN | TLET | | 1AJ 4241 |
| 4253 | 0505 | | NJN | RIJ1 | IF NOT TIME LIMIT | 1AJ 4242 |
| 4254 | 1410 | | LDN | DTLI | SET INCREMENT | 1AJ 4243 |
| 4255 | 3414 | | STD | CM+4 | | 1AJ 4244 |
| 4256 | 1401 | | LDN | RLIT | | 1AJ 4245 |
| 4257 | 0306 | | UJN | RIJ2 | INCREASE TIME LIMIT | 1AJ 4246 |
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| 4260 | 1135 | RIJ1 | LMN | SRET&TLET | | 1AJ 4248 |
| 4261 | 0507 | | NJN | RIJ3 | IF NOT SRU LIMIT | 1AJ 4249 |
| 4262 | 1410 | | LDN | DSLI | SET INCREMENT | 1AJ 4250 |
| 4263 | 3414 | | STD | CM+4 | | 1AJ 4251 |
| 4264 | 1406 | | LDN | RLIA | | 1AJ 4252 |
| 4265 | 0200 5164 | RIJ2 | RJM | ITL | INCREASE LIMIT | 1AJ 4253 |
| 4267 | 0305 | | UJN | STC | START UP CPU | 1AJ23 32 |
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| L | 27 | 0006 | INDEX | STET,/COMSRPV/ODEC | SUSPENSION TIMEOUT |
| L | 43 | 0007 | INDEX | SYET,/COMSRPV/OKEC | OPERATOR KILL |
| L | 2 | 0040 | INDEX | TAET,/COMSRPV/TIEC | USER BREAK TWO |
| L | 1 | 0040 | INDEX | TIET,/COMSRPV/TIEC | USER BREAK ONE |
| L | 17 | 0017 | INDEX | TKET,/COMSRPV/MLEC | MASS STORAGE LIMIT |
| L | 15 | 0001 | INDEX | TLET,/COMSRPV/TLEC | TIME LIMIT |

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| | ** | | | | CCO - CALL CIO TO DUMP FET. | | 1AJ | 4370 | |
| | * | | | | | | 1AJ | 4371 | |
| | * | | | | A *WRITER* WILL BE ISSUED TO FLUSH A BUFFER UNLESS | | 1AJ | 4372 | |
| 1 | * | | | | THE LAST OPERATION WAS A 204 OR 264 WRITE, IN WHICH | | 1AJ | 4373 | |
| 2 | * | | | | CASE THAT WRITE FUNCTION WILL BE REISSUED. | | 1AJ | 4374 | |
| 3 | * | | | | | | 1AJ | 4375 | |
| 4 | * | | | | ENTRY (CM+3 - CM+4) = FET ADDRESS. | | 1AJ | 4376 | |
| 5 | * | | | | (CN - CN+4) = FIRST WORD OF FET. | | 1AJ | 4377 | |
| 6 | * | | | | (T1) = LIST OF FILES INDEX. | | 1AJ | 4378 | |
| 7 | * | | | | AT *CC02* IF *CIO* IN PROGRESS. | | 1AJ | 4379 | |
| 8 | * | | | | | | 1AJ | 4380 | |
| 9 | * | | | | EXIT TO *PPR* IF RECALL STACK FULL. | | 1AJ | 4381 | |
| 10 | * | | | | | | 1AJ | 4382 | |
| 11 | * | | | | USES CM - CM+4, CW - CW+4. | | 1AJ | 4383 | |
| 12 | * | | | | | | 1AJ | 4384 | |
| 13 | * | | | | MACROS LDA, MONITOR. | | 1AJ | 4385 | |
| 14 | | | | | | | 1AJ | 4386 | |
| 15 | | | | | | | 1AJ | 4387 | |
| 16 | | 4436 | 0100 | 4436 | CCO | SUBR | ENTRY/EXIT | 1AJ | 4388 |
| 17 | | 4440 | 5600 | 4545 | | AOM CCOA | FLAG *CIO* CALLED | 1AJ | 4389 |
| 18 | | 4442 | 3074 | | | LDD CP | UPDATE LIST OF FILES INDEX | 1AJ | 4390 |
| 19 | | 4443 | 2100 | 0121 | | ADC LOFW | | 1AJ | 4391 |
| 20 | | 4445 | 3400 | | | STD T0 | | 1AJ | 4392 |
| 21 | | 4446 | 6060 | | | CRD CW | | 1AJ | 4393 |
| 22 | | 4447 | 3001 | | | LDD T1 | | 1AJ | 4394 |
| 23 | | 4450 | 3460 | | | STD CW | | 1AJ | 4395 |
| 24 | | 4451 | 3000 | | | LDD T0 | | 1AJ | 4396 |
| 25 | | 4452 | 6260 | | | CWD CW | | 1AJ | 4397 |
| 26 | | 4453 | 2017 | 0311 | | LDC 3ROCI | SET *CIO* CALL | 1AJ | 4398 |
| 27 | | 4455 | 3410 | | | STD CM | | 1AJ | 4399 |
| 28 | | 4456 | 1071 | | | SHN -6 | | 1AJ | 4400 |
| 29 | | 4457 | 1377 | | | SCN 77 | | 1AJ | 4401 |
| 30 | | 4460 | 3411 | | | STD CM+1 | | 1AJ | 4402 |
| 31 | | 4461 | 1400 | | | LDN 0 | | 1AJ | 4403 |
| 32 | | 4462 | 3412 | | | STD CM+2 | | 1AJ | 4404 |
| 33 | | 4463 | 3077 | | | LDD MA | | 1AJ | 4405 |
| 34 | | 4464 | 6210 | | | CWD CM | | 1AJ | 4406 |
| 35 | | 4465 | 3031 | | | LDD CN+4 | CHECK FOR CONTROL WORD WRITE | 1AJ | 4407 |
| 36 | | 4466 | 2200 | 0776 | | LPC 776 | | 1AJ | 4408 |
| 37 | | 4470 | 3431 | | | STD CN+4 | | 1AJ | 4409 |
| 38 | | 4471 | 1074 | | | SHN -3 | | 1AJ | 4410 |
| 39 | | 4472 | 1120 | | | LMN 204/10 | | 1AJ | 4411 |
| 40 | | 4473 | 0407 | | | ZJN CC01 | IF 204 WRITE | 1AJ | 4412 |
| 41 | | 4474 | 1106 | | | LMN 264/10&204/10 | | 1AJ | 4413 |
| 42 | | 4475 | 0405 | | | ZJN CC01 | IF 264 WRITE | 1AJ | 4414 |
| 43 | | 4476 | 3031 | | | LDD CN+4 | SET EOR REQUEST | 1AJ | 4415 |
| 44 | | 4477 | 1202 | | | LPN 2 | | 1AJ | 4416 |
| 45 | | 4500 | 1124 | | | LMN 24 | | 1AJ | 4417 |
| 46 | | 4501 | 3431 | | | STD CN+4 | | 1AJ | 4418 |
| 47 | | 4502 | 3030 | | CC01 | LDD CN+3 | CLEAR LEVEL NUMBER AND ERROR STATUS | 1AJ | 4419 |
| 48 | | 4503 | 1377 | | | SCN 77 | | 1AJ | 4420 |
| 49 | | 4504 | 3430 | | | STD CN+3 | | 1AJ | 4421 |
| 50 | | 4505 | 3013 | | | LDA CM+3 | STORE FET STATUS | 1AJ | 4422 |
| 51 | | 4512 | 6225 | | | CWD CN | | 1AJ | 4423 |
| 52 | | 4513 | 1466 | | | LDN ZERL | | 1AJ | 4424 |
| 53 | | 4514 | 6010 | | | CRD CM | | 1AJ | 4425 |
| 54 | | 4515 | 3077 | | | LDD MA | | 1AJ | 4426 |

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| 4516 | 1601 | | ADN | 1 | | 1AJ | 4427 |
| 4517 | 6210 | | CWD | CM | | 1AJ | 4428 |
| 4520 | 2000 | 0100 | MONITOR | RPPM | REQUEST *CIO* | 1AJ | 4429 |
| 4524 | 3011 | | LDD | CM+1 | | 1AJ | 4430 |
| 4525 | 0403 | | ZJN | CC02 | IF REQUEST NOT PROCESSED | 1AJ | 4431 |
| 4526 | 0100 | 4436 | LJM | CCOX | RETURN | 1AJ | 4432 |
| | | | | | | 1AJ | 4433 |
| | | | * | | RECALL STACK FULL, DROP PP. | 1AJ | 4434 |
| | | | | | | 1AJ | 4435 |
| 4530 | 3046 | | CC02 | LDD | EF | 1AJ | 4436 |
| 4531 | 0405 | | ZJN | CC03 | CHECK ERROR FLAG | 1AJ | 4437 |
| 4532 | 3411 | | STD | CM+1 | IF NO ERROR FLAG | 1AJ | 4438 |
| 4533 | 1454 | | MONITOR | CEFM | RESET ERROR FLAG | 1AJ | 4439 |
| 4536 | 1402 | | CC03 | LDN | DPPS | 1AJ | 4440 |
| 4537 | 3411 | | STD | CM+1 | CLEAR JOB ADVANCE AND DROP PP | 1AJ | 4441 |
| 4540 | 1463 | | MONITOR | JACM | | 1AJ | 4442 |
| 4543 | 0100 | 0257 | LJM | PPR | EXIT TO PP RESIDENT | 1AJ | 4443 |
| | | | | | | 1AJ | 4444 |
| 4545 | 0000 | | CCOA | CON | 0 | 1AJ | 4445 |
| | | | | | *CIO* CALLED FLAG | 1AJ | 4446 |
| | | | | | | | |
| | | | ** | | CFP - CHECK FET PARAMETERS. | 1AJ | 4518 |
| | | | * | | | 1AJ | 4519 |
| | | | * | | ENTRY (CM+3 - CM+4) = FET ADDRESS. | 1AJ | 4520 |
| | | | * | | | 1AJ | 4521 |
| | | | * | | EXIT (A) = 0, BUFFER PARAMETERS ARE VALID, FET IS WITHIN FL | 1AJ | 4522 |
| | | | * | | AND CONTAINS DATA. | 1AJ | 4523 |
| | | | * | | (CW+1) = FLUSH BIT. | 1AJ | 4524 |
| | | | * | | (CN - CN+4) = FIRST WORD OF FET. | 1AJ | 4525 |
| | | | * | | (CW+3 - CW+4) = FIRST. | 1AJ | 4526 |
| | | | * | | (FS+3 - FS+4) = IN. | 1AJ | 4527 |
| | | | * | | (AB+3 - AB+4) = OUT. | 1AJ | 4528 |
| | | | * | | (T6 - T7) = LIMIT. | 1AJ | 4529 |
| | | | * | | | 1AJ | 4530 |
| | | | * | | USES T3 - T7, AB - AB+4, CN - CN+4, CW - CW+4, FS - FS+4. | 1AJ | 4531 |
| | | | | | | 1AJ | 4532 |
| 4546 | 1401 | | CFP3 | LDN | 1 | 1AJ | 4533 |
| | | | | | | 1AJ | 4534 |
| | | | | | | 1AJ | 4535 |
| 4547 | 0100 | 4547 | CFP | SUBR | | 1AJ | 4536 |
| 4551 | 3013 | | LDD | CM+3 | ENTRY/EXIT | 1AJ | 4537 |
| 4552 | 1237 | | LPN | 37 | CHECK 5 WORD FET WITHIN RANGE | 1AJ | 4538 |
| 4553 | 3413 | | STD | CM+3 | | 1AJ | 4539 |
| 4554 | 1014 | | SHN | 14 | | 1AJ | 4540 |
| 4555 | 3114 | | ADD | CM+4 | | 1AJ | 4541 |
| 4556 | 1702 | | SBN | 2 | | 1AJ | 4542 |
| 4557 | 0766 | | MJN | CFP3 | IF FET ADDRESS .LE. 1 | 1AJ | 4543 |
| 4560 | 1607 | | ADN | 2+5 | | 1AJ | 4544 |
| 4561 | 1071 | | SHN | -6 | | 1AJ | 4545 |
| 4562 | 3256 | | SBD | FL | | 1AJ | 4546 |
| 4563 | 0662 | | PJN | CFP3 | IF FET OUT OF RANGE | 1AJ | 4547 |
| 4564 | 3013 | | LDA | CM+3 | READ FET PARAMETERS | 1AJ | 4548 |
| 4571 | 6025 | | CRD | CN | | 1AJ | 4549 |
| 4572 | 1601 | | ADN | 1 | | 1AJ | 4550 |

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| 4573 | 6060 | CRD | CW | READ FIRST | 1AJ | 4551 |
| 4574 | 1601 | ADN | 1 | | 1AJ | 4552 |
| 4575 | 6020 | CRD | FS | READ IN | 1AJ | 4553 |
| 4576 | 1601 | ADN | 1 | | 1AJ | 4554 |
| 4577 | 6032 | CRD | AB | READ OUT | 1AJ | 4555 |
| 4600 | 1601 | ADN | 1 | | 1AJ | 4556 |
| 4601 | 6003 | CRD | T3 | READ LIMIT | 1AJ | 4557 |
| 4602 | 3063 | LDD | CW+3 | SET FET LENGTH | 1AJ | 4558 |
| 4603 | 1014 | SHN | 14 | | 1AJ | 4559 |
| 4604 | 3403 | STD | T3 | | 1AJ | 4560 |
| 4605 | 1063 | SHN | -14 | | 1AJ | 4561 |
| 4606 | 3463 | STD | CW+3 | | 1AJ | 4562 |
| 4607 | 3006 | LDD | T6 | CHECK LIMIT - FL | 1AJ | 4563 |
| 4610 | 1277 | LPN | 77 | | 1AJ | 4564 |
| 4611 | 3406 | STD | T6 | | 1AJ | 4565 |
| 4612 | 1014 | SHN | 14 | | 1AJ | 4566 |
| 4613 | 3107 | ADD | T7 | | 1AJ | 4567 |
| 4614 | 1701 | SBN | 1 | | 1AJ | 4568 |
| 4615 | 1071 | SHN | -6 | | 1AJ | 4569 |
| 4616 | 3256 | SBD | FL | | 1AJ | 4570 |
| 4617 | 0617 | PJN | CFP1 | IF LIMIT .GT. FL | 1AJ | 4571 |
| | | | | | 1AJ | 4572 |
| | | * | | CHECK OUT. | 1AJ | 4573 |
| | | | | | 1AJ | 4574 |
| 4620 | 3035 | LDD | AB+3 | OUT - LIMIT | 1AJ | 4575 |
| 4621 | 1277 | LPN | 77 | | 1AJ | 4576 |
| 4622 | 3435 | STD | AB+3 | | 1AJ | 4577 |
| 4623 | 3206 | SBD | T6 | | 1AJ | 4578 |
| 4624 | 1014 | SHN | 14 | | 1AJ | 4579 |
| 4625 | 3136 | ADD | AB+4 | | 1AJ | 4580 |
| 4626 | 3207 | SBD | T7 | | 1AJ | 4581 |
| 4627 | 0607 | PJN | CFP1 | IF OUT .GE. LIMIT | 1AJ | 4582 |
| 4630 | 3035 | LDD | AB+3 | OUT - FIRST | 1AJ | 4583 |
| 4631 | 3263 | SBD | CW+3 | | 1AJ | 4584 |
| 4632 | 1014 | SHN | 14 | | 1AJ | 4585 |
| 4633 | 3136 | ADD | AB+4 | | 1AJ | 4586 |
| 4634 | 3264 | SBD | CW+4 | | 1AJ | 4587 |
| 4635 | 0603 | PJN | CFP2 | IF OUT .GE. FIRST | 1AJ | 4588 |
| 4636 | 0100 4546 | CFP1 | LJM | CFP3 | 1AJ | 4589 |
| | | | | | 1AJ | 4590 |
| | | * | | CHECK IN. | 1AJ | 4591 |
| | | | | | 1AJ | 4592 |
| 4640 | 3023 | CFP2 | LDD | FS+3 | 1AJ | 4593 |
| 4641 | 1277 | | LPN | 77 | 1AJ | 4594 |
| 4642 | 3423 | | STD | FS+3 | 1AJ | 4595 |
| 4643 | 3206 | | SBD | T6 | 1AJ | 4596 |
| 4644 | 1014 | | SHN | 14 | 1AJ | 4597 |
| 4645 | 3124 | | ADD | FS+4 | 1AJ | 4598 |
| 4646 | 3207 | | SBD | T7 | 1AJ | 4599 |
| 4647 | 0666 | | PJN | CFP1 | 1AJ | 4600 |
| 4650 | 3023 | | LDD | FS+3 | 1AJ | 4601 |
| 4651 | 3263 | | SBD | CW+3 | 1AJ | 4602 |
| 4652 | 1014 | | SHN | 14 | 1AJ | 4603 |
| 4653 | 3124 | | ADD | FS+4 | 1AJ | 4604 |
| 4654 | 3264 | | SBD | CW+4 | 1AJ | 4605 |
| 4655 | 0760 | | MJN | CFP1 | 1AJ | 4606 |
| 4656 | 3013 | | LDD | CM+3 | 1AJ | 4607 |
| | | | | IF IN .LT. FIRST | | |
| | | | | CHECK FET IN RANGE | | |

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| 4657 | 1014 | | SHN | 14 | | 1AJ | 4608 |
| 4660 | 3114 | | ADD | CM+4 | | 1AJ | 4609 |
| 4661 | 3103 | | ADD | T3 | FET LENGTH | 1AJ | 4610 |
| 4662 | 1605 | | ADN | 5 | | 1AJ | 4611 |
| 4663 | 1071 | | SHN | -6 | | 1AJ | 4612 |
| 4664 | 3256 | | SBD | FL | | 1AJ | 4613 |
| 4665 | 0650 | | PJN | CFP1 | IF FET EXTENDS BEYOND FL | 1AJ | 4614 |
| 4666 | 3023 | | LDD | FS+3 | CHECK FOR DATA IN FET | 1AJ | 4615 |
| 4667 | 3335 | | LMD | AB+3 | | 1AJ | 4616 |
| 4670 | 1014 | | SHN | 14 | | 1AJ | 4617 |
| 4671 | 3324 | | LMD | FS+4 | | 1AJ | 4618 |
| 4672 | 3336 | | LMD | AB+4 | | 1AJ | 4619 |
| 4673 | 0442 | | ZJN | CFP1 | IF FET CONTAINS NO DATA | 1AJ | 4620 |
| 4674 | 1400 | | LDN | 0 | | 1AJ | 4621 |
| 4675 | 0100 4547 | | LJM | CFPX | RETURN | 1AJ | 4622 |
| | | | | | | | |
| ** CFS - CHECK FET STATUS. | | | | | | | 1AJ 4624 |
| * ENTRY (CN - CN+4) = FIRST WORD OF FET. | | | | | | | 1AJ 4625 |
| * EXIT (A) = 0, IF FILE FLUSHABLE. | | | | | | | 1AJ 4626 |
| * .GT. 0, IF FILE NOT TO BE FLUSHED. | | | | | | | 1AJ 4627 |
| * .LT. 0, IF FILE FLUSHABLE, *OUTPUT*, | | | | | | | 1AJ 4628 |
| * AND NOT ON-LINE INTERACTIVE JOB. | | | | | | | 1AJ 4629 |
| | | | | | | | 1AJ 4630 |
| | | | | | | | 1AJ 4631 |
| | | | | | | | 1AJ 4632 |
| | | | | | | | 1AJ 4633 |
| 4677 | 0100 4677 | CFS | SUBR | ENTRY/EXIT | | 1AJ | 4634 |
| 4701 | 3030 | | LDD | CN+3 | CHECK FOR *CIO* ERRORS | 1AJ | 4635 |
| 4702 | 1203 | | LPN | 3 | | 1AJ | 4636 |
| 4703 | 1014 | | SHN | 14 | | 1AJ | 4637 |
| 4704 | 3331 | | LMD | CN+4 | | 1AJ | 4638 |
| 4705 | 1065 | | SHN | -10D | | 1AJ | 4639 |
| 4706 | 0570 | | NJN | CFSX | IF *CIO* ERRORS | 1AJ | 4640 |
| 4707 | 3031 | | LDD | CN+4 | CHECK FET STATUS | 1AJ | 4641 |
| 4710 | 1017 | | SHN | 21-2 | | 1AJ | 4642 |
| 4711 | 0707 | | MJN | CFS1 | IF WRITE BIT SET | 1AJ | 4643 |
| 4712 | 2200 0177 | | LPC | 177 | | 1AJ | 4644 |
| 4714 | 0404 | | ZJN | CFS1 | IF NO *CIO* CALLS | 1AJ | 4645 |
| 4715 | 1304 | | SCN | 4 | CHECK OPEN ALTER | 1AJ | 4646 |
| 4716 | 1112 | | LMN | 12 | | 1AJ | 4647 |
| 4717 | 0557 | | NJN | CFSX | IF NOT OPEN ALTER | 1AJ | 4648 |
| | | | | | | | 1AJ 4649 |
| * CHECK FILE = *OUTPUT* | | | | | | | 1AJ 4650 |
| | | | | | | | 1AJ 4651 |
| 4720 | 3025 | CFS1 | LDD | CN | FILE NAME | 1AJ | 4652 |
| 4721 | 2300 1725 | | LMC | 2ROU | | 1AJ | 4653 |
| 4723 | 0523 | | NJN | CFS3 | IF NOT *OU* | 1AJ | 4654 |
| 4724 | 3026 | | LDD | CN+1 | | 1AJ | 4655 |
| 4725 | 2300 2420 | | LMC | 2RTP | | 1AJ | 4656 |
| 4727 | 0517 | | NJN | CFS3 | IF NOT *TP* | 1AJ | 4657 |
| 4730 | 3027 | | LDD | CN+2 | | 1AJ | 4658 |
| 4731 | 2300 2524 | | LMC | 2RUT | | 1AJ | 4659 |
| 4733 | 0513 | | NJN | CFS3 | IF NOT *UT* | 1AJ | 4660 |
| 4734 | 3030 | | LDD | CN+3 | | 1AJ | 4661 |

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| 4735 | 1377 | | SCN | 77 | | 1AJ | 4662 |
| 4736 | 0510 | | NJN | CFS3 | IF FILE NOT *OUTPUT* | 1AJ | 4663 |
| 4737 | 5000 1217 | | LDM | TSTN | CHECK TERMINAL NUMBER | 1AJ | 4664 |
| 4741 | 0503 | | NJN | CFS2 | IF ON-LINE INTERACTIVE JOB | 1AJ | 4665 |
| 4742 | 1501 | | LCN | 1 | | 1AJ | 4666 |
| 4743 | 0304 | | UJN | CFS4 | RETURN | 1AJ | 4667 |
| | | | | | | 1AJ | 4668 |
| 4744 | 1401 | | CFS2 | LDN | 1 | 1AJ | 4669 |
| 4745 | 0302 | | UJN | CFS4 | RETURN | 1AJ | 4670 |
| | | | | | | 1AJ | 4671 |
| 4746 | 1400 | | CFS3 | LDN | 0 | 1AJ | 4672 |
| 4747 | 0100 4677 | | CFS4 | LJM | CFSX | 1AJ | 4673 |
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| | | | ** | CPD | - CLEAR PPU DUMP WORD. | 1AJ | 4675 |
| | | | * | | | 1AJ | 4676 |
| | | | * | EXIT | (PPDW) = ZERO. | 1AJ | 4677 |
| | | | * | | | 1AJ | 4678 |
| | | | * | USES | T1, CM - CM+4. | 1AJ | 4679 |
| | | | | | | 1AJ | 4680 |
| | | | | | | 1AJ | 4681 |
| 4751 | 0100 4751 | | CPD | SUBR | ENTRY/EXIT | 1AJ | 4682 |
| 4753 | 3074 | | LDD | CP | CLEAR PPU DUMP WORD | 1AJ | 4683 |
| 4754 | 2100 0115 | | ADC | PPDW | | 1AJ | 4684 |
| 4756 | 6010 | | CRD | CM | | 1AJ | 4685 |
| 4757 | 3401 | | STD | T1 | | 1AJ | 4686 |
| 4760 | 1400 | | LDN | 0 | | 1AJ | 4687 |
| 4761 | 3413 | | STD | CM+3 | | 1AJ | 4688 |
| 4762 | 3414 | | STD | CM+4 | | 1AJ | 4689 |
| 4763 | 3001 | | LDD | T1 | | 1AJ | 4690 |
| 4764 | 6210 | | CWD | CM | | 1AJ | 4691 |
| 4765 | 0363 | | UJN | CPDX | RETURN | 1AJ | 4692 |
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| 4770 | 0200 5130 | | RJM | ESB | EMPTY COMMAND BUFFER | NS2323 | 144 |
| 4772 | 1400 | | LDN | TJJT | SELECT *TERMINATE JOB* OPTION | NS2323 | 145 |
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| 4775 | 5000 1217 | | LDM | TSTN | CHECK TERMINAL NUMBER | NS2323 | 147 |
| 4777 | 0466 | | ZJN | CJAX | IF NOT ON-LINE INTERACTIVE JOB | NS2323 | 148 |
| 5000 | 1466 | | LDN | ZERL | CLEAR ZERO WORD | NS2323 | 149 |
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| | | | * | LDN | 1 | (NO NFL) | 242L642 | 304 |
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| 2 | 5010 | 2000 2011 | CJA1 | LDK | /REM/VTLF | FORMAT LOGOFF REQUEST | 242L642 | 306 |
| 3 | 5012 | 3410 | | STD | CM | | NS2323 | 154 |
| 4 | 5013 | 1402 | | LDN | 2 | SET FORCE LOGOFF | NS2323 | 155 |
| 5 | 5014 | 3412 | | STD | CM+2 | | NS2323 | 156 |
| 6 | 5015 | 5000 1217 | | LDM | TSTN | SET TERMINAL NUMBER | NS2323 | 157 |
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| 8 | 5020 | 3077 | | LDD | MA | ENTER *TSEM* REQUEST PARAMETERS | NS2323 | 159 |
| 9 | 5021 | 6210 | | CWD | CM | | NS2323 | 160 |
| 10 | 5022 | 0200 1643 | | RJM | ITF | ISSUE REQUEST | NS2467 | 32 |
| 11 | 5024 | 0341 | | UJP | CJAX | RETURN | NS2467 | 33 |
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| 17 | | | * | | | | 1AJ | 4716 |
| 18 | | | * | EXIT | TO *EBCX* IF NO *DMP* REQUEST. | | 1AJ | 4717 |
| 19 | | | * | | TO *DPP* IF *DIS* CALL. | | 1AJ | 4718 |
| 20 | | | * | | TO *PPR* IF *DMP* ROLLOUT NEEDED. | | 1AJ | 4719 |
| 21 | | | * | | | | 1AJ | 4720 |
| 22 | | | * | USES | IR+2 - IR+4, CM - CM+4. | | 1AJ | 4721 |
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| 27 | | | | | | | 1AJ | 4726 |
| 28 | | | | | | | 1AJ | 4727 |
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| 30 | 5026 | 1102 | | LMN | 2 | | 1AJ | 4729 |
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| 32 | 5030 | 0100 1571 | | LJM | DPP | DROP PP | 1AJ | 4731 |
| 33 | | | | | | | 1AJ | 4732 |
| 34 | 5032 | 3074 | DMP1 | LDD | CP | READ QUEUE PRIORITY | 1AJ | 4733 |
| 35 | 5033 | 1626 | | ADN | JCIW | | 1AJ | 4734 |
| 36 | 5034 | 6010 | | CRD | CM | | 1AJ | 4735 |
| 37 | 5035 | 3012 | | LDD | CM+2 | | 1AJ | 4736 |
| 38 | 5036 | 2177 0031 | | SBK | LSSI+1 | | 1AJ | 4737 |
| 39 | 5040 | 0703 | | MJN | DMP2 | IF NOT SUBSYSTEM | 1AJ | 4738 |
| 40 | 5041 | 0100 3044 | | LJM | EBCX | PROCESS BATCH ERROR | 1AJ | 4739 |
| 41 | | | | | | | 1AJ | 4740 |
| 42 | 5043 | 1400 | DMP2 | LDN | 0 | | 1AJ | 4741 |
| 43 | 5044 | 3452 | | STD | IR+2 | CLEAR PARAMETERS | 1AJ | 4742 |
| 44 | 5045 | 3453 | | STD | IR+3 | | 1AJ | 4743 |
| 45 | 5046 | 3454 | | STD | IR+4 | | 1AJ | 4744 |
| 46 | 5047 | 3411 | | STD | CM+1 | CLEAR JOB ADVANCE | 1AJ | 4745 |
| 47 | 5050 | 1463 | | MONITOR | JACM | | 1AJ | 4746 |
| 48 | 5053 | 3074 | | LDD | CP | CHECK SPECIAL CALL WORD | 1AJ | 4747 |
| 49 | 5054 | 2100 0106 | | ADC | SPCW | | 1AJ | 4748 |
| 50 | 5056 | 6010 | | CRD | CM | | 1AJ | 4749 |
| 51 | 5057 | 3010 | | LDD | CM | | 1AJ | 4750 |
| 52 | 5060 | 0406 | | ZJN | DMP4 | IF NO SPECIAL REQUEST PENDING | 1AJ | 4751 |
| 53 | 5061 | 2000 5774 | | LDC | =C* SPECIAL REQUEST PROCESSING ERROR.* | | 1AJ | 4752 |
| 54 | 5063 | 0200 0423 | DMP3 | RJM | DFM | | 1AJ | 4753 |

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| | | | | | | | | |
|---|------|------|---------|-----------|------------------------|---------|--------|------|
| 5153 | 5400 | 1222 | STM | ADJB | CLEAR COMMANDS PENDING | NS2323 | 184 | |
| 5155 | 3074 | | LDD | CP | STORE COMMAND POINTERS | V23L617 | 176 | |
| 5156 | 1673 | | ADN | CSPW | | 1AJ | 4791 | |
| 5157 | 6240 | | CWD | SP | | 1AJ | 4792 | |
| 5160 | 1602 | | ADN | RFCW-CSPW | | NS2323 | 185 | |
| 5161 | 6210 | | CWD | CM | | NS2323 | 186 | |
| 5162 | 0344 | | UJN | ESBX | RETURN | 1AJ | 4793 | |
| ** ITL - INCREMENT SPECIFIED LIMIT. | | | | | | | 1AJ | 4803 |
| * ENTRY (CM+4) = UNITS TO INCREMENT | | | | | | | 1AJ | 4806 |
| * (A) = SUBFUNCTION CODE FOR INCREMENT REQUEST. | | | | | | | 1AJ | 4807 |
| * MACROS MONITOR. | | | | | | | 1AJ | 4808 |
| * MACROS MONITOR. | | | | | | | 1AJ | 4809 |
| * MACROS MONITOR. | | | | | | | 1AJ | 4810 |
| * MACROS MONITOR. | | | | | | | 1AJ | 4811 |
| * MACROS MONITOR. | | | | | | | 1AJ | 4812 |
| 5163 | 0100 | 5163 | ITL | SUBR | ENTRY/EXIT | 1AJ | 4813 | |
| 5165 | 3411 | | STD | CM+1 | | 1AJ | 4814 | |
| 5166 | 1400 | | LDN | 0 | | 1AJ | 4815 | |
| 5167 | 3413 | | STD | CM+3 | | 1AJ | 4816 | |
| 5170 | 1475 | | MONITOR | RLMM | | 1AJ | 4817 | |
| 5173 | 0100 | 5163 | LJM | ITLX | RETURN | 1AJ | 4818 | |
| ** SCR - SET CHARGE REQUIRED. | | | | | | | NS2323 | 188 |
| * EXIT CHARGE REQUIRED SET ON JOB. | | | | | | | 1AJ | 4821 |
| * CHARGE REQUIRED FLAG *CRQF* .NE. 0. | | | | | | | NS2323 | 189 |
| * CHARGE REQUIRED FLAG *CRQF* .NE. 0. | | | | | | | 1AJ116 | 13 |
| * USES (SP - SP+4). | | | | | | | 1AJ | 4823 |
| * USES (SP - SP+4). | | | | | | | NS2323 | 190 |
| * USES (SP - SP+4). | | | | | | | 1AJ | 4827 |
| * USES (SP - SP+4). | | | | | | | 1AJ | 4828 |
| 5175 | 0100 | 5175 | SCR | SUBR | ENTRY/EXIT | NS2323 | 191 | |
| 5177 | 3074 | | LDD | CP | SET CHARGE REQUIRED | NS2323 | 192 | |
| 5200 | 1673 | | ADN | CSPW | | NS2323 | 193 | |
| 5201 | 6040 | | CRD | SP | | NS2323 | 194 | |
| 5202 | 3040 | | LDD | SP | | NS2323 | 195 | |
| 5203 | 1304 | | SCN | 4 | | NS2323 | 196 | |
| 5204 | 1104 | | LMN | 4 | | NS2323 | 197 | |
| 5205 | 3440 | | STD | SP | | NS2323 | 198 | |
| 5206 | 5400 | 1251 | STM | CRQF | | 1AJ116 | 14 | |
| 5210 | 3074 | | LDD | CP | | NS2323 | 199 | |
| 5211 | 1673 | | ADN | CSPW | | NS2323 | 200 | |
| 5212 | 6240 | | CWD | SP | | NS2323 | 201 | |
| 5213 | 0361 | | UJN | SCRX | RETURN | NS2323 | 202 | |

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| | | | | | | | | |
|----|----|------|-----------|--|-------|--------------------------------------|---------|------|
| | ** | | | SEJ - SET END-OF-JOB TERMINATION OPTION. | | | 1AJ | 4841 |
| | * | | | | | | 1AJ | 4842 |
| | * | | | SETS THE JOB TERMINATION OPTION IN THE CONTROL | | | 1AJ | 4843 |
| 1 | * | | | POINT AREA END-OF-JOB CONTROL WORD. | | | 1AJ | 4844 |
| 2 | * | | | | | | 1AJ | 4845 |
| 3 | * | | | ENTRY (A) = END-OF-JOB OPTION. | | | 1AJ | 4846 |
| 4 | * | | | | | | 1AJ | 4847 |
| 5 | * | | | EXIT (JTOP) = JOB TERMINATION OPTION. | | | 1AJ | 4848 |
| 6 | * | | | | | | 1AJ | 4849 |
| 7 | * | | | USES CM - CM+4. | | | 1AJ | 4850 |
| 8 | | | | | | | 1AJ | 4851 |
| 9 | | | | | | | 1AJ | 4852 |
| 10 | | 5214 | 0100 5214 | SEJ | SUBR | ENTRY/EXIT | 1AJ | 4853 |
| 11 | | 5216 | 5400 1110 | | STM | JTOP | 1AJ | 4854 |
| 12 | | 5220 | 3074 | | LDD | CP | 1AJ | 4855 |
| 13 | | 5221 | 1627 | | ADK | EOJW | 1AJ | 4856 |
| 14 | | 5222 | 6010 | | CRD | CM | 1AJ | 4857 |
| 15 | | 5223 | 3400 | | STD | T0 | 1AJ | 4858 |
| 16 | | 5224 | 3010 | | LDD | CM | 1AJ | 4859 |
| 17 | | 5225 | 1011 | | SHN | 22-11 | 1AJ | 4860 |
| 18 | | 5226 | 1307 | | SCN | 7 | 241L630 | 86 |
| 19 | | 5227 | 5300 1110 | | LMM | JTOP | 1AJ | 4862 |
| 20 | | 5231 | 1011 | | SHN | 11 | 1AJ | 4863 |
| 21 | | 5232 | 3410 | | STD | CM | 1AJ | 4864 |
| 22 | | 5233 | 3000 | | LDD | T0 | 1AJ | 4865 |
| 23 | | 5234 | 6210 | | CWD | CM | 1AJ | 4866 |
| 24 | | 5235 | 0356 | | UJN | SEJX | 1AJ | 4867 |
| 25 | | | 5236 | L0AV | EQU | * | 1AJ | 4870 |
| 26 | | | 1264 | | ERRNG | 7772-L0AV-ZAVL *0AV* OVERFLOWS *3AB* | 1AJ | 4871 |

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| Line | Address | Code | Subr | Entry/Exit | Address | Code | Subr | Entry/Exit | Address | Code | Subr | Entry/Exit |
|------|---------|------|------|--|---------|-----------|------|--|---------|------|------|------------|
| | | ** | RSF | RETURN SPECIAL FILES. | | | | | 1AJ | | | 5030 |
| | | * | | | | | | | 1AJ | | | 5031 |
| | | * | | CALLED DURING DEADSTART RERUN PROCESSING TO RETURN | | | | | 1AJ | | | 5032 |
| | | * | | *LIFT* FILES WHICH HAVE THE INTERLOCK BIT SET IN | | | | | 1AJ | | | 5033 |
| | | * | | THE FST WORD OR THE PF ACTIVITY BIT SET IN THE FUT WORD. | | | | | V23L617 | | | 178 |
| | | * | | THE DM* FILE WILL ALSO BE RETURNED, IF IT EXISTS. | | | | | V23L617 | | | 179 |
| | | * | | | | | | | 1AJ | | | 5035 |
| | | * | | USES FA, NL, CM - CM+4, CN - CN+4, FN - FN+4, FS - FS+4. | | | | | 1AJ83 | | | 3 |
| | | * | | | | | | | 1AJ | | | 5037 |
| | | * | | CALLS *0DF*. | | | | | 1AJ | | | 5038 |
| | | * | | | | | | | 1AJ | | | 5039 |
| | | * | | MACROS EXECUTE, NFA. | | | | | 1AJ | | | 5040 |
| | | | | | | | | | 1AJ | | | 5041 |
| | | | | | | | | | 1AJ | | | 5042 |
| | | | | | | | | | 1AJ | | | 5043 |
| 12 | 5236 | 0100 | 5236 | RSF | SUBR | | | ENTRY/EXIT | | | | |
| 13 | 5240 | 2000 | 5240 | | LDC | * | | (NEGATIVE FL) | | | | |
| 14 | | | 5241 | RSFA | EQU | *-1 | | | | | | |
| 15 | 5242 | 3432 | | | STD | NL | | | | | | |
| 16 | 5243 | 2000 | 0321 | | LDK | FNTN-LENF | | SET FNT FWA | | | | |
| 17 | 5245 | 3425 | | | STD | CN | | | | | | |
| 19 | | | | * | | | | SEARCH FNT FOR *LIFT* FILES WITH INTERLOCK OR PF ACTIVITY. | | | | |
| | | | | | | | | | V23L617 | | | 181 |
| 21 | 5246 | 1403 | | RSF1 | LDK | LENF | | ADVANCE FNT INDEX | | | | |
| 22 | 5247 | 3525 | | | RAD | CN | | | | | | |
| 23 | 5250 | 3457 | | | STD | FA | | | | | | |
| 24 | 5251 | 3232 | | | SBD | NL | | | | | | |
| 25 | 5252 | 0663 | | | PJN | RSFX | | IF END OF FNT | | | | |
| 26 | 5253 | 3055 | | | NFA | CN,R | | SET FNT ADDRESS | | | | |
| 27 | | | | | ADK | FNTL | | READ FNT WORD | | | | |
| 28 | 5256 | 6040 | | | CRD | FN | | | V23L617 | | | 182 |
| 29 | 5257 | 1601 | | | ADN | FSTL-FNTL | | READ FST WORD | | | | |
| 30 | 5260 | 6020 | | | CRD | FS | | | V23L617 | | | 183 |
| 31 | 5261 | 1601 | | | ADN | FUTL-FSTL | | READ FUT WORD | | | | |
| 32 | 5262 | 6010 | | | CRD | CM | | | V23L617 | | | 184 |
| 33 | 5263 | 3040 | | | LDD | FN | | CHECK FNT ENTRY | | | | |
| 34 | 5264 | 0461 | | | ZJN | RSF1 | | IF NULL FNT ENTRY | | | | |
| 35 | 5265 | 3044 | | | LDD | FN+4 | | CHECK FILE TYPE | | | | |
| 36 | 5266 | 1071 | | | SHN | -6 | | | | | | |
| 37 | 5267 | 1110 | | | LMN | LIFT | | | 1AJ | | | 5064 |
| 38 | 5270 | 0404 | | | ZJN | RSF2 | | IF *LIFT* FILE | | | | |
| 39 | 5271 | 1117 | | | LMN | LIFT&ROFT | | | 1AJ | | | 5068 |
| 40 | 5272 | 0553 | | | NJN | RSF1 | | IF NOT *ROFT* FILE | | | | |
| 41 | 5273 | 0325 | | | UJN | RSF6 | | DROP DM* FILE | | | | |
| 42 | | | | | | | | | 1AJ83 | | | 5 |
| 43 | 5274 | 3024 | | RSF2 | LDD | FS+4 | | CHECK *LIFT* FILE TRACK INTERLOCK FLAG SET | | | | |
| 44 | 5275 | 2200 | 1000 | | LPC | 1000 | | | 1AJ83 | | | 6 |
| 45 | 5277 | 0505 | | | NJN | RSF4 | | IF INTERLOCK SET | | | | |
| 46 | 5300 | 3012 | | | LDD | CM+2 | | | 1AJ83 | | | 7 |
| 47 | 5301 | 1210 | | | LPN | 10 | | | V23L617 | | | 188 |
| 48 | 5302 | 0504 | | | NJN | RSF5 | | IF PF ACTIVITY FLAG SET | | | | |
| 49 | 5303 | 0342 | | RSF3 | UJN | RSF1 | | CHECK NEXT FILE | | | | |
| 50 | | | | | | | | | 1AJ83 | | | 10 |
| 51 | | | | * | | | | CLEAR *LIFT* INTERLOCK BIT AND RETURN FILE. | | | | |
| 52 | | | | | | | | | 1AJ | | | 5077 |
| 53 | 5304 | 3324 | | RSF4 | LMD | FS+4 | | CLEAR INTERLOCK FLAG | | | | |
| 54 | 5305 | 3424 | | | STD | FS+4 | | | 1AJ | | | 5078 |
| 55 | | | | | | | | | 1AJ83 | | | 12 |
| 56 | | | | | | | | | 1AJ83 | | | 13 |

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| | | | | | | | | |
|------|------|------|------|---------|---------------------|--------------------------------------|---------|------|
| 5306 | 3012 | | RSF5 | LDD | CM+2 | CLEAR PF ACTIVITY FLAG IF PRESENT | 1AJ83 | 14 |
| 5307 | 1310 | | | SCN | 10 | | V23L617 | 194 |
| 5310 | 3412 | | | STD | CM+2 | | V23L617 | 195 |
| 5311 | 3055 | | | NFA | CN,R | SET FNT ADDRESS | V23L617 | 196 |
| 5314 | 1601 | | | ADN | FSTL | REWRITE FST WORD | V23L617 | 197 |
| 5315 | 6220 | | | CWD | FS | | 1AJ83 | 15 |
| 5316 | 1601 | | | ADN | FUTL-FSTL | REWRITE FUT WORD | V23L617 | 199 |
| 5317 | 6210 | | | CWD | CM | | V23L617 | 200 |
| 5320 | 1402 | | RSF6 | LDN | 2 | DROP *ROFT* + RETURN FLAGS FOR *0DF* | 1AJ83 | 16 |
| 5321 | 5400 | 6076 | | STM | /EFX/L0DF-1 | | V23L617 | 201 |
| 5323 | 2000 | 6077 | | EXECUTE | 0DF,/EFX/L0DF | DROP FILE | V23L617 | 202 |
| 5332 | 0350 | | | UJN | RSF3 | CHECK NEXT FILE | 1AJ83 | 17 |
| | | | | | | | 1AJ | 5089 |
| | 1072 | | | ERRNG | 7772-/EFX/L0DF-ZDFL | *0DF* OVERFLOWS PP | V23L617 | 203 |
| | | | ** | SFX | - SEARCH FOR EXIT. | | 1AJ | 5093 |
| | | | | | | | 1AJ | 5094 |
| | | | | | | | 1AJ | 5095 |
| 5333 | 0100 | 5333 | SFX | SUBR | | ENTRY/EXIT | 1AJ | 5096 |
| 5335 | 5000 | 2410 | | LDM | CPXS | CHECK EXIT STATUS | 1AJ | 5097 |
| 5337 | 1006 | | | SHN | 21-13 | | 1AJ | 5098 |
| 5340 | 0715 | | | MJN | SFX1 | IF *NOEXIT* | 1AJ | 5099 |
| 5341 | 3074 | | | LDD | CP | SET SKIP TO EXIT COMMAND FLAG | V23L617 | 204 |
| 5342 | 1674 | | | ADN | CSSW | | 1AJ | 5101 |
| 5343 | 6010 | | | CRD | CM | | 1AJ | 5102 |
| 5344 | 3010 | | | LDD | CM | | 1AJ | 5103 |
| 5345 | 2200 | 5777 | | LPC | 5777 | | 1AJ | 5104 |
| 5347 | 2300 | 2000 | | LMC | 2000 | | 1AJ | 5105 |
| 5351 | 3410 | | | STD | CM | | 1AJ | 5106 |
| 5352 | 3074 | | | LDD | CP | | 1AJ | 5107 |
| 5353 | 1674 | | | ADN | CSSW | | 1AJ | 5108 |
| 5354 | 6210 | | | CWD | CM | | 1AJ | 5109 |
| 5355 | 3074 | | SFX1 | LDD | CP | READ JOB CONTROL REGISTERS | 1AJ | 5110 |
| 5356 | 2100 | 0110 | | ADC | JCRW | | 1AJ | 5111 |
| 5360 | 6010 | | | CRD | CM | | 1AJ | 5112 |
| 5361 | 3010 | | | LDD | CM | ENTER ERROR FLAG | 1AJ | 5113 |
| 5362 | 1277 | | | LPN | 77 | | 1AJ | 5114 |
| 5363 | 1014 | | | SHN | 14 | | 1AJ | 5115 |
| 5364 | 3346 | | | LMD | EF | | 1AJ | 5116 |
| 5365 | 1006 | | | SHN | 6 | | 1AJ | 5117 |
| 5366 | 3410 | | | STD | CM | | 1AJ | 5118 |
| 5367 | 1071 | | | SHN | -6 | | 1AJ5 | 1 |
| 5370 | 1125 | | | LMN | IDET | | 1AJ5 | 2 |
| 5371 | 0405 | | | ZJN | SFX2 | IF IDLE DOWN PROCESSING | 1AJ5 | 3 |
| 5372 | 3074 | | | LDD | CP | STORE JOB CONTROL REGISTERS | 1AJ | 5119 |
| 5373 | 2100 | 0110 | | ADC | JCRW | | 1AJ | 5120 |
| 5375 | 6210 | | | CWD | CM | | 1AJ | 5121 |
| 5376 | 0100 | 5333 | SFX2 | LJM | SFXX | RETURN | 1AJ5 | 4 |

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| | | | | | | | |
|----|----|------|-----------|--|----------|---------|------------------------------|
| | ** | | | SQD - SET QUEUE FILE DISPOSITION OPTION. | | 1AJ | 5124 |
| | * | | | | | 1AJ | 5125 |
| | * | | | SETS THE QUEUED FILE DISPOSITION OPTION IN THE | | 1AJ | 5126 |
| 1 | * | | | CONTROL POINT AREA END-OF-JOB CONTROL WORD. | | 1AJ | 5127 |
| 2 | * | | | | | 1AJ | 5128 |
| 3 | * | | | ENTRY (A) = QUEUE FILE DISPOSTION OPTION. | | 1AJ | 5129 |
| 4 | * | | | | | 1AJ | 5130 |
| 5 | * | | | USES CM - CM+4, T1. | | 1AJ | 5131 |
| 6 | | | | | | 1AJ | 5132 |
| 7 | | | | | | 1AJ | 5133 |
| 8 | | 5400 | 0100 5400 | SQD | SUBR | | ENTRY/EXIT |
| 9 | | 5402 | 3401 | | STD T1 | | SAVE DISPOSITION OPTION |
| 10 | | 5403 | 3074 | | LDD CP | | READ END-OF-JOB CONTROL WORD |
| 11 | | 5404 | 1627 | | ADK EOJW | | |
| 12 | | 5405 | 6010 | | CRD CM | | |
| 13 | | 5406 | 3400 | | STD T0 | | SAVE WORD ADDRESS |
| 14 | | 5407 | 3010 | | LDD CM | | SET OPTION |
| 15 | | 5410 | 1014 | | SHN 22-6 | | |
| 16 | | 5411 | 1307 | | SCN 7 | | |
| 17 | | 5412 | 3301 | | LMD T1 | | |
| 18 | | 5413 | 1006 | | SHN 6 | | |
| 19 | | 5414 | 3410 | | STD CM | | |
| 20 | | 5415 | 3000 | | LDD T0 | | REWRITE WORD |
| 21 | | 5416 | 6210 | | CWD CM | | |
| 22 | | 5417 | 0360 | | UJN SQDX | | RETURN |
| 23 | | | | | | 1AJ | 5148 |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | ** | | | VCA - VALIDATE CM ADDRESS. | | 1AJ | 5150 |
| 28 | * | | | | | 1AJ | 5151 |
| 29 | * | | | VALIDATES AND SETS AN ABSOLUTE CENTRAL MEMORY ADDRESS. | | 1AJ | 5152 |
| 30 | * | | | | | 1AJ | 5153 |
| 31 | * | | | ENTRY (A) = CM ADDRESS RELATIVE TO RA. | | 1AJ | 5154 |
| 32 | * | | | | | 1AJ | 5155 |
| 33 | * | | | EXIT (A) = ABSOLUTE CM ADDRESS IF WITHIN FL. | | 1AJ | 5156 |
| 34 | * | | | = 0 IF ADDRESS OUTSIDE FL. | | 1AJ | 5157 |
| 35 | * | | | (T1,T2) = ABSOLUTE CM ADDRESS. | | 1AJ | 5158 |
| 36 | * | | | | | 1AJ | 5159 |
| 37 | * | | | USES T1, T2. | | 1AJ | 5160 |
| 38 | | | | | | 1AJ | 5161 |
| 39 | | | | | | 1AJ | 5162 |
| 40 | | 5420 | 1400 | VCA1 | LDN 0 | V23L617 | 205 |
| 41 | | | | | | 1AJ | 5164 |
| 42 | | 5421 | 0100 5421 | VCA | SUBR | | ENTRY/EXIT |
| 43 | | 5423 | 1014 | | SHN 14 | | SET ABSOLUTE ADDRESS |
| 44 | | 5424 | 3155 | | ADD RA | | |
| 45 | | 5425 | 1006 | | SHN 6 | | |
| 46 | | 5426 | 3402 | | STD T2 | | SAVE LOWER 12 BITS |
| 47 | | 5427 | 1071 | | SHN -6 | | |
| 48 | | 5430 | 3255 | | SBD RA | | VALIDATE AGAINST RA+FL |
| 49 | | 5431 | 3256 | | SBD FL | | |
| 50 | | 5432 | 0665 | | PJN VCA1 | | IF OUT OF RANGE |
| 51 | | 5433 | 3155 | | ADD RA | | RESTORE ADDRESS |
| 52 | | 5434 | 3156 | | ADD FL | | |
| 53 | | 5435 | 1071 | | SHN -6 | | STORE UPPER 6 BITS |
| 54 | | 5436 | 3401 | | STD T1 | | |

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5437 1014
5440 3102
5441 0357

SHN 14 SET (A) = ABSOLUTE ADDRESS
ADD T2
UJN VCAX RETURN

1AJ 5178
1AJ 5179
1AJ 5180

** RESIDENT COMMON DECKS.

1AJ 5182
1AJ 5183
1AJ 5184
COMPCVI 1

5442

CTEXT COMPCVI - CONVERT VALIDATION INDICES.

| | 6053 | | EXPA | BSS | 0 | EXCHANGE PACKAGE BUFFER | 1AJ | 5189 |
|----|------|------|------|--------|---------|--|---------|------|
| | | | | | | | 1AJ | 5190 |
| | | | | | | | 1AJ | 5191 |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | ** | | | PRS - PRESET ERROR PROCESSING OVERLAY. | 1AJ | 5193 |
| 6 | | | * | | | | 1AJ | 5194 |
| 7 | | | * | | | ENTRY (EF) = ERROR FLAG DETECTED OR SET BY 1AJ. | 1AJ | 5195 |
| 8 | | | * | | | | 1AJ | 5196 |
| 9 | | | * | | | EXIT (A) = RECOVERABILITY STATUS: | 1AJ | 5197 |
| 10 | | | * | | | = ZERO IF REPRIEVE/EREXIT NOT POSSIBLE. | 1AJ | 5198 |
| 11 | | | * | | | .LT. 0 IF IDLE OF SPECIAL SUBSYSTEM. | NS2009 | 37 |
| 12 | | | * | | | (TA) = *IAF* RA IF ON-LINE INTERACTIVE JOB. | 1AJ | 5199 |
| 13 | | | * | | | (TN) = TERMINAL NUMBER IF ON-LINE INTERACTIVE JOB. | 1AJ | 5200 |
| 14 | | | * | | | (CW - CW+4) = ENTRY/EXIT CONTROL WORD. | 1AJ | 5201 |
| 15 | | | * | | | (CPXS) = CONTROL POINT EXIT STATUS. | 1AJ | 5202 |
| 16 | | | * | | | | 1AJ | 5203 |
| 17 | | | * | | | USES CM - CM+4, CN - CN+4, CW - CW+4, EF. | 1AJ | 5204 |
| 18 | | | * | | | | 1AJ | 5205 |
| 19 | | | * | | | CALLS CSA, CSE, CSF, CSS, CUA, STP. | V23L617 | 206 |
| 20 | | | * | | | | 1AJ | 5207 |
| 21 | | | * | | | MACROS MONITOR, PAUSE. | NS2009 | 39 |
| 22 | | | | | | | 1AJ | 5209 |
| 23 | | | | | | | 1AJ | 5210 |
| 24 | 6053 | 0100 | 6053 | PRS | SUBR | ENTRY/EXIT | 1AJ | 5211 |
| 25 | 6055 | 0200 | 6453 | | RJM | CUA | V23L617 | 207 |
| 26 | 6057 | 5400 | 5076 | | STM | DMPB | V23L617 | 208 |
| 27 | 6061 | 0200 | 6333 | | RJM | STP | 1AJ | 5212 |
| 28 | 6063 | 3074 | | | LDD | CP | 242L642 | 318 |
| 29 | 6064 | 1623 | | | ADK | FLSW | 242L642 | 319 |
| 30 | 6065 | 6010 | | | CRD | CM | 242L642 | 320 |
| 31 | 6066 | 3010 | | | LDD | CM | 242L642 | 321 |
| 32 | 6067 | 1006 | | | SHN | 6 | 242L642 | 322 |
| 33 | 6070 | 5400 | 5241 | | STM | RSFA | 242L642 | 323 |
| 34 | 6072 | 0511 | | | NJN | PRS0.1 | 242L642 | 324 |
| 35 | 6073 | 5600 | 5002 | | AOM | CJAA | 242L642 | 325 |
| 36 | 6075 | 3046 | | | LDD | EF | 242L642 | 326 |
| 37 | 6076 | 1743 | | | SBN | SYET | 242L642 | 327 |
| 38 | 6077 | 0606 | | | PJN | PRS0.2 | 242L642 | 328 |
| 39 | 6100 | 1443 | | | LDN | SYET | 242L642 | 329 |
| 40 | 6101 | 3446 | | | STD | EF | 242L642 | 330 |
| 41 | 6102 | 0303 | | | UJN | PRS0.2 | 242L642 | 331 |
| 42 | | | | | | CONTINUE | 242L642 | 332 |
| 43 | 6103 | 0200 | 6261 | PRS0.1 | RJM | CSA | 242L642 | 333 |
| 44 | 6105 | 1400 | | PRS0.2 | PAUSE | PAUSE FOR RELOCATION | 242L642 | 334 |
| 45 | 6113 | 3011 | | | LDD | CM+1 | NS2044 | 9 |
| 46 | 6114 | 0431 | | | ZJN | PRS3 | NS2044 | 10 |
| 47 | 6115 | 1747 | | | SBN | MXET | 1AJ | 5217 |
| 48 | 6116 | 0713 | | | MJN | PRS1 | 1AJ | 5218 |
| 49 | 6117 | 1400 | | | LDN | 0 | 241L630 | 87 |
| 50 | 6120 | 3412 | | | STD | CM+2 | 241L630 | 88 |
| 51 | 6121 | 2000 | 6121 | | LDC | * | 241L630 | 89 |
| 52 | 6123 | 3411 | | | STD | CM+1 | 241L630 | 90 |
| 53 | 6124 | 1421 | | | MONITOR | CHGM | 241L630 | 91 |
| 54 | 6127 | 1445 | | | LDN | SWET | 241L630 | 92 |

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1

| Line | Code | Address | PRG | Op | Op2 | Description | Target | Value |
|------|------|-----------|--------|---------|-----------|--|--------|-------|
| | 6130 | 3446 | | STD | EF | | 1AJ | 5221 |
| | | | | | | | NS2044 | 11 |
| | | | * | | | CHECK FOR SPECIAL ERROR PROCESSING. | NS2044 | 12 |
| 1 | | | | | | | NS2044 | 13 |
| 2 | 6131 | 0200 2613 | PRS1 | RJM | CSF | CHECK SCR FOR FATAL ERROR | NS2044 | 14 |
| 3 | 6133 | 0406 | | ZJN | PRS2 | IF NOT FATAL ERROR | NS2044 | 15 |
| 4 | 6134 | 5600 2411 | | AOM | PERS | FLAG HARDWARE ERROR DETECTED | 1AJ91 | 2 |
| 5 | 6136 | 1400 | | LDN | 0 | SET (A) STATUS = RECOVERY IMPOSSIBLE | NS2044 | 17 |
| 6 | 6137 | 0100 6053 | | UJP | PRSX | RETURN | NS2044 | 18 |
| 7 | | | | | | | NS2044 | 19 |
| 8 | | | * | | | CLEAR ERROR FLAG IN CPA. | NS2044 | 20 |
| 9 | | | | | | | NS2044 | 21 |
| 10 | 6141 | 3411 | PRS2 | STD | CM+1 | | NS2044 | 22 |
| 11 | 6142 | 1454 | | MONITOR | CEFM | | 1AJ | 5224 |
| 12 | | | | | | | 1AJ | 5232 |
| 13 | | | * | | | RESET SENSE SWITCHES. | 1AJ | 5233 |
| 14 | | | | | | | 1AJ | 5234 |
| 15 | 6145 | 3074 | PRS3 | LDD | CP | READ SENSE SWITCH WORD | 1AJ | 5235 |
| 16 | 6146 | 1630 | | ADN | SNSW | | 1AJ | 5236 |
| 17 | 6147 | 6025 | | CRD | CN | | 1AJ | 5237 |
| 18 | 6150 | 1641 | | ADN | EECW-SNSW | READ ENTRY/EXIT CONTROL | 1AJ | 5238 |
| 19 | 6151 | 6060 | | CRD | CW | | 1AJ | 5239 |
| 20 | 6152 | 3046 | | LDD | EF | | NS2324 | 8 |
| 21 | 6153 | 1115 | | LMN | TLET | | NS2324 | 9 |
| 22 | 6154 | 0513 | | NJN | PRS3.1 | IF NOT TIME LIMIT | NS2324 | 10 |
| 23 | 6155 | 3060 | | LDD | CW | | NS2324 | 11 |
| 24 | 6156 | 1021 | | SHN | 21-0 | | NS2324 | 12 |
| 25 | 6157 | 0610 | | PJN | PRS3.1 | IF VALIDATION HAS NOT BEEN EXTENDED | NS2324 | 13 |
| 26 | 6160 | 1466 | | LDN | ZERL | | NS2324 | 14 |
| 27 | 6161 | 6060 | | CRD | CW | | NS2324 | 15 |
| 28 | 6162 | 3074 | | LDD | CP | CLEAR EXIT CONTROL | NS2324 | 16 |
| 29 | 6163 | 1671 | | ADK | EECW | | NS2324 | 17 |
| 30 | 6164 | 6260 | | CWD | CW | | NS2324 | 18 |
| 31 | 6165 | 1400 | | LDN | 0 | | NS2324 | 19 |
| 32 | 6166 | 3465 | | STD | RF | | NS2324 | 20 |
| 33 | 6167 | 3056 | PRS3.1 | LDD | FL | CHECK FIELD LENGTH | NS2324 | 21 |
| 34 | 6170 | 0413 | | ZJN | PRS4 | IF NO FIELD LENGTH ASSIGNED | 1AJ | 5241 |
| 35 | 6171 | 3055 | | LDD | RA | READ RA+0 | 1AJ | 5242 |
| 36 | 6172 | 1006 | | SHN | 6 | | 1AJ | 5243 |
| 37 | 6173 | 6010 | | CRD | CM | | 1AJ | 5244 |
| 38 | 6174 | 3031 | | LDD | CN+4 | GET CP SENSE SWITCHES | 1AJ | 5245 |
| 39 | 6175 | 2200 7700 | | LPC | 7700 | | 1AJ102 | 1 |
| 40 | 6177 | 3414 | | STD | CM+4 | RESET RA+0 SENSE SWITCHES | 1AJ | 5246 |
| 41 | 6200 | 3055 | | LDD | RA | REWRITE RA+0 | 1AJ | 5247 |
| 42 | 6201 | 1006 | | SHN | 6 | | 1AJ | 5248 |
| 43 | 6202 | 6210 | | CWD | CM | | 1AJ | 5249 |
| 44 | | | | | | | 1AJ | 5250 |
| 45 | | | * | | | CLEAR PAUSE BIT IN CONTROL POINT AREA. | 1AJ | 5251 |
| 46 | | | | | | | 1AJ | 5252 |
| 47 | 6203 | 3030 | PRS4 | LDD | CN+3 | CLEAR PAUSE BIT | 1AJ | 5253 |
| 48 | 6204 | 1301 | | SCN | 1 | | 1AJ | 5254 |
| 49 | 6205 | 3430 | | STD | CN+3 | | 1AJ | 5255 |
| 50 | 6206 | 3074 | | LDD | CP | REWRITE SENSE SWITCH WORD | 1AJ | 5256 |
| 51 | 6207 | 1630 | | ADN | SNSW | | 1AJ | 5257 |
| 52 | 6210 | 6225 | | CWD | CN | | 1AJ | 5258 |
| 53 | | | | | | | 1AJ | 5259 |
| 54 | | | * | | | CHECK FOR IDLEDOWN OF SPECIAL SUBSYSTEM. | 1AJ | 5260 |

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| | | | | | | | | | | | |
|----|------|------|------|--------|------|---|-----------------------------------|---------|------|--|----|
| 1 | 6211 | 3046 | | LDD | EF | | | 1AJ | 5261 | | 1 |
| 2 | 6212 | 1125 | | LMK | IDET | | | 1AJ | 5262 | | 2 |
| 3 | 6213 | 0504 | | NJN | PRS5 | IF NOT SUBSYSTEM IDLEDOWN | | 1AJ | 5263 | | 3 |
| 4 | 6214 | 0200 | 6303 | RJM | CSS | CHECK FOR SPECIAL SUBSYSTEM | | 1AJ | 5264 | | 4 |
| 5 | 6216 | 0730 | | MJN | PRS6 | IF SPECIAL SUBSYSTEM | | NS2009 | 40 | | 5 |
| 6 | | | | | | | | 1AJ | 5267 | | 6 |
| 7 | | | | * | | RETURN REPRIEVE/EREXIT PERMISSION STATUS. | | 1AJ | 5268 | | 7 |
| 8 | 6217 | 5046 | 4320 | PRS5 | LDM | TROF,EF | | 1AJ104 | 1 | | 8 |
| 9 | 6221 | 2300 | 0200 | | LMK | /COMSRPV/TICL | | 1AJ104 | 2 | | 9 |
| 10 | 6223 | 0415 | | | ZJN | PRS5.1 | IF USER BREAK | 1AJ104 | 3 | | 10 |
| 11 | 6224 | 3074 | | | LDD | CP | CHECK ERROR PROCESSING LIMIT | 1AJ104 | 4 | | 11 |
| 12 | 6225 | 1677 | | | ADK | ACLW | | NS2463 | 3 | | 12 |
| 13 | 6226 | 6010 | | | CRD | CM | | NS2463 | 4 | | 13 |
| 14 | 6227 | 3010 | | | LDD | CM | | NS2463 | 5 | | 14 |
| 15 | 6230 | 2300 | 7777 | | LMC | 7777B | | NS2463 | 6 | | 15 |
| 16 | 6232 | 0406 | | | ZJN | PRS5.1 | IF UNLIMITED ERROR PROCESSING SET | NS2463 | 7 | | 16 |
| 17 | 6233 | 3710 | | | SOD | CM | | NS2463 | 8 | | 17 |
| 18 | 6234 | 0714 | | | MJN | PRS7 | IF NO MORE RETRIES POSSIBLE | NS2463 | 9 | | 18 |
| 19 | 6235 | 3074 | | | LDD | CP | | NS2463 | 10 | | 19 |
| 20 | 6236 | 1677 | | | ADK | ACLW | | NS2463 | 11 | | 20 |
| 21 | 6237 | 6210 | | | CWD | CM | | NS2463 | 12 | | 21 |
| 22 | 6240 | 3060 | | PRS5.1 | LDD | CW | SET CP EXIT STATUS | NS2463 | 13 | | 22 |
| 23 | 6241 | 5400 | 2410 | | STM | CPXS | | 1AJ | 5271 | | 23 |
| 24 | 6243 | 3046 | | | LDD | EF | | 242L642 | 335 | | 24 |
| 25 | 6244 | 1736 | | | SBN | NRET | | 242L642 | 336 | | 25 |
| 26 | 6245 | 1056 | | | SHN | 0-21 | | 242L642 | 337 | | 26 |
| 27 | 6246 | 0100 | 6053 | PRS6 | LJM | PRSX | RETURN | 1AJ | 5274 | | 27 |
| 28 | | | | | | | | NS2463 | 14 | | 28 |
| 29 | 6250 | 2000 | 6036 | PRS7 | LDC | =C* | ERROR PROCESSING LIMIT.* | NS2463 | 15 | | 29 |
| 30 | 6252 | 0200 | 0423 | | RJM | DFM | | NS2463 | 16 | | 30 |
| 31 | 6254 | 1400 | | | LDN | 0 | | NS2463 | 17 | | 31 |
| 32 | 6255 | 3460 | | | STD | CW | TURN OFF REPRIEVE OPTIONS | NS2463 | 18 | | 32 |
| 33 | 6256 | 3465 | | | STD | RF | | NS2463 | 19 | | 33 |
| 34 | 6257 | 0366 | | | UJN | PRS6 | RETURN | NS2463 | 20 | | 34 |
| 35 | | | | | | | | | | | 35 |
| 36 | | | | | | | | | | | 36 |
| 37 | | | | | | | | | | | 37 |
| 38 | | | | *** | | CSA - CHECK *SHELL* ABORT. | | NS21000 | 128 | | 38 |
| 39 | | | | * | | | | NS21000 | 129 | | 39 |
| 40 | | | | * | EXIT | NFL WORD *SHCN* | CLEARED IF *SHELL* ABORT | NS21000 | 130 | | 40 |
| 41 | | | | * | | | AND ABORT FLAG SET IN *SHCN*. | NS21000 | 131 | | 41 |
| 42 | | | | * | | | | NS21000 | 132 | | 42 |
| 43 | | | | * | USES | CM | CM+4. | NS21000 | 133 | | 43 |
| 44 | | | | | | | | NS21000 | 134 | | 44 |
| 45 | | | | | | | | NS21000 | 135 | | 45 |
| 46 | 6260 | 0100 | 6260 | CSA | SUBR | | ENTRY/EXIT | NS21000 | 136 | | 46 |
| 47 | 6262 | 3055 | | | NFA | SHCN | CHECK *SHELL* IN EXECUTION | NS21000 | 137 | | 47 |
| 48 | 6265 | 6010 | | | CRD | CM | | NS21000 | 138 | | 48 |
| 49 | 6266 | 3014 | | | LDD | CM+4 | | NS21000 | 139 | | 49 |
| 50 | 6267 | 1006 | | | SHN | 21-13 | | NS2114 | 3 | | 50 |
| 51 | 6270 | 0667 | | | PJN | CSAX | IF *SHELL* NOT IN EXECUTION | NS21000 | 141 | | 51 |
| 52 | 6271 | 1005 | | | SHN | 21-6-21+13 | | NS2114 | 4 | | 52 |
| 53 | 6272 | 0665 | | | PJN | CSAX | IF CONTROL NOT TO BE CLEARED | NS21000 | 143 | | 53 |
| 54 | 6273 | 1466 | | | LDN | ZERL | | NS21000 | 144 | | 54 |
| 55 | | | | | | | | | | | 55 |
| 56 | | | | | | | | | | | 56 |
| 57 | | | | | | | | | | | 57 |
| 58 | | | | | | | | | | | 58 |
| 59 | | | | | | | | | | | 59 |
| 60 | | | | | | | | | | | 60 |

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| | | | | | | |
|------|------|-----|------|--------|---------|-----|
| 6274 | 6010 | CRD | CM | | NS21000 | 145 |
| 6275 | 3055 | NFA | SHCN | | NS21000 | 146 |
| 6300 | 6210 | CWD | CM | | NS21000 | 147 |
| 6301 | 0356 | UJN | CSAX | RETURN | NS21000 | 148 |

** CSS - CHECK FOR SPECIAL SUBSYSTEM. NS2009 42
* NS2009 43
* EXIT (A) .LT. 0 IF SPECIAL SUBSYSTEM. NS2009 44
* NS2009 45
* USES T1, CM - CM+4. V23L617 211
NS2009 47
NS2009 48

| | | | | | | | |
|------|------|------|------|------|------------|------------------------------|-------------|
| 6302 | 0100 | 6302 | CSS | SUBR | ENTRY/EXIT | NS2009 | 49 |
| 6304 | 3074 | | | LDD | CP | NS2009 | 50 |
| 6305 | 1626 | | | ADN | JCIW | NS2009 | 51 |
| 6306 | 6010 | | | CRD | CM | NS2009 | 52 |
| 6307 | 2000 | 6322 | | LDC | CSSA-1 | SET TABLE ADDRESS | V23L617 212 |
| 6311 | 3401 | | | STD | T1 | V23L617 | 213 |
| 6312 | 3601 | | CSS1 | AOD | T1 | CHECK NEXT TABLE ENTRY | V23L617 214 |
| 6313 | 4001 | | | LDI | T1 | V23L617 | 215 |
| 6314 | 0465 | | | ZJN | CSSX | IF END OF TABLE | V23L617 216 |
| 6315 | 3312 | | | LMD | CM+2 | V23L617 | 217 |
| 6316 | 0573 | | | NJN | CSS1 | IF NOT A MATCH | V23L617 218 |
| 6317 | 5600 | 3210 | | AOM | IDLA | SET SPECIAL SUBSYSTEM FLAG | V23L617 219 |
| 6321 | 1501 | | | LCN | 1 | SET SPECIAL SUBSYSTEM STATUS | NS2009 63 |
| 6322 | 0357 | | | UJN | CSSX | RETURN | NS2009 64 |
| | | | | | | V23L617 | 220 |
| | | | | | | V23L617 | 221 |
| 6323 | | | CSSA | BSS | 0 | TABLE OF SPECIAL SUBSYSTEMS | V23L617 222 |
| 6323 | 7761 | | | CON | BISI | *BATCHIO* | V23L617 223 |
| 6324 | 7760 | | | CON | MTSI | *MAGNET* | V23L617 224 |
| 6325 | 7753 | | | CON | ASSI | *MSE* | 242L642 338 |
| 6326 | 7763 | | | CON | MFSI | *MSS* | V23L617 226 |
| 6327 | 7755 | | | CON | SMSI | *SMF* | V23L617 227 |
| 6330 | 7772 | | | CON | TRSI | *TAF* | V23L617 228 |
| 6331 | 0000 | | | CON | 0 | END OF TABLE | V23L617 229 |

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```

**      STP - SET TERMINAL TABLE POINTER.          1AJ      5320
*
*      ENTRY (TSTN) = TERMINAL NUMBER IF ON-LINE INTERACTIVE JOB 1AJ      5321
*                                     AND *IAF* IS ACCESSIBLE. 1AJ      5322
*                                     AND *IAF* IS ACCESSIBLE. 1AJ      5323
*                                     AND *IAF* IS ACCESSIBLE. 1AJ      5324
*      USES      CM - CM+4.                          NS2748      22
*
*      NOTE      TERMINAL TABLE POINTER NO LONGER SET. NS2748      23
*

```

| Line | Address | Code | Label | Subroutine | Description | Terminal | Pointer |
|------|---------|------|-------|------------|-------------|----------|------------------------------|
| 8 | 6332 | 0100 | 6332 | STP | SUBR | | |
| 9 | 6334 | 3074 | | LDD | CP | | |
| 10 | 6335 | 1671 | | ADK | TINW | | |
| 11 | 6336 | 6010 | | CRD | CM | | |
| 12 | 6337 | 3046 | | LDD | EF | | |
| 13 | 6340 | 1101 | | LMN | TIET | | |
| 14 | 6341 | 0503 | | ZJP | STP2 | | IF USER BREAK ONE |
| 15 | 6344 | 1103 | | LMN | TAET&TIET | | |
| 16 | 6345 | 0503 | | ZJP | STP2 | | IF USER BREAK TWO |
| 17 | 6350 | 3013 | | LDD | CM+3 | | |
| 18 | 6351 | 1377 | | SCN | 77 | | |
| 19 | 6352 | 1006 | | SHN | 6 | | |
| 20 | 6353 | 3312 | | LMD | CM+2 | | |
| 21 | 6354 | 1006 | | SHN | 6 | | |
| 22 | 6355 | 0454 | | ZJP | STPX | | IF NO TERMINAL INPUT FET |
| 23 | 6356 | 5400 | 6371 | STM | STPA | | |
| 24 | 6360 | 1063 | | SHN | -14 | | |
| 25 | 6361 | 5500 | 6370 | RAM | STPA-1 | | |
| 26 | 6363 | 3012 | | LDD | CM+2 | | |
| 27 | 6364 | 3256 | | SBD | FL | | |
| 28 | 6365 | 0627 | | PJN | STP1.1 | | IF FET ADDRESS OUT OF RANGE |
| 29 | 6366 | 3055 | | LDD | RA | | |
| 30 | 6367 | 1006 | | SHN | 6 | | |
| 31 | 6370 | 2100 | 0000 | ADC | ** | | |
| 32 | | | 6371 | STPA | EQU *-1 | | |
| 33 | 6372 | 6170 | 6444 | CRM | STPB,ON | | READ FET+0 |
| 34 | 6374 | 5000 | 6450 | LDM | STPB+4 | | COMPLETE FET |
| 35 | 6376 | 1301 | | SCN | 1 | | |
| 36 | 6377 | 1101 | | LMN | 1 | | |
| 37 | 6400 | 5400 | 6450 | STM | STPB+4 | | |
| 38 | 6402 | 5000 | 6370 | LDM | STPA-1 | | |
| 39 | 6404 | 1277 | | LPN | 77 | | |
| 40 | 6405 | 1006 | | SHN | 6 | | |
| 41 | 6406 | 3155 | | ADD | RA | | |
| 42 | 6407 | 1006 | | SHN | 6 | | |
| 43 | 6410 | 5100 | 6371 | ADM | STPA | | |
| 44 | 6412 | 6370 | 6444 | CWM | STPB,ON | | |
| 45 | 6414 | 0316 | | STP1.1 | UJN | | CLEAR FET ADDRESS |
| 46 | | | | | | | |
| 47 | 6415 | 3013 | | STP2 | LDD | | CM+3 |
| 48 | 6416 | 1377 | | SCN | 77 | | |
| 49 | 6417 | 1006 | | SHN | 6 | | |
| 50 | 6420 | 3312 | | LMD | CM+2 | | |
| 51 | 6421 | 0503 | | ZJP | STPX | | IF NO TERMINAL INPUT PENDING |
| 52 | 6424 | 1006 | | SHN | 6 | | SAVE TERMINAL INPUT POINTER |
| 53 | 6425 | 5400 | 4105 | STM | RIPA | | |
| 54 | 6427 | 1063 | | SHN | -14 | | |

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| | | | | | | | | |
|------|------|------|------|------|--------|--------|-------|------|
| 6430 | 5500 | 4104 | | RAM | RIPA-1 | | 1AJ | 5358 |
| 6432 | 1400 | | STP3 | LDN | 0 | | 1AJ30 | 36 |
| 6433 | 3412 | | | STD | CM+2 | | 1AJ | 5360 |
| 6434 | 3013 | | | LDD | CM+3 | | 1AJ | 5361 |
| 6435 | 1277 | | | LPN | 77 | | 1AJ | 5362 |
| 6436 | 3413 | | | STD | CM+3 | | 1AJ | 5363 |
| 6437 | 3074 | | | LDD | CP | | 1AJ | 5364 |
| 6440 | 1671 | | | ADK | TINW | | 1AJ | 5365 |
| 6441 | 6210 | | | CWD | CM | | 1AJ | 5366 |
| 6442 | 0100 | 6332 | | LJM | STPX | RETURN | 1AJ | 5367 |
| | | | | | | | 1AJ30 | 37 |
| 6444 | | | 5 | STPB | BSS | 5 | 1AJ30 | 38 |

** PRESET EXECUTABLE COMMON DECKS.

6451 CTEXT COMPCUA - CHECK USER ACCESS.

OVERFLOW /PEF/PEFX

| | | | |
|------|-------|----------------------|-------------------------------|
| 1205 | ERRNG | .2-.1+5-.3/500B*500B | BYTES LEFT AFTER LAST SECTOR |
| 41 | ERRNG | .3/500B*500B-*.1-5 | BYTES LEFT IN LAST SECTOR |
| 1241 | ERRNG | .4/500B*500B-*.1-5 | BYTES CAN BE ADDED TO OVERLAY |
| 7 | ERRNG | .3/500B | SECTORS NEEDED FOR OVERLAY |

LIST *

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QUAL EFX NS21000 154
 IDENT 3AL,ENTX ERROR PROCESSING EXTENSION. NS22000 192
 COMMENT 82/02/26. 95/06/23. 1AJ - ERROR PROCESSING EXTENSION. NS21000 156
 COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992. 281L803 4

*** *3AL* IS AN EXTENSION TO OVERLAY *3AB*.
 * TO MAINTAIN DOCUMENTATION CONSISTENCY ALL ERROR MESSAGES
 * WILL BE DOCUMENTED AT THE BEGINNING OF *3AB*.
 NS21000 159
 NS21000 160
 NS21000 161

| | | | | | | | |
|------|------|------|-----|-------------|------------|---------|-----|
| 6060 | | | ORG | /PEF/EXPA+5 | | NS21000 | 163 |
| 6060 | 0100 | 6060 | ENT | SUBR | ENTRY/EXIT | NS21000 | 164 |
| 6062 | 0375 | | UJN | ENTX | RETURN | NS21000 | 165 |

** DRE - DEADSTART RERUN PROCESSOR. V23L617 232
 * V23L617 233
 * SETS THE JOB TERMINATION STATUS OF NON-INTERACTIVE V23L617 234
 * JOB TO *RJJP*, ISSUES RERUN ACCOUNT FILE MESSAGE, V23L617 235
 * AND ADVANCES JOB TO THE NEXT *EXIT* COMMAND. V23L617 236
 * V23L617 237
 * CALLS DFM, RSF, SEJ. V23L617 238
 V23L617 239

| | | | | | | | | |
|------|------|------|-----|-----|-----------|----------------------------|---------|-----|
| 6063 | | | DRE | BSS | 0 | ENTRY | V23L617 | 241 |
| 6063 | 1402 | | | LDN | RJJT | SELECT RERUN OPTION | V23L617 | 242 |
| 6064 | 0200 | 5215 | | RJM | /PEF/SEJ | SET END OF JOB OPTION | V23L617 | 243 |
| 6066 | 2005 | 6076 | | LDC | DREA+ACFN | ISSUE ACCOUNT FILE MESSAGE | V23L617 | 244 |
| 6070 | 0200 | 0423 | | RJM | DFM | | V23L617 | 245 |
| 6072 | 0200 | 5237 | | RJM | /PEF/RSF | RETURN SPECIAL FILES | V23L617 | 246 |
| 6074 | 0100 | 3044 | | LJM | /PEF/EBCX | EXIT | V23L617 | 247 |

| | | | | | | | | |
|------|------|------|------|------|--------------|--------------------|---------|-----|
| | | 6077 | L0DF | EQU | **1 | *0DF* LOAD ADDRESS | V23L617 | 249 |
| | | | | | | | V23L617 | 250 |
| | | | | | | | V23L617 | 251 |
| 6076 | 0105 | | DREA | DATA | C*AERR, DS.* | | V23L617 | 252 |

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IDL

EFX

| | | | |
|------|--|---------|-----|
| ** | IDL - IDLEDOWN SUBSYSTEM. | NS21000 | 167 |
| * | | NS21000 | 168 |
| * | IF JOB IS A SPECIAL SUBSYSTEM (*BATCHIO*, *MAGNET*, *SMF*, | NS21000 | 169 |
| * | *MSS* OR *TAF*), THE SUBSYSTEM IDLEDOWN FLAG (BIT 2**15 OF | NS21000 | 170 |
| * | RA+0 AND BIT 2**15 OF CONTROL POINT AREA WORD *SNSW*) WILL | NS21000 | 171 |
| * | BE SET. IF THE JOB IS NOT A SPECIAL SUBSYSTEM, IT WILL BE | NS21000 | 172 |
| * | ABORTED WITH THE *ODET* ERROR FLAG. | NS21000 | 173 |
| * | | NS21000 | 174 |
| * | EXIT TO *STC* TO RESTART JOB. | NS21000 | 175 |
| * | | NS21000 | 176 |
| * | USES CM - CM+4, EF. | NS21000 | 177 |
| * | | NS21000 | 178 |
| * | CALLS DFM. | NS21000 | 179 |
| | | NS21000 | 180 |
| | | NS21000 | 181 |
| 6104 | 2000 7262 IDL LDC =C* OPERATOR IDLEDOWN.* | NS21000 | 182 |
| 6106 | 0200 0423 RJM DFM ISSUE DAYFILE MESSAGE | NS21000 | 183 |
| 6110 | 3055 LDD RA READ RA+0 | NS21000 | 184 |
| 6111 | 1006 SHN 6 | NS21000 | 185 |
| 6112 | 6010 CRD CM | NS21000 | 186 |
| 6113 | 3013 LDD CM+3 SET IDLEDOWN FLAG IN (RA) | NS21000 | 187 |
| 6114 | 1310 SCN 10 | NS21000 | 188 |
| 6115 | 1110 LMN 10 | NS21000 | 189 |
| 6116 | 3413 STD CM+3 | NS21000 | 190 |
| 6117 | 3055 LDD RA REWRITE RA+0 | NS21000 | 191 |
| 6120 | 1006 SHN 6 | NS21000 | 192 |
| 6121 | 6210 CWD CM | NS21000 | 193 |
| 6122 | 3074 LDD CP READ CPA WORD *SNSW* | NS21000 | 194 |
| 6123 | 1630 ADK SNSW | NS21000 | 195 |
| 6124 | 6010 CRD CM | NS21000 | 196 |
| 6125 | 3013 LDD CM+3 SET IDLEDOWN FLAG IN CPA | NS21000 | 197 |
| 6126 | 1310 SCN 10 | NS21000 | 198 |
| 6127 | 1110 LMN 10 | NS21000 | 199 |
| 6130 | 3413 STD CM+3 | NS21000 | 200 |
| 6131 | 3074 LDD CP REWRITE CPA WORD *SNSW* | NS21000 | 201 |
| 6132 | 1630 ADK SNSW | NS21000 | 202 |
| 6133 | 6210 CWD CM | NS21000 | 203 |
| 6134 | 1644 ADK CSSW-SNSW READ CPA WORD *CSSW* | NS21000 | 204 |
| 6135 | 6010 CRD CM | NS21000 | 205 |
| 6136 | 3010 LDD CM CLEAR *SKIP-TO-EXIT* FLAG | NS21000 | 206 |
| 6137 | 2200 5777 LPC 5777 | NS21000 | 207 |
| 6141 | 3410 STD CM | NS21000 | 208 |
| 6142 | 3074 LDD CP WRITE CPA WORD *CSSW* | NS21000 | 209 |
| 6143 | 1674 ADK CSSW | NS21000 | 210 |
| 6144 | 6210 CWD CM | NS21000 | 211 |
| 6145 | 0100 4274 LJM /PEF/STC RESTART CPU | NS21000 | 212 |

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| | | | | | | | |
|------|-----------|--------|---------|------------|--|---------|-----|
| 6244 | 0100 5025 | ARI2.1 | LJM | /PEF/DMP | EXIT TO DUMP PROGRAM | NS21000 | 268 |
| | | | | | | V23L617 | 256 |
| | | | | | | V23L617 | 257 |
| 6246 | 2000 6456 | ARI3 | LDC | ARIE-1 | SET UP FOR SECOND SECTION | NS21000 | 269 |
| 6250 | 3404 | | STD | T4 | | NS21000 | 270 |
| 6251 | 3005 | | LDD | T5 | CHECK FOR MORE ERRORS | NS21000 | 271 |
| 6252 | 0554 | | NJN | ARI1 | IF MORE ERRORS TO PROCESS | NS21000 | 272 |
| | | | | | | 1AJ117 | 1 |
| | | * | | | PROCESS *PEET* ERROR. | 1AJ117 | 2 |
| | | | | | | 1AJ117 | 3 |
| 6253 | 3046 | ARI3.1 | LDD | EF | | NS21000 | 273 |
| 6254 | 1144 | | LMN | PEET | | NS21000 | 274 |
| 6255 | 0566 | | NJN | ARI2.1 | IF NOT PARITY ERROR | V23L617 | 258 |
| 6256 | 1445 | | LDK | SSTL | CHECK SYSTEM DEBUG ENABLED | 241L630 | 94 |
| 6257 | 6010 | | CRD | CM | | 241L630 | 95 |
| 6260 | 3013 | | LDD | CM+3 | | 241L630 | 96 |
| 6261 | 1020 | | SHN | 21-1 | | 241L630 | 97 |
| 6262 | 0620 | | PJN | ARI3.3 | IF SYSTEM DEBUG ENABLED | 241L630 | 98 |
| 6263 | 1400 | ARI3.2 | LDN | 0 | VERIFY THIS CONTROL POINT-S FL | NS2355 | 1 |
| 6264 | 3411 | | STD | CM+1 | | NS2355 | 2 |
| 6265 | 2000 0116 | | MONITOR | VFLM | | NS2355 | 3 |
| 6271 | 3011 | | LDD | CM+1 | | V23L617 | 265 |
| 6272 | 0422 | | ZJN | ARI4 | IF FL VERIFICATION SUCCESSFUL | V23L617 | 266 |
| 6273 | 1021 | | SHN | 21-0 | | V23L617 | 267 |
| 6274 | 0706 | | MJN | ARI3.3 | IF FL VERIFICATION FAILED | V23L617 | 268 |
| 6275 | 5000 0255 | | DELAY | | | V23L617 | 269 |
| 6301 | 0361 | | UJN | ARI3.2 | FUNCTION WAS IN USE, GO RETRY | V23L617 | 270 |
| | | | | | | V23L617 | 271 |
| 6302 | 3074 | ARI3.3 | LDD | CP | | V23L617 | 272 |
| 6303 | 1631 | | ADN | MS1W | | V23L617 | 273 |
| 6304 | 6373 6520 | | CWM | ARIH,TR | | V23L617 | 274 |
| 6306 | 5000 2411 | | LDM | /PEF/PERS | HARDWARE ERROR FLAG | 1AJ91 | 3 |
| 6310 | 5500 1212 | | RAM | ADJA | SET PARITY ERROR FLAG | 1AJ91 | 4 |
| 6312 | 0100 3516 | | LJM | /PEF/TRJ | TERMINATE JOB | NS2323 | 204 |
| | | | | | | V23L617 | 277 |
| 6314 | 5000 2411 | ARI4 | LDM | /PEF/PERS | | 1AJ117 | 4 |
| 6316 | 0406 | | ZJN | ARI4.0 | IF ERROR FLAG ALREADY CLEARED IN *3AB* | 1AJ117 | 5 |
| 6317 | 1466 | | LDN | ZERL | CLEAR ERROR FLAG | 1AJ117 | 6 |
| 6320 | 6010 | | CRD | CM | | 1AJ66 | 2 |
| 6321 | 1454 | | MONITOR | CEFM | | 1AJ66 | 3 |
| 6324 | 0200 5130 | ARI4.0 | RJM | /PEF/ESB | EMPTY STATEMENT BUFFER | 1AJ117 | 7 |
| 6326 | 5000 1217 | | LDM | TSTN | | V23L617 | 279 |
| 6330 | 0504 | | NJN | ARI4.1 | IF ON-LINE INTERACTIVE JOB | V23L617 | 280 |
| 6331 | 1403 | | LDN | HRJT | SELECT HARDWARE RERUN OPTION | V23L617 | 281 |
| 6332 | 0200 5215 | | RJM | /PEF/SEJ | SET END OF JOB OPTION | V23L617 | 282 |
| 6334 | 0100 3044 | ARI4.1 | LJM | /PEF/EBCX | EXIT | V23L617 | 283 |
| | | | | | | NS21000 | 277 |
| 6336 | 2000 0113 | ARI5 | LDK | MABL | CHECK FOR CYBER 170-8X5 | NS21000 | 280 |
| 6340 | 6010 | | CRD | CM | | NS21000 | 281 |
| 6341 | 3011 | | LDD | CM+1 | | NS21000 | 282 |
| 6342 | 1006 | | SHN | 21-13 | | NS21000 | 283 |
| 6343 | 0724 | | MJN | ARI5.2 | IF NOT A CYBER 170-8X5 | NS21000 | 284 |
| 6344 | 1005 | | SHN | 21-6-21+13 | | 1AJ64 | 1 |
| 6345 | 0622 | | PJN | ARI5.2 | IF CYBER 170-865/875 | 1AJ64 | 2 |
| 6346 | 5600 2046 | | AOM | TERA | FORCE SYSTEM CHECKPOINT IF PROCESSOR ERROR | 243L647 | 12 |
| 6350 | 3025 | | LDD | CN | | NS21000 | 285 |
| 6351 | 1120 | | LMN | 20 | | NS21000 | 286 |

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| | | | | | | | |
|------|-----------|--------|------|-----------|---|---------|-----|
| 6352 | 0405 | | ZJN | ARI5.1 | IF PROCESSOR DETECTED MALFUNCTION | NS21000 | 287 |
| 6353 | 1147 | | LMN | 67&20 | | NS21000 | 288 |
| 6354 | 0513 | | NJN | ARI5.2 | IF NOT HARDWARE MALFUNCTION | NS21000 | 289 |
| 6355 | 2000 0161 | | LDC | ARIF&ARIG | | NS21000 | 290 |
| 6357 | 2300 6462 | ARI5.1 | LMC | ARIF | | NS21000 | 291 |
| 6361 | 0200 0423 | | RJM | DFM | | NS21000 | 292 |
| 6363 | 0200 6622 | | RJM | IBM | ISSUE BML MESSAGE | 243L647 | 13 |
| 6365 | 0100 6253 | | LJM | ARI3.1 | CONTINUE | V23L617 | 284 |
| | | | | | | NS21000 | 294 |
| 6367 | 3025 | ARI5.2 | LDD | CN | CONVERT ERROR CODES | NS21000 | 295 |
| 6370 | 1201 | | LPN | 1 | CM RANGE ERROR | NS21000 | 296 |
| 6371 | 1006 | | SHN | 6-0 | | NS21000 | 297 |
| 6372 | 3403 | | STD | T3 | | NS21000 | 298 |
| 6373 | 3025 | | LDD | CN | | NS21000 | 299 |
| 6374 | 1206 | | LPN | 6 | ARITHMETIC OVERFLOW AND INDEFINITE | NS21000 | 300 |
| 6375 | 3503 | | RAD | T3 | | NS21000 | 301 |
| 6376 | 3025 | | LDD | CN | | NS21000 | 302 |
| 6377 | 1074 | | SHN | -3 | | NS21000 | 303 |
| 6400 | 1203 | | LPN | 3 | FLAG REGISTER PARITY AND CMC PARITY | NS21000 | 304 |
| 6401 | 3405 | | STD | T5 | | NS21000 | 305 |
| 6402 | 3025 | | LDD | CN | | NS21000 | 306 |
| | | | | | | NS21000 | 307 |
| | | * | | | THE FOLLOWING MASK ALLOWS FOR THE CASE IN WHICH | NS21000 | 308 |
| | | * | | | A 6000-SERIES CPU STORES THE RETURN INSTRUCTION | NS21000 | 309 |
| | | * | | | *EQ ADDR* INTO RA+0 AND THEN INTERPRETS THE ZERO WORD | NS21000 | 310 |
| | | * | | | AT SYSTEM REQUEST AS A PROGRAM STOP. | V23L617 | 285 |
| | | | | | | NS21000 | 312 |
| 6403 | 1277 | | LPN | 77 | EXTRACT BITS 53-48 | NS21000 | 313 |
| 6404 | 0503 | | NJN | ARI6 | IF NOT INCORRECT INSTRUCTION | V23L617 | 286 |
| 6405 | 1404 | | LDN | 4 | | NS21000 | 315 |
| 6406 | 3505 | | RAD | T5 | | NS21000 | 316 |
| 6407 | 3025 | ARI6 | LDD | CN | | NS21000 | 317 |
| 6410 | 1240 | | LPN | 40 | CM PARITY | NS21000 | 318 |
| 6411 | 1005 | | SHN | 12-5 | | NS21000 | 319 |
| 6412 | 3503 | | RAD | T3 | | NS21000 | 320 |
| 6413 | 0507 | | NJN | ARI7 | IF ERRORS IN FIRST SECTION | NS21000 | 321 |
| 6414 | 2000 6456 | | LDC | ARIE-1 | SET UP FOR ERRORS IN SECOND SECTION | NS21000 | 322 |
| 6416 | 3404 | | STD | T4 | | NS21000 | 323 |
| 6417 | 3005 | | LDD | T5 | | NS21000 | 324 |
| 6420 | 0100 6227 | | LJM | ARI1 | PROCESS SECOND SECTION ERRORS | NS21000 | 325 |
| | | | | | | NS21000 | 326 |
| 6422 | 0100 6232 | ARI7 | LJM | ARI2 | ISSUE ERROR MESSAGES | NS21000 | 327 |
| | | | | | | NS21000 | 328 |
| | | | | | | NS21000 | 329 |
| 6424 | 5503 | ARIB | DATA | H* | CPU ERROR EXIT AT * | NS21000 | 330 |
| 6436 | 3333 | ARIC | DATA | C* | 000000.* | NS21000 | 331 |
| | | | | | | NS21000 | 332 |
| 6443 | | ARID | BSS | 0 | | NS21000 | 333 |
| 6443 | 7275 | | CON | =C* | ARITHMETIC UNDERFLOW.* | NS21000 | 334 |
| 6444 | 7311 | | CON | =C* | ARITHMETIC OVERFLOW.* | NS21000 | 335 |
| 6445 | 7325 | | CON | =C* | ARITHMETIC INDEFINITE.* | NS21000 | 336 |
| 6446 | 7342 | | CON | =C* | STEP CONDITION.* | NS21000 | 337 |
| 6447 | 7353 | | CON | =C* | BREAKPOINT CONDITION.* | NS21000 | 338 |
| 6450 | 7367 | | CON | =C* | PROGRAM STOP.* | NS21000 | 339 |
| 6451 | 7377 | | CON | =C* | CM OUT OF RANGE.* | NS21000 | 340 |
| 6452 | 7411 | | CON | =C* | EXTENDED MEMORY OUT OF RANGE.* | V23L617 | 287 |
| 6453 | 7431 | | CON | =C* | CM BLOCK OUT OF RANGE.* | NS21000 | 342 |

CML

EFX

| | | | | | | | | |
|-------------------------------|-----------|--|------|-----------|---|------------------------------------|---------|----|
| 6600 | 0051 | | CON | ACTW | RELATIVE CP AREA ADDRESS OF LIMIT FIELD | NS2388 | 70 | |
| 6601 | 6701 | | CON | 55D*100+1 | POSTION AND WIDTH OF LIMIT FIELD | NS2388 | 71 | |
| 6602 | 0000 0000 | | CON | 0,0 | | NS2388 | 72 | |
| 6604 | 5511 | | CMLB | DATA | H* INITIAL* | NS2388 | 74 | |
| 6610 | 5503 | | CMLC | DATA | C* COMMAND LIMIT.* | NS2388 | 75 | |
| | | | | | | | | |
| ** IBM - ISSUE *BML* MESSAGE. | | | | | | | | |
| * ENTRY (CN - CN+4) = RA+0. | | | | | | | | |
| * EXIT *BML* MESSAGE ISSUED. | | | | | | | | |
| * USES CM - CM+4. | | | | | | | | |
| | | | | | | | | |
| 6621 | 0100 6621 | | IBM | SUBR | ENTRY/EXIT | 243L647 | 24 | |
| 6623 | 1477 | | | LDN | PPCP | STORE LOGICAL PP NUMBER BEING USED | 243L647 | 25 |
| 6624 | 6010 | | | CRD | CM | | 243L647 | 26 |
| 6625 | 3075 | | | LDD | IA | | 243L647 | 27 |
| 6626 | 3214 | | | SBD | CM+4 | | 243L647 | 28 |
| 6627 | 1074 | | | SHN | -3 | | 243L647 | 29 |
| 6630 | 1006 | | | SHN | 6 | | 243L647 | 30 |
| 6631 | 5400 6672 | | | STM | IBMA+2 | | 243L647 | 31 |
| 6633 | 2000 0122 | | | LDC | MMFL | READ MACHINE ID | 243L647 | 32 |
| 6635 | 6010 | | | CRD | CM | | 243L647 | 33 |
| 6636 | 3010 | | | LDD | CM | | 243L647 | 34 |
| 6637 | 5400 6700 | | | STM | IBMA+10 | | 243L647 | 35 |
| 6641 | 3025 | | | LDD | CN | | 243L647 | 36 |
| 6642 | 1167 | | | LMN | 67 | | 243L647 | 37 |
| 6643 | 0503 | | | NJN | IBM1 | IF NOT MODE 67 ERROR | NS2418 | 1 |
| 6644 | 5600 6671 | | | AOM | IBMA+1 | SYMPTOM CODE | 243L647 | 39 |
| 6646 | 3027 | | IBM1 | LDD | CN+2 | READ (P) | 243L647 | 40 |
| 6647 | 1377 | | | SCN | 77 | | 243L647 | 41 |
| 6650 | 1006 | | | SHN | 6 | | 243L647 | 42 |
| 6651 | 3326 | | | LMD | CN+1 | | 243L647 | 43 |
| 6652 | 3155 | | | ADD | RA | | 1AJ88 | 1 |
| 6653 | 1006 | | | SHN | 6 | | 243L647 | 44 |
| 6654 | 6170 6707 | | | CRM | IBMA+17,0N | | 243L647 | 45 |
| 6656 | 1466 | | | LDN | ZERL | | 243L647 | 46 |
| 6657 | 6010 | | | CRD | CM | | 243L647 | 47 |
| 6660 | 1424 | | | LDN | 4*5 | SET BYTE COUNT FOR *BML* MESSAGE | 1AJ112 | 1 |
| 6661 | 3411 | | | STD | CM+1 | | 243L647 | 49 |
| 6662 | 2016 6670 | | | LDC | IBMA+BMLN | ISSUE BML MESSAGE | 243L647 | 50 |
| 6664 | 0200 0423 | | | RJM | DFM | | 243L647 | 51 |
| 6666 | 0100 6621 | | | LJM | IBMX | RETURN | 243L647 | 52 |
| | | | | | | | | |
| 6670 | 0250 | | IBMA | VFD | 12/250B,12/1011B,6/0,6/17B,24/0 | | 243L647 | 54 |
| 6671 | 1011 | | | | | | | |
| 6672 | 0017 | | | | | | | |
| 6673 | 0000 | | | | | | | |
| 6674 | 0000 | | | | | | | |
| 6675 | 0000 | | | VFD | 36/0,12/0,12/0 | | 243L647 | 55 |
| 6676 | 0000 | | | | | | | |

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6677 0000
 6700 0000
 6701 0000
 6702 0000
 6703 0000
 6704 0000
 6705 0000
 6706 0000
 6707 0000
 6710 0000
 6711 0000
 6712 0000
 6713 0000

VFD 60/0

243L647 56

VFD 60/0

243L647 57

** MSL - PROCESS MESSAGE LIMIT ERROR.

1AJ34 24

*
 * EXIT TO */PEF/TRJ* IF INITIAL MESSAGE LIMIT FLAG HAS
 * ALREADY BEEN SET.
 * TO */PEF/ECBX* IF INITIAL MESSAGE LIMIT.

1AJ34 25
 NS2323 205
 1AJ34 27
 1AJ34 28

* USES CM - CM+4.

1AJ34 29

* CALLS DFM.

1AJ34 30

* MACROS MONITOR.

1AJ34 31

1AJ34 32

1AJ34 33

1AJ34 34

1AJ34 35

1AJ34 36

6714 MSL BSS 0 ENTRY 1AJ34 37
 6714 3074 LDD CP READ ACCOUNTING LIMIT FLAGS 1AJ34 38
 6715 1651 ADN ACTW 1AJ34 39
 6716 6010 CRD CM 1AJ34 40
 6717 3010 LDD CM CHECK INITIAL MESSAGE LIMIT 1AJ34 41
 6720 1013 SHN 21-6 1AJ34 42
 6721 0607 PJN MSL1 IF INITIAL MESSAGE LIMIT 1AJ34 43
 6722 2000 6767 LDC MSLC * MESSAGE LIMIT.* 1AJ34 44
 6724 0200 0423 RJM DFM 1AJ34 45
 6726 0100 3516 LJM /PEF/TRJ TERMINATE JOB NS2323 206

6730 MSL1 LDN 1 SETUP *UADM* CALL 1AJ34 47

6731 3412 STD CM+2 1AJ34 48

6732 1402 LDN 2 1AJ34 49

6733 3411 STD CM+1 1AJ34 50

6734 3077 LDD MA STORE *UADM* PARAMETERS 1AJ34 51

6735 6311 6751 CWM MSLA,CM+1 1AJ34 52

6737 2000 0114 MONITOR UADM INCREMENT MESSAGE LIMIT 1AJ34 53

6743 2000 6763 LDC MSLB * INITIAL MESSAGE LIMIT.* 1AJ34 54

6745 0200 0423 RJM DFM 1AJ34 55

6747 0100 3044 LJM /PEF/EBCX RETURN 1AJ34 56

1AJ34 57

1AJ34 58

1AJ34 59

6751 0010 MSLA CON CICS INCREMENT CP AREA FIELD 1AJ34 60

6752 0077 CON ACLW CP AREA WORD 1AJ34 61

6753 4414 CON 36DS6+12D LOCATION WITHIN WORD + FIELD WIDTH 1AJ34 62

6754 0000 0100 CON 0,DMLI INCREMENT VALUE 1AJ34 63

1AJ34 64

1AJ34 65

1AJ34 66

1AJ34 67

1AJ34 68

1AJ34 69

1AJ34 70

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| | | | | | | | |
|----------------------------------|-----------|--|------|---------|------------------------------------|--|-------------|
| 6756 | 0012 | | CON | CIOS | INCREMENT CP AREA FIELD BY ONE | 1AJ34 | 64 |
| 6757 | 0051 | | CON | ACTW | CP AREA WORD | 1AJ34 | 65 |
| 6760 | 6601 | | CON | 54DS6+1 | LOCATION WITHIN WORD + FIELD WIDTH | 1AJ34 | 66 |
| 6761 | 0000 0000 | | CON | 0,0 | | 1AJ34 | 67 |
| 6763 | 5511 | | MSLB | DATA | H* INITIAL* | 1AJ34 | 68 |
| 6767 | 5515 | | MSLC | DATA | C* MESSAGE LIMIT.* | 1AJ34 | 69 |
| | | | | | | | |
| ** MCL - MONITOR CALL PROCESSOR. | | | | | | | |
| * NS21000 354 | | | | | | | |
| * CALLS C2D, DFM. | | | | | | | |
| * NS21000 355 | | | | | | | |
| NS21000 356 | | | | | | | |
| NS21000 357 | | | | | | | |
| NS21000 358 | | | | | | | |
| 7000 | 3055 | | MCL | LDD | RA | V23L617 | 293 |
| 7001 | 1006 | | | SHN | 6 | NS21000 | 360 |
| 7002 | 1601 | | | ADN | 1 | NS21000 | 361 |
| 7003 | 6010 | | | CRD | CM | NS21000 | 362 |
| 7004 | 2000 6061 | | | LDC | /PEF/EXPA+6 | SET BUFFER ADDRESS | NS21000 363 |
| 7006 | 3403 | | | STD | T3 | NS21000 | 364 |
| 7007 | 1410 | | | LDN | CM | SET BYTE ADDRESS | NS21000 365 |
| 7010 | 3402 | | | STD | T2 | NS21000 | 366 |
| 7011 | 4002 | | MCL1 | LDI | T2 | REPLACE BLANKS WITH SPACES | NS21000 367 |
| 7012 | 1377 | | | SCN | 77 | NS21000 | 368 |
| 7013 | 0503 | | | NJN | MCL2 | IF UPPER CHARACTER NOT ZERO | NS21000 369 |
| 7014 | 1455 | | | LDN | 1R | NS21000 | 370 |
| 7015 | 1006 | | | SHN | 6 | NS21000 | 371 |
| 7016 | 3400 | | MCL2 | STD | T0 | NS21000 | 372 |
| 7017 | 4002 | | | LDI | T2 | NS21000 | 373 |
| 7020 | 1277 | | | LPN | 77 | NS21000 | 374 |
| 7021 | 0502 | | | NJN | MCL3 | IF LOWER CHARACTER NOT ZERO | NS21000 375 |
| 7022 | 1455 | | | LDN | 1R | NS21000 | 376 |
| 7023 | 3300 | | MCL3 | LMD | T0 | NS21000 | 377 |
| 7024 | 5402 6043 | | | STM | /PEF/EXPA-CM,T2 | NS21000 | 378 |
| 7026 | 4002 | | | LDI | T2 | CONVERT DATA | NS21000 379 |
| 7027 | 1071 | | | SHN | -6 | NS21000 | 380 |
| 7030 | 0200 7251 | | | RJM | C2D | NS21000 | 381 |
| 7032 | 4403 | | | STI | T3 | NS21000 | 382 |
| 7033 | 3603 | | | AOD | T3 | NS21000 | 383 |
| 7034 | 4002 | | | LDI | T2 | NS21000 | 384 |
| 7035 | 0200 7251 | | | RJM | C2D | NS21000 | 385 |
| 7037 | 4403 | | | STI | T3 | NS21000 | 386 |
| 7040 | 3603 | | | AOD | T3 | NS21000 | 387 |
| 7041 | 3602 | | | AOD | T2 | NS21000 | 388 |
| 7042 | 1115 | | | LMN | CM+5 | NS21000 | 389 |
| 7043 | 0545 | | | NJN | MCL1 | IF MORE BYTES TO CONVERT | NS21000 390 |
| 7044 | 4403 | | | STI | T3 | NS21000 | 391 |
| 7045 | 2000 5555 | | | LDC | 2R | NS21000 | 392 |
| 7047 | 5402 6043 | | | STM | /PEF/EXPA-CM,T2 | NS21000 | 393 |
| 7051 | 2000 6053 | | | LDC | /PEF/EXPA | ISSUE SYSTEM REQUEST TO DAYFILE | V23L617 294 |
| 7053 | 0200 0423 | | | RJM | DFM | NS21000 | 395 |
| 7055 | 2000 7063 | | | LDC | MCLA | NS21000 | 396 |
| 7057 | 0200 0423 | | | RJM | DFM | ISSUE *MONITOR CALL ERROR.* TO THE DAYFILE | NS21000 397 |
| 7061 | 0100 3044 | | | LJM | /PEF/EBCX | RETURN | NS21000 398 |

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NS21000 399
NS21000 400
NS21000 401

7063 5515 MCLA DATA C* MONITOR CALL ERROR.*

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**      ORE - PROCESS OPERATOR OVERRIDE.      242L642  340
*      242L642  341
*      SETS UNCONDITIONAL TERMINATION MODE AND TERMINATES JOB.  242L642  342
*      242L642  343
*      ENTRY (JO) = EJT ORDINAL.                242L642  344
*      242L642  345
*      EXIT TO *TRJ*.                            242L642  346
*      242L642  347
*      USES CM - CM+4.                          242L642  348
*      242L642  349
*      MACROS MONITOR, SFA.                     242L642  350

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7076      ORE      BSS      0      ENTRY      242L642  353
7076      1466     LDN      ZERL     SET *UCTM* STATUS  242L642  354
7077      6010     CRD      CM      242L642  355
7100      1401     LDN      1      242L642  356
7101      3411     STD      CM+1    242L642  357
7102      3045     SFA      EJT,JO   CALCULATE EJT ENTRY ADDRESS  242L642  358
7105      3414     STD      CM+4    242L642  359
7106      1063     SHN      -14     242L642  360
7107      3413     STD      CM+3    242L642  361
7110      3077     LDD      MA      WRITE PARAMETER TO MESSAGE BUFFER  242L642  362
7111      6370 7121 CWM      OREA,ON  242L642  363
7113      2000 0115 MONITOR UTEM  242L642  364
7117      0100 3516 LJM      /PEF/TRJ  TERMINATE JOB  242L642  365
7121      0102     OREA      VFD      1/0,5/SCHE,6/2,6/33D,42/UCTM  242L642  366
7122      4100     242L642  367
7123      0000
7124      0000
7125      0002

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**      PPA - PROCESS PP ABORT.                1AJ46    11
*      1AJ46    12
*      EXIT TO *DMP1* TO PROCESS DUMP.         1AJ46    13
*      TO *EBCX* IF NO DUMP REQUIRED.          1AJ46    14
*      1AJ46    15
*      CALLS CPD.                             1AJ46    16

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7126      PPA      BSS      0      ENTRY      1AJ46    19
7126      3074     LDD      CP      CHECK IF *DMP* REQUIRED  1AJ46    20
7127      2100 0115 ADC      PPDW    1AJ46    21
7131      6010     CRD      CM      1AJ46    22
7132      3013     LDD      CM+3    1AJ46    23
7133      3114     ADD      CM+4    1AJ46    24

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**      TLE - TIME LIMIT ERROR PROCESSOR.      NS2463      22
*      NS2463      23
*      CLEAR TIME LIMIT FLAGS BEFORE ADVANCING TO THE NEXT JOB STEP. NS2463      24
*      NS2463      25
*      EXIT TO *EBCX*.      NS2463      26

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7234      TLE      BSS      0      ENTRY      NS2463      28
7234      3074      LDD      CP      CLEAR THE TIME LIMIT FLAGS      NS2463      29
7235      1651      ADN      SRUW      NS2463      30
7236      6010      CRD      CM      NS2463      31
7237      3010      LDD      CM      NS2463      32
7240      2200 1777      LPC      1777      NS2463      33
7242      3410      STD      CM      NS2463      34
7243      3074      LDD      CP      RESTORE *SRUW*      NS2463      35
7244      1651      ADN      SRUW      NS2463      36
7245      6210      CWD      CM      NS2463      37
7246      0100 3044      LJM      /PEF/EBCX      RETURN      NS2463      38

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*      COMMON DECKS.      NS21000      433
NS21000      434

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7250      CTEXT      COMPC2D - CONVERT 2 OCTAL DIGITS TO DISPLAY CODE.      NS21000      435
COMPC2D      1
USE      BUFFERS      NS21000      437
NS21000      438
NS21000      439
NS21000      440
OVERFLOW /EFX/ENTX      NS21000      441
OVERFLOW.1
25      ERRNG      .2-.1+5-.3/500B*500B      BYTES LEFT AFTER LAST SECTOR      OVERFLOW.1
155      ERRNG      .3/500B*500B-*.1-5      BYTES LEFT IN LAST SECTOR      OVERFLOW.1
155      ERRNG      .4/500B*500B-*.1-5      BYTES CAN BE ADDED TO OVERLAY      OVERFLOW.1
3      ERRNG      .3/500B      SECTORS NEEDED FOR OVERLAY      OVERFLOW.1
LIST      *      OVERFLOW.1

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CER

| | | | |
|---------|---|---------|-----|
| QUAL | CER | V23L617 | 297 |
| IDENT | 3AN,ENTX | V23L617 | 298 |
| COMMENT | 82/02/26. 95/06/23. 1AJ - ERROR RETURN PROCESSOR. | V23L617 | 299 |
| COMMENT | COPYRIGHT CONTROL DATA SYSTEMS INC. 1992. | 281L803 | 5 |

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|-----|--|---------|-----|
| *** | *3AN* IS AN EXTENSION TO OVERLAY *3AB*. | V23L617 | 302 |
| * | TO MAINTAIN DOCUMENTATION CONSISTENCY ALL ERROR MESSAGES | V23L617 | 303 |
| * | WILL BE DOCUMENTED AT THE BEGINNING OF *3AB*. | V23L617 | 304 |

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|------|-----------|-----|-------------|------------|---------|
| 6060 | | ORG | /PEF/EXPA+5 | V23L617 | 306 |
| 6060 | 0100 6060 | ENT | SUBR | ENTRY/EXIT | V23L617 |
| 6062 | 0375 | UJN | ENTX | RETURN | V23L617 |

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| ** | CER - CHECK ERROR RETURN. | V23L617 | 311 |
| * | | V23L617 | 312 |
| * | ENTRY (T1) = REPRIEVE BLOCK LENGTH, NON-EXTENDED REPRIEVE. | NS2323 | 207 |
| * | (T1) = 0, IF ERROR EXIT. | V23L617 | 315 |
| * | (CW - CW+4) = EXIT CONTROL WORD. | V23L617 | 316 |
| * | | V23L617 | 317 |
| * | EXIT TO *RIJ* TO RESTART JOB IF POSSIBLE. | V23L617 | 318 |
| * | | V23L617 | 319 |
| * | USES CW+1, CW+3, CW+4, T6, T7, CM - CM+4. | V23L617 | 320 |
| * | | NS2323 | 208 |
| * | CALLS /PEF/CJS, DFM, PEX, PRP. | V23L617 | 322 |

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|------|-----------|------|-----|---|---------|-----|
| 6063 | 2000 6454 | CER3 | LDC | =C* INCORRECT ERROR EXIT ADDRESS.* | V23L617 | 325 |
| 6065 | 0200 0423 | | RJM | DFM | V23L617 | 326 |
| 6067 | 1400 | CER4 | LDN | 0 CLEAR ERROR EXIT ADDRESS/REPRIEVE OPTIONS | V23L617 | 327 |
| 6070 | 3461 | | STD | CW+1 | V23L617 | 328 |
| 6071 | 3464 | | STD | CW+4 | V23L617 | 329 |
| 6072 | 3063 | | LDD | CW+3 | V23L617 | 330 |
| 6073 | 1377 | | SCN | 77 | V23L617 | 331 |
| 6074 | 3463 | | STD | CW+3 | V23L617 | 332 |
| 6075 | 3074 | | LDD | CP | V23L617 | 333 |
| 6076 | 1671 | | ADN | EECW | V23L617 | 334 |
| 6077 | 6260 | | CWD | CW | V23L617 | 335 |

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|------|-----------|-----|------|------------|---------|-----|
| 6100 | 0100 6100 | CER | SUBR | ENTRY/EXIT | V23L617 | 337 |
| 6102 | 3063 | | LDD | CW+3 | NS2323 | 209 |
| 6103 | 1277 | | LPN | 77 | NS2323 | 210 |
| 6104 | 3406 | | STD | T6 | V23L617 | 340 |
| 6105 | 1014 | | SHN | 14 | NS2323 | 211 |
| 6106 | 0760 | | MJN | CER4 | NS2323 | 212 |
| 6107 | 3064 | | LDD | CW+4 | NS2323 | 213 |
| 6110 | 3407 | | STD | T7 | NS2323 | 214 |
| 6111 | 0200 2413 | | RJM | /PEF/CJS | V23L617 | 341 |
| 6113 | 0453 | | ZJN | CER4 | V23L617 | 342 |
| 6114 | 3006 | | LDD | T6 | V23L617 | 343 |
| 6115 | 1014 | | SHN | 14 | V23L617 | 344 |

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| 6116 | 3307 | | LMD | T7 | | V23L617 | 345 |
| 6117 | 1702 | | SBN | 2 | | V23L617 | 346 |
| 6120 | 0742 | | MJN | CER3 | IF INCORRECT ADDRESS | V23L617 | 347 |
| 6121 | 1602 | | ADN | 2 | | V23L617 | 348 |
| 6122 | 3101 | | ADD | T1 | | V23L617 | 349 |
| 6123 | 1071 | | SHN | -6 | | V23L617 | 350 |
| 6124 | 3256 | | SBD | FL | | V23L617 | 351 |
| 6125 | 0703 | | PJP | CER3 | IF ADDRESS OUTSIDE FL | NS2323 | 215 |
| 6130 | 3065 | | LDD | RF | | V23L617 | 353 |
| 6131 | 0511 | | NJN | CER1 | IF REPRIEVE | V23L617 | 354 |
| 6132 | 3046 | | LDD | EF | | V23L617 | 355 |
| 6133 | 1107 | | LMN | CPET | | V23L617 | 356 |
| 6134 | 0443 | | ZJN | CERX | IF CPU ABORT | V23L617 | 357 |
| 6135 | 1133 | | LMN | RRET&CPET | | V23L617 | 358 |
| 6136 | 0441 | | ZJN | CERX | IF RERUN | V23L617 | 359 |
| 6137 | 0200 6170 | | RJM | PEX | PROCESS EXIT | V23L617 | 360 |
| 6141 | 0306 | | UJN | CER2 | RESET (P) | V23L617 | 361 |
| | | | | | | V23L617 | 362 |
| 6142 | 0200 6231 | CER1 | RJM | PRP | PROCESS REPRIEVE | V23L617 | 363 |
| 6144 | 0403 | | ZJN | CER2 | IF REPRIEVE POSSIBLE | V23L617 | 364 |
| 6145 | 0100 6067 | | LJM | CER4 | CLEAR OPTIONS | V23L617 | 365 |
| | | | | | | V23L617 | 366 |
| 6147 | 3074 | CER2 | LDD | CP | RESET (P) | V23L617 | 367 |
| 6150 | 6010 | | CRD | CM | | V23L617 | 368 |
| 6151 | 3006 | | LDD | T6 | | V23L617 | 369 |
| 6152 | 3410 | | STD | CM | | V23L617 | 370 |
| 6153 | 3007 | | LDD | T7 | | V23L617 | 371 |
| 6154 | 3411 | | STD | CM+1 | | V23L617 | 372 |
| 6155 | 3074 | | LDD | CP | STORE (P) | V23L617 | 373 |
| 6156 | 6210 | | CWD | CM | | V23L617 | 374 |
| 6157 | 1466 | | LDN | ZERL | CLEAR SYSTEM REQUEST | V23L617 | 375 |
| 6160 | 6010 | | CRD | CM | | V23L617 | 376 |
| 6161 | 3055 | | LDD | RA | | V23L617 | 377 |
| 6162 | 1006 | | SHN | 6 | | V23L617 | 378 |
| 6163 | 1601 | | ADN | 1 | | V23L617 | 379 |
| 6164 | 6210 | | CWD | CM | | V23L617 | 380 |
| 6165 | 0100 4246 | | LJM | /PEF/RIJ | RESTART JOB | V23L617 | 381 |
| | | | | | | | |
| | | | ** | PEX - PROCESS EXIT. | | V23L617 | 383 |
| | | | * | | | V23L617 | 384 |
| | | | * | ENTRY (CW - CW+4) = ERROR EXIT CONTROL WORD. | | V23L617 | 385 |
| | | | * | (T6 - T7) = ERROR EXIT ADDRESS. | | V23L617 | 386 |
| | | | * | | | V23L617 | 387 |
| | | | * | EXIT (CW - CW+4) = UPDATED. | | V23L617 | 388 |
| | | | * | (T6 - T7) = ADDRESS TO SET (P) TO. | | V23L617 | 389 |
| | | | * | | | V23L617 | 390 |
| | | | * | USES CW+3, CW+4, T1 - T3, CM - CM+4. | | V23L617 | 391 |
| | | | | | | V23L617 | 392 |
| | | | | | | V23L617 | 393 |
| 6167 | 0100 6167 | PEX | SUBR | | ENTRY/EXIT | V23L617 | 394 |
| 6171 | 1400 | | LDN | 0 | CLEAR EXIT ADDRESS | V23L617 | 395 |
| 6172 | 3464 | | STD | CW+4 | | V23L617 | 396 |
| 6173 | 3063 | | LDD | CW+3 | | V23L617 | 397 |
| 6174 | 1377 | | SCN | 77 | | V23L617 | 398 |

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|--|-----------|------|------|--------------|------------------------------|---------|-----|
| 6175 | 3463 | | STD | CW+3 | | V23L617 | 399 |
| 6176 | 3074 | | LDD | CP | READ (P) | V23L617 | 400 |
| 6177 | 6001 | | CRD | T1 | | V23L617 | 401 |
| 6200 | 3055 | | LDD | RA | READ (RA) | V23L617 | 402 |
| 6201 | 1006 | | SHN | 6 | | V23L617 | 403 |
| 6202 | 6010 | | CRD | CM | | V23L617 | 404 |
| 6203 | 3012 | | LDD | CM+2 | ENTER ERROR FLAG | V23L617 | 405 |
| 6204 | 1377 | | SCN | 77 | | V23L617 | 406 |
| 6205 | 3346 | | LMD | EF | | V23L617 | 407 |
| 6206 | 3412 | | STD | CM+2 | | V23L617 | 408 |
| 6207 | 1277 | | LPN | 77 | | V23L617 | 409 |
| 6210 | 1103 | | LMN | ARET | | V23L617 | 410 |
| 6211 | 0412 | | ZJN | PEX1 | IF ARITHMETIC ERROR | V23L617 | 411 |
| 6212 | 3001 | | LDD | T1 | SET (P) IN (RA) | V23L617 | 412 |
| 6213 | 1014 | | SHN | 14 | | V23L617 | 413 |
| 6214 | 3302 | | LMD | T1+1 | | V23L617 | 414 |
| 6215 | 1014 | | SHN | 14 | | V23L617 | 415 |
| 6216 | 3411 | | STD | CM+1 | | V23L617 | 416 |
| 6217 | 1071 | | SHN | -6 | | V23L617 | 417 |
| 6220 | 1377 | | SCN | 77 | | V23L617 | 418 |
| 6221 | 3346 | | LMD | EF | | V23L617 | 419 |
| 6222 | 3412 | | STD | CM+2 | | V23L617 | 420 |
| 6223 | 3055 | PEX1 | LDD | RA | STORE (RA) | V23L617 | 421 |
| 6224 | 1006 | | SHN | 6 | | V23L617 | 422 |
| 6225 | 6210 | | CWD | CM | | V23L617 | 423 |
| 6226 | 0100 6167 | | LJM | PEXX | RETURN | V23L617 | 424 |
| | | | | | | | |
| ** PRP - PROCESS REPRIEVE. | | | | | | | |
| * ENTRY (CW - CW+4) = ERROR EXIT CONTROL WORD. | | | | | | | |
| * (T6 - T7) = ERROR EXIT ADDRESS. | | | | | | | |
| * EXIT (CW - CW+4) = UPDATED. | | | | | | | |
| * (T6 - T7) = ADDRESS TO SET (P) TO. | | | | | | | |
| * (A) = 0, REPRIEVE POSSIBLE. | | | | | | | |
| * USES CW+1, CW+3, T6, T7, T1 - T5, CN - CN+4. | | | | | | | |
| * CALLS DFM. | | | | | | | |
| * MACROS MONITOR. | | | | | | | |
| | | | | | | | |
| 6230 | 0100 6230 | PRP | SUBR | | ENTRY/EXIT | V23L617 | 441 |
| 6232 | 5046 4320 | | LDM | /PEF/TROF,EF | CHECK IF THIS ERROR SELECTED | V23L617 | 442 |
| 6234 | 5400 6240 | | STM | PRPA | | V23L617 | 443 |
| 6236 | 3365 | | LMD | RF | | V23L617 | 444 |
| 6237 | 2200 6237 | | LPC | * | | V23L617 | 445 |
| | | 6240 | PRPA | EQU | *-1 | V23L617 | 446 |
| 6241 | 0566 | | NJN | PRPX | IF OPTION NOT SELECTED | V23L617 | 447 |
| 6242 | 3006 | | LDD | T6 | | V23L617 | 448 |
| 6243 | 1006 | | SHN | 6 | | V23L617 | 449 |
| 6244 | 3155 | | ADD | RA | | V23L617 | 450 |
| 6245 | 1006 | | SHN | 6 | | V23L617 | 451 |

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| 6246 | 3107 | | ADD | T7 | | V23L617 | 453 | |
| 6247 | 6001 | | CRD | T1 | | V23L617 | 454 | |
| 6250 | 1601 | | ADN | 1 | READ CHECKSUM | V23L617 | 455 | |
| 6251 | 6025 | | CRD | CN | | V23L617 | 456 | |
| 6252 | 3006 | | LDD | T6 | SET FWA OF CHECK SUM AREA | V23L617 | 457 | |
| 6253 | 1014 | | SHN | 14 | | V23L617 | 458 | |
| 6254 | 3307 | | LMD | T7 | | V23L617 | 459 | |
| 6255 | 1621 | | ADN | 21 | | V23L617 | 460 | |
| 6256 | 3414 | | STD | CM+4 | | V23L617 | 461 | |
| 6257 | 1063 | | SHN | -14 | | V23L617 | 462 | |
| 6260 | 3413 | | STD | CM+3 | | V23L617 | 463 | |
| 6261 | 3003 | | LDD | T1+2 | SET WORD COUNT FOR CHECK SUM AREA | V23L617 | 464 | |
| 6262 | 1377 | | SCN | 77 | | V23L617 | 465 | |
| 6263 | 1006 | | SHN | 6 | | V23L617 | 466 | |
| 6264 | 3302 | | LMD | T1+1 | | V23L617 | 467 | |
| 6265 | 2277 | 3777 | LPC | 773777 | | 1AJ67 | 1 | |
| 6267 | 0503 | | ZJP | PRP1 | IF NO CHECKSUM REQUIRED | 1AJ67 | 2 | |
| 6272 | 3256 | | SBD | FL | | 1AJ67 | 3 | |
| 6273 | 1006 | | SHN | 6 | | V23L617 | 469 | |
| 6274 | 0631 | | PJN | PRP0.1 | IF LWA .GE. FL | 1AJ67 | 4 | |
| 6275 | 1014 | | SHN | 14 | | 1AJ67 | 5 | |
| 6276 | 3156 | | ADD | FL | | 1AJ67 | 6 | |
| 6277 | 1006 | | SHN | 6 | | 1AJ67 | 7 | |
| 6300 | 3214 | | SBD | CM+4 | | V23L617 | 470 | |
| 6301 | 0724 | | MJN | PRP0.1 | IF LWA .LT. FWA | 1AJ67 | 8 | |
| 6302 | 3412 | | STD | CM+2 | | V23L617 | 471 | |
| 6303 | 1063 | | SHN | -14 | | V23L617 | 472 | |
| 6304 | 3213 | | SBD | CM+3 | | V23L617 | 473 | |
| 6305 | 3411 | | STD | CM+1 | | V23L617 | 474 | |
| 6306 | 0717 | | MJN | PRP0.1 | IF LWA .LT. FWA | 1AJ67 | 9 | |
| 6307 | 3077 | | LDD | MA | SET PREVIOUS CHECKSUM FOR CALL | V23L617 | 475 | |
| 6310 | 6225 | | CWD | CN | | V23L617 | 476 | |
| 6311 | 1430 | | MONITOR | CKSM | CHECK PROGRAM CHECKSUM | V23L617 | 477 | |
| 6314 | 3014 | | LDD | CM+4 | | V23L617 | 478 | |
| 6315 | 0413 | | ZJN | PRP1 | IF GOOD CHECKSUM | V23L617 | 479 | |
| 6316 | 2000 | 6474 | LDC | =C* | REPRIEVE CHECKSUM BAD.* | V23L617 | 480 | |
| 6320 | 0200 | 0423 | PRP0 | RJM | DFM | 1AJ67 | 10 | |
| 6322 | 1401 | | LDN | 1 | | V23L617 | 482 | |
| 6323 | 0100 | 6230 | LJM | PRPX | RETURN | V23L617 | 483 | |
| | | | | | | V23L617 | 484 | |
| 6325 | 2000 | 6511 | PRP0.1 | LDC | =C* REPRIEVE BLOCK ERROR.* | 1AJ67 | 11 | |
| 6327 | 0370 | | UJN | PRP0 | ISSUE ERROR MESSAGE | 1AJ67 | 12 | |
| | | | | | | 1AJ67 | 13 | |
| 6330 | 3046 | | PRP1 | LDD | EF | SAVE ERROR FLAG FOR RESET | V23L617 | 485 |
| 6331 | 2300 | 4000 | LMC | 4000 | | V23L617 | 486 | |
| 6333 | 3461 | | STD | CW+1 | | V23L617 | 487 | |
| 6334 | 1440 | | LDN | 40 | SET FLAG FOR EXCHANGE PACKAGE ADDRESS | V23L617 | 488 | |
| 6335 | 3563 | | RAD | CW+3 | | V23L617 | 489 | |
| 6336 | 1421 | | LDN | 21 | SET PROPER VALUE OF (P) | V23L617 | 490 | |
| 6337 | 3507 | | RAD | T7 | | V23L617 | 491 | |
| 6340 | 1063 | | SHN | -14 | | V23L617 | 492 | |
| 6341 | 3506 | | RAD | T6 | | V23L617 | 493 | |
| 6342 | 1420 | | LDN | 20 | READ EXCHANGE PACKAGE | V23L617 | 494 | |
| 6343 | 3401 | | STD | T1 | | V23L617 | 495 | |
| 6344 | 3074 | | LDD | CP | | V23L617 | 496 | |
| 6345 | 6101 | 6734 | CRM | EXPA,T1 | | V23L617 | 497 | |
| 6347 | 5046 | 4367 | LDM | /PEF/TCEC,EF | SET EQUIVALENT ERROR FLAG | V23L617 | 498 | |

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|------|-------|----------------------|-------------------------------|------------|
| 525 | ERRNG | .2-.1+5-.3/500B*500B | BYTES LEFT AFTER LAST SECTOR | OVERFLOW.1 |
| 317 | ERRNG | .3/500B*500B-*.1-5 | BYTES LEFT IN LAST SECTOR | OVERFLOW.1 |
| 1017 | ERRNG | .4/500B*500B-*.1-5 | BYTES CAN BE ADDED TO OVERLAY | OVERFLOW.1 |
| 2 | ERRNG | .3/500B | SECTORS NEEDED FOR OVERLAY | OVERFLOW.1 |

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1412THE

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|---------|---|---------|------|
| QUAL | TCS | 1AJ | 5378 |
| IDENT | TCS,TCSX | V23L617 | 552 |
| COMMENT | 82/02/26. 95/06/23. 1AJ - TRANSLATE COMMAND. | V23L617 | 553 |
| | COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992. | 281L803 | 6 |

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***      TCS - TRANSLATE COMMAND.                V23L617    554
*
*      *TCS* TRANSLATES COMMANDS IN THE FOLLOWING MANNER.  V23L617    5384
*
*      (1.) READ THE NEXT COMMAND FROM:                V23L617    555
*              (A) THE COMMAND BUFFER IN THE CONTROL POINT AREA.  V23L617    5386
*              IF NECESSARY, THE BUFFER IS RELOADED FROM THE
*              *INPUT* FILE.                            1AJ        556
*              (B) THE MESSAGE BUFFER FOR *DIS* TYPE PROGRAMS.    V23L617    557
*              (C) A CM LOCATION FOR AN EXECUTING PROGRAM.        1AJ        5389
*
*      (2.) PROGRAMS LOADED FROM THE SYSTEM HAVE THEIR PARAMETERS 1AJ        5390
*      CRACKED WITH *KRONOS* SEPARATOR EQUIVALENCES (UNLESS A *SC 1AJ        5391
*      SYSEDIT DIRECTIVE WAS USED WHEN ENTERING THE PROGRAM INTO 1AJ        5392
*      THE SYSTEM).                                        1AJ        5393
*
*      LOCAL FILE PROGRAM LOADS HAVE THEIR PARAMETERS CRACKED 1AJ        5394
*      WITH *SCOPE* SEPARATOR EQUIVALENCES (UNLESS A */* PREFIX 1AJ        5395
*      CHARACTER EXISTS ON THE COMMAND).                  1AJ        5396
*
*      (A) *KRONOS* PARAMETER CRACKING-                  1AJ        5397
*      DELETE ALL SPACES IMBEDDED WITHIN THE COMMAND,      1AJ        5398
*      UP TO THE CHARACTER *.* OR *)*. ANY CHARACTER      V23L617    5399
*      NOT IN THE STANDARD *FORTRAN* SET (I.E. > @ ; ETC) 1AJ        5400
*      ARE NOT ALLOWED WITHIN THE COMMAND. HOWEVER,      V23L617    5401
*      THEY MAY BE USED IN THE COMMENT.                  1AJ        5402
*
*      NOTE - A SEPARATOR CHARACTER IS ONE OF THE SET    1AJ        5403
*      +- / = , ( $                                     1AJ        5404
*
*      (B) *SCOPE* PARAMETER CRACKING-                   1AJ        5405
*      SPACES ARE TREATED AS SEPARATORS. ALL SPECIAL    V23L617    5406
*      CHARACTERS ARE TRANSLATED TO A 4 BIT CODE.        1AJ        5407
*
*      (3.) SEARCH THE LIST OF SPECIAL COMMAND NAMES      1AJ        5408
*      FOR A MATCH WITH THE COMMAND BEING PROCESSED.    1AJ        5409
*      (CTIME, RTIME OR STIME)                           1AJ        5410
*
*      (4.) EXTRACT THE THE FIRST 7 OR LESS CHARACTERS FROM THE 1AJ        5411
*      COMMAND UP TO A SEPARATOR CHARACTER AND SEARCH THE FILE 1AJ        5412
*      NAME TABLE FOR A FILE ASSIGNED TO THIS JOB WITH THIS NAME. 1AJ        5413
*      IF A FIND IS MADE, THE FIELD LENGTH WILL BE RESORED IF 1AJ        5414
*      DIFFERENT FROM THE AMOUNT SET BY THE LAST *RFL* COMMAND 1AJ        5415
*      OR BY THE LAST CALL TO *CPM* TO SET RUNNING FIELD LENGTH. V23L617    5416
*      IF THE RUNNING FIELD LENGTH IS ZERO, A SYSTEM DEFINED 1AJ        5417
*      FIELD LENGTH (SYSDEF = 50000B) IS USED AS INITIAL FL. 1AJ        5418
*      IF SUCH A FILE IS FOUND WHICH IS ON A MASS STORAGE DEVICE, 1AJ        5419
*      AND IS IN ABSOLUTE CODE FORMAT, THE LOADER IS CALLED 1AJ        5420
*      TO LOAD AND EXECUTE IT. IF THE FILE DOES NOT RESIDE ON 1AJ        5421

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| * | MASS STORAGE, THE JOB IS ABORTED. IF THE FILE IS IN | 1AJ | 5432 |
| * | RELOCATABLE CODE FORMAT, CONTROL IS TRANSFERED TO THE | 1AJ | 5433 |
| * | RELOCATABLE LOADER. THE ARGUMENTS FOR THE PROGRAM CALL | 1AJ | 5434 |
| * | ARE EXTRACTED FROM THE COMMAND AND STORED IN | V23L617 | 565 |
| * | THE ARGUMENT REGION OF CENTRAL MEMORY, (RA+2 - RA+N) | 1AJ | 5436 |
| * | THE CPU IS REQUESTED TO BEGIN EXECUTION OF THE PROGRAM. | 1AJ | 5437 |
| * | | 1AJ | 5438 |
| * | (5.) SEARCH THE CENTRAL LIBRARY FOR A PROGRAM WITH THE | 1AJ | 5439 |
| * | NAME ON THE COMMAND. IF SUCH A PROGRAM | V23L617 | 566 |
| * | IS FOUND AND THE PROGRAM CONTAINS AN *RFL=* ENTRY POINT, | 1AJ | 5441 |
| * | THE FIELD LENGTH WILL BE SET ACCORDINGLY. OTHERWISE IT WILL | 1AJ | 5442 |
| * | BE SET AS IN (4.) ABOVE. THEN THE REQUESTED PROGRAM WILL BE | 1AJ | 5443 |
| * | LOADED AND EXECUTION WILL BEGIN WITH THE ARGUEMENTS STORED | 1AJ | 5444 |
| * | AS IN (4.). | 1AJ | 5445 |
| * | | 1AJ | 5446 |
| * | (6.) IF THE COMMAND NAME IS A 3 CHARACTER NAME, WITH | V23L617 | 567 |
| * | THE FIRST CHARACTER AN ALPHA, SEARCH THE PP LIBRARY | 1AJ | 5448 |
| * | FOR A PROGRAM OF THIS NAME. IF FOUND, PLACE | 1AJ | 5449 |
| * | THIS NAME WITH UP TO 2 OCTAL ARGUMENTS AS A PP PROGRAM | 1AJ | 5450 |
| * | REQUEST AND EXIT TO THE PROGRAM. NO CHANGE WILL BE MADE IN | 1AJ | 5451 |
| * | THE JOB FIELD LENGTH. | 1AJ | 5452 |
| * | PP PROGRAM CALLS VIA COMMAND IS ONLY VALID FROM | V23L617 | 568 |
| * | SYSTEM ORIGIN OR IF THE CALLER HAS SYSTEM ORIGIN | 1AJ | 5454 |
| * | PRIVILEGES AND THE SYSTEM IS IN DEBUG MODE. | 1AJ | 5455 |
| * | | 1AJ | 5456 |
| * | (7.) IF NONE OF THE ABOVE, THE COMMAND IS DECLARED | V23L617 | 569 |
| * | INCORRECT AND THE JOB IS ABORTED. | V23L617 | 570 |
| *** | DAYFILE MESSAGES. | 1AJ | 5460 |
| * | | 1AJ | 5461 |
| * | | 1AJ | 5462 |
| * | * TCS INCORRECT REQUEST.* = TCS CALLED WITH AN INCORRECT | V23L617 | 571 |
| * | REQUEST. | V23L617 | 572 |
| * | | 1AJ | 5464 |
| * | * INCORRECT COMMAND.* = THE COMMAND COULD | V23L617 | 573 |
| * | NOT BE IDENTIFIED BY TCS. | 1AJ | 5466 |
| * | | 1AJ | 5467 |
| * | * TOO MANY ARGUMENTS.* = THE NUMBER OF ARGUMENTS ON THE | 1AJ | 5468 |
| * | COMMAND EXCEEDS THAT ALLOWED BY THE PROGRAM. | V23L617 | 574 |
| * | | 1AJ | 5470 |
| * | * FORMAT ERROR ON COMMAND.* = AN ERROR HAS BEEN | V23L617 | 575 |
| * | DETECTED IN THE FORMAT OF THE COMMAND. | V23L617 | 576 |
| * | | 1AJ | 5473 |
| * | * PROGRAM FILE EMPTY.* = A LOAD OF AN EMPTY DATA FILE WAS | 1AJ | 5474 |
| * | ATTEMPTED. | 1AJ | 5475 |
| * | | 1AJ | 5476 |
| * | * LOADER MISSING.* = EITHER *CALL* OR *LDR=* WERE | 1AJ | 5477 |
| * | NOT FOUND IN THE LIBRARY. | 1AJ | 5478 |
| * | | 1AJ | 5479 |
| * | * CHARGE COMMAND REQUIRED.* = A CHARGE COMMAND IS REQUIRED | V23L617 | 577 |
| * | BEFORE THE REQUESTED COMMAND CAN BE PROCESSED. | V23L617 | 578 |
| * | | 1AJ | 5483 |
| * | * BUFFER ARG. ERROR.* = CM ADDRESS IN CALL IS NOT < FL - WORD | 1AJ | 5484 |
| * | COUNT. | 1AJ | 5485 |

| | | | | | | | | |
|----|---|--|--|--|--|---------|------|----|
| 1 | * | | | | | 1AJ | 5486 | 1 |
| 2 | * | | | | | 1AJ | 5487 | 2 |
| 3 | * | | | | | 1AJ | 5488 | 3 |
| 4 | * | | | | | 1AJ | 5489 | 4 |
| 5 | * | | | | | 1AJ | 5490 | 5 |
| 6 | * | | | | | NS2031 | 3 | 6 |
| 7 | * | | | | | NS2031 | 4 | 7 |
| 8 | * | | | | | NS2031 | 5 | 8 |
| 9 | * | | | | | NS2031 | 6 | 9 |
| 10 | * | | | | | NS2031 | 7 | 10 |
| 11 | * | | | | | NS21000 | 442 | 11 |
| 12 | * | | | | | NS21000 | 443 | 12 |
| 13 | * | | | | | NS21000 | 444 | 13 |
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*
* * FL BEYOND MFL.* = REQUESTED FL EXCEEDS MFL.
*
* * FL TOO SHORT FOR PROGRAM.* = MINFL IN 54 TABLE .GT. FL.
*
* * INTERACTIVE JOB STEP, DUMP DISABLED.* = DUMP ATTEMPTED
  VIA A COMMAND FROM AN INTERACTIVE TERMINAL.
*
* * SECURE MEMORY, DUMP DISABLED.* = ATTEMPT TO
  DUMP SECURE MEMORY.
*
* *SHELL* PROGRAM NOT FOUND.* BASED ON THE *SHELL* PROGRAM
  LOAD PARAMETERS *TCS* COULD NOT SATISFY THE PROGRAM LOAD.

```

```

*** ACCOUNT FILE MESSAGES.
*
*
* *UEAU, 000000.000UNTS.* = UNITS OF RAW CP SECONDS FOR THE
  APPLICATION IN PROCESS.

```

```

*** OPERATOR MESSAGES.
*
*
* *WAITING FOR STORAGE.* = JOB PROCESSING IS WAITING FOR MEMORY
  TO BE MADE AVAILABLE.

```

```

** ROUTINES USED.
*
* *0BF* - BEGIN FILE.
* *0DF* - DROP SPECIAL ID FILES.

```

```

**** DIRECT LOCATION ASSIGNMENTS.
*
32 FN EQU AB FILE NAME
32 TN EQU AB TERMINAL NUMBER (COMPSTA)
33 TT EQU AB+1 - AB+2 TERMINAL TABLE ADDRESS (COMPSTA)
35 TA EQU AB+3 *IAF* RA (COMPSTA)
65 PF EQU 65 PROGRAM FORMAT
66 CA EQU 66 CHARACTER ADDRESS
67 KA EQU 67 KEYWORD START ADDRESS
****

```

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| Line | Code | Address | Label | Op | Op2 | Description | Op | Address |
|------|------|-----------|-----------------------------|---------|-----------|---------------------------------------|---------|---------|
| | ** | | TCS - MAIN ROUTINE. | | | | 1AJ | 5531 |
| | * | | | | | | 1AJ | 5532 |
| | * | | CALLS CGL, SCL, SPF, *3AC*. | | | | 1AJ92 | 1 |
| | * | | | | | | 1AJ | 5534 |
| | * | | MACROS EXECUTE. | | | | 1AJ | 5535 |
| | | | | | | | 1AJ | 5536 |
| | | | | | | | 1AJ | 5537 |
| 1100 | | 0100 1102 | TCSX | LJM | TCS | (REQUIRED FOR USE AS OVERLAY) | 1AJ | 5538 |
| 1100 | | | | | | | 1AJ | 5539 |
| 1102 | | 0100 7147 | TCS | LJM | INT | INITIALIZE *TCS* | 1AJ | 5540 |
| | | | | | | | 1AJ | 5541 |
| | | | | | | | 1AJ | 5542 |
| 1104 | | 0000 | TCSA | CON | 0 | CHARGE REQUIRED FLAG | 1AJ92 | 2 |
| | | | | | | | 1AJ92 | 3 |
| 1105 | | 3057 | TCS1 | LDD | FA | ENTRY | 1AJ92 | 4 |
| 1106 | | 0503 | | NJN | TCS2 | IF LOAD FROM CENTRAL LIBRARY | 1AJ92 | 5 |
| 1107 | | 0200 1262 | | RJM | CGL | CHECK GLOBAL LIBRARY | NS2268 | 3 |
| 1111 | | 0200 1426 | TCS2 | RJM | SCL | SEARCH CENTRAL LIBRARY | 1AJ92 | 6 |
| 1113 | | 0323 | | UJN | TCS6 | PROCESS INCORRECT COMMAND ERROR | 1AJ92 | 7 |
| | | | | | | | 1AJ92 | 8 |
| 1114 | | 3057 | TCS3 | LDD | FA | CHECK PROGRAM FILE | 1AJ92 | 9 |
| 1115 | | 0505 | | NJN | TCS4 | IF LOAD FROM CENTRAL LIBRARY | 1AJ92 | 10 |
| 1116 | | 0200 1311 | | RJM | SPF | SEARCH FOR PROGRAM FILE | 1AJ38 | 2 |
| | | | * | UJN | **2 | (*SHELL* LOCAL FILE LOAD DISABLED) | NS21000 | 448 |
| | | | | | | | NS21000 | 449 |
| 1120 | | 0200 1262 | TCSB | EQU | *-2 | | NS21000 | 449 |
| | | | | RJM | CGL | CHECK FOR GLOBAL LIBRARIES | NS2268A | 5 |
| | | | * | UJN | **2 | (*SHELL* GLOBAL FILE LOAD DISABLED) | NS21000 | 450 |
| | | | | | | | NS21000 | 451 |
| 1122 | | 0200 1426 | TCSC | EQU | *-2 | | NS21000 | 451 |
| 1124 | | 2000 0000 | TCS4 | RJM | SCL | SEARCH CENTRAL LIBRARY | 1AJ92 | 11 |
| | | | | LDC | ** | CHECK USER ACCESS | 1AJ92 | 12 |
| | | | | | | | 1AJ92 | 13 |
| 1126 | | 0404 | TCSD | EQU | *-1 | | 1AJ92 | 13 |
| 1127 | | 2000 0000 | | ZJN | TCS5 | IF SYSTEM PRIVILEGES ALLOWED | 1AJ92 | 14 |
| | | | | LDC | ** | CHECK ENGINEERING MODE | 1AJ92 | 15 |
| | | | | | | | 1AJ92 | 16 |
| 1131 | | 0505 | TCSE | EQU | *-1 | | 1AJ92 | 16 |
| 1132 | | 2036 0103 | | NJN | TCS6 | IF NOT ENGINEERING MODE OR NOT *CSOJ* | 1AJ92 | 17 |
| | | | TCS5 | EXECUTE | 3AC | | 1AJ92 | 18 |
| | | | | | | | 1AJ | 5575 |
| 1136 | | 1466 | TCS6 | LDN | ZERL | CLEAR *SHELL* CONTROL | 1AJ92 | 19 |
| 1137 | | 6010 | | CRD | CM | | NS21000 | 453 |
| 1140 | | 3055 | | NFA | SHCN | | NS21000 | 454 |
| 1143 | | 2400 | TCSF | PSN | | | 1AJ92 | 20 |
| | | | * | CWD | CM | (*SHELL* ABORT OPTION SET) | NS21000 | 456 |
| 1144 | | 2000 1572 | | LDC | /ERR/EM05 | * INCORRECT COMMAND.* | V23L617 | 592 |
| | | | | | | | 1AJ92 | 21 |
| | | | | | | | NS21000 | 459 |
| 1146 | | 0100 2723 | TCSG | LJM | ERR1 | PROCESS ERROR | 1AJ | 5577 |

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| | | | | | | | |
|------|-----------|------|------|---|--|---------|------|
| | | | ** | IST - ISSUE COMMAND TO DAYFILE. | | V23L617 | 593 |
| | | | * | | | 1AJ | 5580 |
| | | | * | EXIT TO *DPP* IF PROGRAM NOT LOADED. | | 1AJ | 5581 |
| | | | * | TO *PPR* IF ERROR FLAG SET. | | 1AJ | 5582 |
| | | | * | | | 1AJ | 5583 |
| | | | * | USES T2. | | 1AJ61 | 1 |
| | | | * | | | 1AJ61 | 2 |
| | | | * | CALLS CAT, DFM, ISD. | | 1AJ | 5584 |
| | | | * | | | 1AJ | 5585 |
| | | | * | MACROS MONITOR. | | 1AJ | 5586 |
| | | | | | | 1AJ | 5587 |
| | | | | | | 1AJ | 5588 |
| 1150 | 0200 2651 | | IST6 | RJM CAT CLEAR ADDRESS FOR *TCS* EXECUTE COMMAND | | V23L617 | 594 |
| | | | | | | 1AJ | 5590 |
| 1152 | 5000 1254 | | IST | LDM CSEB | | 1AJ | 5591 |
| | | | * | UJN IST1 (*SHELL* PROCESSING) | | NS21000 | 460 |
| 1154 | 1016 | | | SHN 21-3 | | 1AJ | 5592 |
| 1155 | 0716 | | | MJN IST1 IF SDM= SET | | 1AJ | 5593 |
| 1156 | 5000 4334 | | | LDM STMT | | 1AJ | 5594 |
| 1160 | 0413 | | | ZJN IST1 IF NO COMMAND | | V23L617 | 595 |
| 1161 | 1405 | | | LDN 5 WRITE COMMAND TO CP BUFFER | | 1AJ61 | 3 |
| 1162 | 3402 | | | STD T2 | | 1AJ61 | 4 |
| 1163 | 3074 | | | LDD CP | | 1AJ61 | 5 |
| 1164 | 1631 | | | ADN MS1W | | 1AJ61 | 6 |
| 1165 | 6302 4334 | | | CWM STMT,T2 | | 1AJ61 | 7 |
| 1167 | 2000 4334 | | | LDC STMT ISSUE COMMAND TO DAYFILE | | V23L617 | 596 |
| 1171 | 0200 3243 | | | RJM ISD | | 1AJ | 5597 |
| 1173 | 1400 | | IST1 | LDN 0 | | 1AJ | 5598 |
| | | 1173 | ISTA | EQU IST1 | | 1AJ | 5599 |
| | | | * | LDN 1 (*SHELL* ABORT OR COMMAND LIMIT) | | 1AJ62 | 1 |
| 1174 | 0406 | | | ZJN IST2 (START JOB STEP) | | 1AJ | 5600 |
| 1175 | 1403 | | | LDN RLJS IF NOT STARTING JOB STEP | | 1AJ | 5601 |
| 1176 | 3411 | | | STD CM+1 START JOB STEP | | 1AJ | 5602 |
| 1177 | 1475 | | | MONITOR RLMM | | 1AJ | 5603 |
| 1202 | 3046 | | IST2 | LDD EF | | 1AJ | 5604 |
| 1203 | 0415 | | | ZJN IST4 IF ERROR FLAG NOT SET | | 1AJ | 5605 |
| 1204 | 0200 0423 | | | RJM DFM ERROR MESSAGE TO DAYFILE | | 1AJ | 5606 |
| 1206 | 1406 | | ISTB | LDN PPET SET ERROR FLAG = PP ABORT | | 1AJ | 5607 |
| | | | * | LDN SYET (*SHELL* ABORT OR COMMAND LIMIT) | | 1AJ62 | 1 |
| | | | * | UJN IST4 (INCORRECT *DMP=* CALL) | | V23L617 | 597 |
| 1207 | 3411 | | | STD CM+1 | | 1AJ | 5610 |
| 1210 | 1454 | | | MONITOR CEFM | | 1AJ | 5611 |
| 1213 | 3074 | | IST3 | LDD CP STORE COMMAND POINTER | | V23L617 | 598 |
| 1214 | 1673 | | | ADN CSPW | | 1AJ | 5613 |
| 1215 | 6240 | | | CWD SP | | 1AJ | 5614 |
| 1216 | 0100 0257 | | | JMP PPR EXIT TO PP RESIDENT | | 1AJ | 5615 |
| | | | | | | 1AJ | 5616 |
| 1220 | 3065 | | IST4 | LDD PF CHECK PROGRAM FORMAT | | 1AJ | 5617 |
| 1221 | 0410 | | | ZJN IST5 IF PROGRAM NOT LOADED | | 1AJ | 5618 |
| 1222 | 1110 | | | LMN 10 | | 1AJ | 5619 |
| 1223 | 0511 | | | NJN DPP IF NOT PPU PROGRAM | | 1AJ | 5620 |
| 1224 | 3411 | | | STD CM+1 CLEAR JOB ADVANCEMENT FLAG | | 1AJ | 5621 |
| 1225 | 1463 | | ISTC | MONITOR JACM | | 1AJ | 5622 |
| 1230 | 0362 | | | UJN IST3 EXIT | | 1AJ | 5624 |
| | | | | | | 1AJ | 5625 |
| 1231 | 3074 | | IST5 | LDD CP STORE COMMAND POINTER | | V23L617 | 600 |
| 1232 | 1673 | | | ADN CSPW | | 1AJ | 5627 |

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| Line | Address | Label | Code | Comment | Address | Value |
|------|---------|-------|---------|--|---------|-------|
| 1233 | 6240 | * | CWD UJN | SP DPP DROP PPU | 1AJ | 5628 |
| | | | | | 1AJ | 5629 |
| | | | | | NS21000 | 461 |
| | | | | | NS21000 | 462 |
| | 16 | | ERRNG | 37+IST-IST1 JUMP OUT OF RANGE | NS21000 | 463 |
| | | ** | | DPP - DROP PP. | 1AJ | 5631 |
| | | * | | | 1AJ | 5632 |
| | | * | | EXIT TO *PPR*. | 1AJ | 5633 |
| | | * | | | 1AJ | 5634 |
| | | * | | MACROS MONITOR. | 1AJ | 5635 |
| | | | | | 1AJ | 5636 |
| | | | | | 1AJ | 5637 |
| 1234 | 1402 | | DPP | LDN DPPS | 1AJ | 5638 |
| 1235 | 3411 | | STD | CM+1 CLEAR JOB ADVANCE FLAG | 1AJ | 5639 |
| 1236 | 1463 | | DPPA | MONITOR JACM | 1AJ | 5640 |
| | | * | MONITOR | DPPM (IF *TCS* REQUEST) | V23L617 | 601 |
| 1241 | 0354 | | JMP | PPR EXIT TO PP RESIDENT | 1AJ | 5642 |
| | | ** | | CPP - CALL PP PROGRAM. | 1AJ | 5644 |
| | | * | | | 1AJ | 5645 |
| | | * | | ENTRY (A) = NAME OF PP PROGRAM TO BE CALLED. | 1AJ | 5646 |
| | | * | | | 1AJ | 5647 |
| | | * | | EXIT TO *PPR*. | 1AJ | 5648 |
| | | | | | 1AJ | 5649 |
| | | | | | 1AJ | 5650 |
| 1242 | 1014 | | CPP | SHN 14 SET PP NAME IN INPUT REGISTER | 1AJ | 5651 |
| 1243 | 3450 | | STD | IR | 1AJ | 5652 |
| 1244 | 1071 | | SHN | -6 | 1AJ | 5653 |
| 1245 | 3351 | | LMD | IR+1 | 1AJ | 5654 |
| 1246 | 1377 | | SCN | 77 | 1AJ | 5655 |
| 1247 | 3351 | | LMD | IR+1 | 1AJ | 5656 |
| 1250 | 3451 | | STD | IR+1 | 1AJ | 5657 |
| 1251 | 3075 | | LDD | IA STORE INPUT REGISTER | 1AJ | 5658 |
| 1252 | 6250 | | CWD | IR | 1AJ | 5659 |
| 1253 | 0365 | | JMP | PPR EXIT TO PP RESIDENT | 1AJ | 5660 |
| | | * | | *CSEB* LOCATED HERE FOR GLOBAL ACCESS. | NS2031 | 12 |
| | | | | | NS2031 | 13 |
| | | | | | NS2031 | 14 |
| 1254 | 5 | | CSEB | BSSZ 5 SPECIAL ENTRY POINT WORD | NS2031 | 15 |
| | | | | | | |
| | 1266 | | EOVL | EQU **5 LOAD ADDRESS FOR *3AM* | NS2031 | 17 |

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| | | | | | | | | | |
|----|----|------|------|------|---|---|--|--------|------|
| | ** | | | | | CGL - CHECK FOR GLOBAL LIBRARIES. | | NS2218 | 1 |
| | * | | | | | | | 1AJ | 5663 |
| | * | | | | | ENTRY (AB - AB+3) = 7 CHARACTER NAME LEFT JUSTIFIED. | | 1AJ | 5664 |
| 1 | * | | | | | | | 1AJ | 5665 |
| 2 | * | | | | | EXIT RETURN TO CALLER IF GLOBAL LIBRARY BIT IN *LB1W* | | 1AJ | 5666 |
| 3 | * | | | | | IS CLEAR OR THE ENTRY IS NOT FOUND. | | 1AJ | 5667 |
| 4 | * | | | | | TO *SSC* IF PROGRAM RELOCATABLE OR *CCL* PROC. | | 1AJ | 5668 |
| 5 | * | | | | | TO *SCL* TO CHECK FIELD LENGTH FOR ABS LOAD. | | 1AJ | 5669 |
| 6 | * | | | | | | | 1AJ | 5670 |
| 7 | * | | | | | USES CM - CM+4. | | 1AJ | 5671 |
| 8 | * | | | | | | | 1AJ | 5672 |
| 9 | * | | | | | CALLS SCL, *3AI*. | | 1AJ | 5673 |
| 10 | * | | | | | | | 1AJ | 5674 |
| 11 | * | | | | | MACROS EXECUTE. | | 1AJ | 5675 |
| 12 | | | | | | | | 1AJ | 5676 |
| 13 | | | | | | | | 1AJ | 5677 |
| 14 | | 1261 | 0100 | 1261 | | CGL SUBR ENTRY/EXIT | | 1AJ | 5678 |
| 15 | | 1263 | 3074 | | | LDD CP | | 1AJ | 5679 |
| 16 | | 1264 | 2100 | 0112 | | ADC LB1W | | 1AJ | 5680 |
| 17 | | 1266 | 6010 | | | CRD CM GET FIRST LOADER CONTROL WORD | | 1AJ | 5681 |
| 18 | | 1267 | 3010 | | | LDD CM | | 1AJ | 5682 |
| 19 | | 1270 | 1007 | | | SHN 21-12 CHECK GLOBAL LIBRARY BIT | | 1AJ | 5683 |
| 20 | | 1271 | 0667 | | | PJN CGLX IF NO GLOBAL DIRECTORY TO SEARCH | | 1AJ | 5684 |
| 21 | | 1272 | 2036 | 0111 | | EXECUTE 3AI SEARCH GLOBAL LIBRARY DIRECTORY | | 1AJ | 5685 |
| 22 | | 1276 | 2000 | 0000 | | LDC ** SYSTEM CALL FROM *3AI/SGD* | | 1AJ | 5686 |
| 23 | | | | 1277 | | CGLA EQU *-1 | | 1AJ | 5687 |
| 24 | | 1300 | 0100 | 1261 | | LJM CGLX ENTRY NOT FOUND, RETURN | | 1AJ | 5688 |
| 25 | | | | 1301 | | CGLB EQU *-1 | | 1AJ | 5689 |
| 26 | | | | | * | LJM SSC IF PROGRAM IS RELOCATABLE OR *CCL* | | 1AJ | 5690 |
| 27 | | | | | * | RJM SCL PROGRAM IS ABSOLUTE | | 1AJ | 5691 |
| 28 | | | | | | | | 1AJ92 | 22 |
| 29 | | | | | | | | 1AJ92 | 23 |
| 30 | | 1302 | 0000 | 0000 | | CGLC CON 0,0 RANDOM INDEX SET BY *SGD* | | 1AJ92 | 24 |
| 31 | | | | | | | | | |
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|------|----|------|------|------|---------|--|--|---------|------|
| | ** | | | | | SPF - SEARCH FOR PROGRAM FILE. | | 1AJ | 5694 |
| | * | | | | | | | 1AJ | 5695 |
| | * | | | | | ENTRY (AB - AB+3) = 7 CHARACTER NAME LEFT JUSTIFIED. | | 1AJ | 5696 |
| | * | | | | | | | 1AJ | 5697 |
| | * | | | | | EXIT IF FILE NOT FOUND, RETURN. | | 1AJ | 5698 |
| | * | | | | | IF FILE FOUND, EXIT TO *SSC*. | | 1AJ | 5699 |
| | * | | | | | TO *ERR1* IF FILE NOT ON MASS STORAGE OR EMPTY. | | 1AJ89 | 1 |
| | * | | | | | | | 1AJ | 5700 |
| | * | | | | | USES CM - CM+4, FS - FS+4, CW - CW+5. | | 1AJ28 | 1 |
| | * | | | | | | | 1AJ | 5702 |
| | * | | | | | CALLS SAF. | | 1AJ | 5703 |
| | * | | | | | | | 1AJ | 5704 |
| | * | | | | | MACROS NFA. | | 1AJ | 5705 |
| | | | | | | | | 1AJ | 5706 |
| | | | | | | | | 1AJ89 | 2 |
| 1304 | | 2000 | 2247 | SPF2 | LDC | /ERR/EM27 | * PROGRAM FILE EMPTY.* | 1AJ89 | 3 |
| 1306 | | 0100 | 2723 | | LJM | ERR1 | EXIT TO PROCESS ERROR | 1AJ89 | 4 |
| | | | | | | | | 1AJ | 5707 |
| 1310 | | 0100 | 1310 | SPF | SUBR | | ENTRY/EXIT | 1AJ | 5708 |
| 1312 | | 0200 | 6566 | | RJM | SAF | SEARCH FOR ASSIGNED FILE | 1AJ | 5709 |
| 1314 | | 0473 | | | ZJN | SPFX | IF NOT FOUND | 1AJ | 5710 |
| 1315 | | 3055 | | | NFA | FA,R | READ FNT | 1AJ | 5713 |
| 1320 | | 6020 | | | CRD | FS | | 1AJ | 5714 |
| 1321 | | 1601 | | | ADN | FSTL | SET EQUIPMENT AND FIRST TRACK | 1AJ28 | 2 |
| 1322 | | 6061 | | | CRD | CW+1 | | 1AJ28 | 3 |
| 1323 | | 3061 | | | LDD | CW+1 | CHECK FOR FILE ON MASS STORAGE | NS2218 | 3 |
| 1324 | | 0200 | 0245 | | SFA | EST | | NS2218 | 4 |
| | | | | | ADK | EQDE | | NS2218 | 5 |
| 1326 | | 6010 | | | CRD | CM | | NS2218 | 6 |
| 1327 | | 3010 | | | LDD | CM | | NS2218 | 7 |
| 1330 | | 1006 | | | SHN | 21-13 | | NS2218 | 8 |
| 1331 | | 0652 | | | PJN | SPF2 | IF NOT MASS STORAGE | 1AJ89 | 5 |
| 1332 | | 3063 | | | LDD | CW+1+2 | | 1AJ89 | 6 |
| 1333 | | 0450 | | | ZJN | SPF2 | IF NO CURRENT TRACK | 1AJ89 | 7 |
| 1334 | | 3024 | | | LDD | FS+4 | | 1AJ | 5715 |
| 1335 | | 1277 | | | LPN | 77 | | 1AJ | 5716 |
| 1336 | | 1101 | | | LMN | UPST | | 1AJ13 | 1 |
| 1337 | | 0450 | | | ZJN | SPFX | IF USER FILE PRIVACY SET | 1AJ13 | 2 |
| 1340 | | 1107 | | | LMN | AAST&UPST | | 1AJ13 | 3 |
| 1341 | | 0513 | | | NJN | SPF1 | IF NOT APPLICATION ACCOUNTING FILE | 1AJ | 5718 |
| 1342 | | 3074 | | | LDD | CP | READ APPLICATION ACCOUNTING CONTROL WORD | 1AJ | 5719 |
| 1343 | | 1662 | | | ADN | FPFW | | 1AJ | 5720 |
| 1344 | | 6010 | | | CRD | CM | | 1AJ | 5721 |
| 1345 | | 3010 | | | LDD | CM | | 1AJ | 5722 |
| 1346 | | 2100 | 0400 | | ADC | 400 | SET VALIDATED FOR APPLICATION ACCOUNTING | 1AJ | 5723 |
| 1350 | | 3410 | | | STD | CM | | 1AJ | 5724 |
| 1351 | | 3074 | | | LDD | CP | REWRITE APPLICATION CONTROL WORD | 1AJ | 5725 |
| 1352 | | 1662 | | | ADN | FPFW | | 1AJ | 5726 |
| 1353 | | 6210 | | | CWD | CM | | 1AJ | 5727 |
| 1354 | | 2000 | 0302 | SPF1 | LDC | UJNI+SCL5-SCLD | NO CHANGE IN PARAMETER CRACKING | 1AJ13 | 4 |
| 1356 | | 5400 | 1520 | | STM | SCLD | | 1AJ13 | 5 |
| 1360 | | 1400 | | | LDN | LDR= | SET SYSTEM CALL = *LDR=* | 1AJ13 | 6 |
| 1361 | | 0100 | 3575 | SPFA | LJM | SSC | SET SYSTEM CALL | 242L642 | 368 |
| | | | | * | PSNI | (*SHELL* FILE LOAD) | | 1AJ28 | 5 |
| | | | | | | | | 1AJ28 | 6 |
| 1363 | | 2036 | 0105 | | EXECUTE | 3AE | LOAD COPY ROUTINES | 1AJ28 | 7 |
| 1367 | | 2000 | 6000 | | LDC | 6000 | SET FL CONTROL TO JOB STEP FL | 1AJ28 | 8 |

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|------|-----------|------|---------|-----------|---|--------------------------------------|---------|------|
| 1371 | 3460 | | STD | CW | | | 1AJ28 | 9 |
| 1372 | 1400 | | LDN | 0 | SET LOCAL FILE LOAD | | 1AJ28 | 10 |
| 1373 | 5400 5260 | | STM | /3AE/SLPD | | | 1AJ28 | 11 |
| 1375 | 3420 | | STD | FS | | | 1AJ28 | 12 |
| 1376 | 1401 | | LDN | FSMS | | | 1AJ28 | 13 |
| 1377 | 3464 | | STD | CW+4 | | | 1AJ28 | 14 |
| 1400 | 3062 | | LDD | CW+2 | | | 1AJ28 | 15 |
| 1401 | 3424 | | STD | FS+4 | | | 1AJ28 | 16 |
| 1402 | 2000 6764 | | LDC | /3AE/LDU | SET CALL TO *LDU* | | 1AJ28 | 17 |
| 1404 | 5400 1705 | | STM | BCPB | | | 1AJ28 | 18 |
| 1406 | 0100 1522 | | LJM | SCL7 | LOAD PROGRAM | | 1AJ28 | 20 |
| | | | ** | SCL | SEARCH CENTRAL LIBRARY. | | 1AJ | 5731 |
| | | | * | | | | 1AJ | 5732 |
| | | | * | ENTRY | (AB - AB+3) = 7 CHARACTER NAME LEFT JUSTIFIED. | | 1AJ | 5733 |
| | | | * | | | | 1AJ | 5734 |
| | | | * | EXIT | RETURN IF PROGRAM NOT FOUND. | | 1AJ | 5735 |
| | | | * | | (FA) = 0. | | 1AJ | 5736 |
| | | | * | | TO *BCP* IF FOUND. | | 1AJ | 5737 |
| | | | * | | TO *SSC* IF SYSTEM CALL. | | 1AJ | 5738 |
| | | | * | | | | 1AJ | 5739 |
| | | | * | ERROR | TO *ERR1* IF RFL=/MFL= .GT. MFL. | | 1AJ | 5740 |
| | | | * | | TO *ERR8* IF CHARGE REQUIRED. | | V23L617 | 602 |
| | | | * | | | | 1AJ | 5742 |
| | | | * | USES | FA, CM - CM+4, CN - CN+4, CW - CW+4, AB - AB+4. | | 1AJ | 5743 |
| | | | * | | | | 1AJ | 5744 |
| | | | * | CALLS | CLD, CSE, *3AE*. | | 1AJ | 5745 |
| | | | * | | | | 1AJ | 5746 |
| | | | * | MACROS | EXECUTE. | | 1AJ | 5747 |
| | | | | | | | 1AJ | 5748 |
| 1410 | 5000 1104 | | SCL14 | LDM | TCSA | | 1AJ | 5749 |
| 1412 | 0413 | | ZJN | SCLX | IF NO CHARGE REQUIRED | | V23L617 | 603 |
| 1413 | 2000 1605 | | SCL14.1 | LDC | /ERR/EM06 | * CHARGE COMMAND REQUIRED.* | 1AJ90 | 1 |
| 1415 | 0100 2723 | | LJM | ERR1 | PROCESS ERROR | | NS2031 | 19 |
| | | | | | | | 1AJ | 5753 |
| 1417 | 1466 | | SCL15 | LDN | ZERL | CLEAR SPECIAL CALL | 1AJ | 5754 |
| 1420 | 6010 | | | CRD | CM | | 1AJ | 5755 |
| 1421 | 3074 | | | LDD | CP | | 1AJ | 5756 |
| 1422 | 2100 0106 | | | ADC | SPCW | | 1AJ | 5757 |
| 1424 | 6210 | | | CWD | CM | | 1AJ | 5758 |
| | | | | | | | 1AJ | 5759 |
| 1425 | 0100 1425 | | SCL | SUBR | ENTRY/EXIT | | 1AJ | 5760 |
| 1427 | 2036 0105 | | | EXECUTE | 3AE | LOAD COPY ROUTINES | 1AJ | 5761 |
| 1433 | 1400 | | SCLE | LDN | 0 | CLEAR FNT ORDINAL | NS21000 | 466 |
| | | | * | UJN | SCLX | (*SHELL* SYSTEM FILE LOAD DISABLED) | NS21000 | 467 |
| 1434 | 3457 | | | STD | FA | | 1AJ | 5763 |
| | | | * | LJM | SCL7 | SET BY *3AI* | 1AJ | 5764 |
| | | 1433 | SCLA | EQU | *-2 | | 1AJ | 5765 |
| 1435 | 0200 6512 | | RJM | /3AE/CLD | SEARCH CLD | | 1AJ | 5766 |
| 1437 | 0450 | | SCLB | ZJN | SCL14 | IF NOT FOUND | 1AJ | 5767 |
| | | | * | ZJN | SCLX | (TERMINATE IF POSSIBLE CONTINUATION) | NS2050 | 1 |
| | | | * | | | COMMAND AND *ARG=* NOT PRESENT) | V23L617 | 605 |
| | | | * | ZJN | SCL15 | (*DMP=* PROGRAM INITIALIZED) | 1AJ | 5770 |

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|------|------|------|--------|----------------------------|------------------------------------|--------------------------------|---------|------|
| 1440 | 6060 | | CRD | CW | READ CONTROL WORD | 1AJ | 5771 | |
| 1441 | 1701 | | SBN | 1 | | 1AJ | 5772 | |
| 1442 | 6025 | | CRD | CN | | 1AJ | 5773 | |
| 1443 | 2000 | 0312 | LDC | UJNI+/3AE/SPF4.2-/3AE/SPFB | | 1AJ92 | 25 | |
| 1445 | 5400 | 6243 | STM | /3AE/SPFB | INDICATE SYSTEM FILE LOAD | 1AJ92 | 26 | |
| 1447 | 3077 | | LDD | MA | SET ENTRY POINT NAME | 1AJ | 5774 | |
| 1450 | 6232 | | CWD | AB | | 1AJ | 5775 | |
| 1451 | 6170 | 6503 | CRM | /3AE/CL,ON | | 1AJ | 5776 | |
| 1453 | 3062 | | LDD | CW+2 | SET ALTERNATE EQUIPMENT | 1AJ | 5777 | |
| 1454 | 3405 | | STD | T5 | | 1AJ | 5778 | |
| 1455 | 3030 | | LDD | CN+3 | SET ADDRESS ON SYSTEM FILE | 1AJ | 5779 | |
| 1456 | 5400 | 6507 | STM | /3AE/CL+4 | | 1AJ | 5780 | |
| 1460 | 3031 | | LDD | CN+4 | | 1AJ | 5781 | |
| 1461 | 5400 | 6510 | STM | /3AE/CL+5 | | 1AJ | 5782 | |
| 1463 | 3061 | | LDD | CW+1 | | 1AJ | 5783 | |
| 1464 | 1237 | | LPN | 37 | | 1AJ | 5784 | |
| 1465 | 1103 | | LMN | RLRT | | 1AJ | 5785 | |
| 1466 | 0503 | | NJN | SCL1 | IF NOT RELOCATABLE ROUTINE | 1AJ | 5786 | |
| 1467 | 1410 | | LDN | SLDR | SET SYSTEM CALL = *SLDR=* | 1AJ | 5787 | |
| 1470 | 0305 | | UJN | SCL1.1 | CONTINUE | NS2050 | 2 | |
| | | | | | | 1AJ | 5789 | |
| 1471 | 1123 | | SCL1 | LMN | PRRT&RLRT | 1AJ106 | 2 | |
| 1472 | 0512 | | NJN | SCL2 | IF NOT A *CCL* PROCEDURE | 1AJ | 5791 | |
| 1473 | 1404 | | LDN | BEGI | SET SYSTEM CALL = *BEGIN* | 1AJ | 5792 | |
| 1474 | 0306 | | UJN | SCL1.2 | CONTINUE | 1AJ55 | 1 | |
| | | | | | | 1AJ55 | 2 | |
| 1475 | 3400 | | SCL1.1 | STD | T0 | NS2050 | 3 | |
| 1476 | 5000 | 1506 | LDM | SCLC | | NS2050 | 4 | |
| 1500 | 0413 | | ZJN | SCL3 | IF POSSIBLE CONTINUATION COMMAND | V23L617 | 606 | |
| 1501 | 3000 | | LDD | T0 | | NS2050 | 6 | |
| 1502 | 0100 | 3575 | SCL1.2 | LJM | SSC | SET SYSTEM CALL | 1AJ55 | 3 |
| | | | | | | 1AJ | 5794 | |
| 1504 | 0200 | 2354 | SCL2 | RJM | CSE | CHECK FOR SPECIAL ENTRY POINTS | 1AJ | 5795 |
| 1506 | 0307 | | SCLC | UJN | SCL4 | NO CONTINUATION COMMAND | V23L617 | 607 |
| | | | * | PSN | (IF CONTINUATION COMMAND POSSIBLE) | V23L617 | 608 | |
| 1507 | 5000 | 1254 | LDM | CSEB | | 1AJ | 5798 | |
| 1511 | 1014 | | SHN | 21-5 | | 1AJ | 5799 | |
| 1512 | 0703 | | MJN | SCL4 | IF *ARG=* PROCESS | 1AJ | 5800 | |
| 1513 | 0100 | 1425 | SCL3 | LJM | SCLX | RETURN | 1AJ | 5801 |
| | | | | | | 1AJ | 5802 | |
| 1515 | 3061 | | SCL4 | LDD | CW+1 | | 1AJ | 5803 |
| 1516 | 1010 | | SHN | 21-11 | | 1AJ | 5804 | |
| 1517 | 0703 | | MJN | SCL5 | IF SCOPE FORMAT | 1AJ | 5805 | |
| 1520 | 5600 | 2315 | SCLD | AOM | ARGA | SET KRONOS FORMAT | 1AJ | 5806 |
| | | | * | UJN | SCL5 | (IF FILE LOAD) | 1AJ | 5807 |
| | | | | | | NS2050 | 8 | |
| 1522 | | | SCL5 | BSS | 0 | NS2050 | 9 | |
| 1522 | 5000 | 1104 | SCL7 | LDM | TCSA | CHECK CHARGE REQUIRED | 1AJ90 | 2 |
| 1524 | 0403 | | NJP | SCL14.1 | IF CHARGE REQUIRED | 1AJ90 | 3 | |
| 1527 | 3074 | | LDD | CP | READ FL CONTROL WORD | 1AJ90 | 4 | |
| 1530 | 1663 | | ADN | FLCW | | 1AJ | 5822 | |
| 1531 | 6010 | | CRD | CM | | 1AJ | 5823 | |
| 1532 | 3011 | | LDD | CM+1 | CLEAR ONE JOB STEP RFL FLAG | 1AJ | 5824 | |
| 1533 | 2200 | 3777 | LPC | 3777 | | 1AJ | 5825 | |
| 1535 | 3411 | | STD | CM+1 | | 1AJ | 5826 | |
| 1536 | 3060 | | LDD | CW | CHECK CLD FL SPECIFICATION | 1AJ | 5827 | |
| 1537 | 0503 | | NJN | SCL8 | IF FL SPECIFIED | 1AJ | 5828 | |

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| 1540 | 0100 1617 | LJM | BCP | BEGIN CENTRAL PROGRAM | 1AJ | 5829 |
| | | | | | 1AJ | 5830 |
| 1542 | 2200 3777 | SCL8 | LPC | 3777 | 1AJ52 | 1 |
| 1544 | 5400 3471 | STM | RQSD | | 1AJ | 5832 |
| 1546 | 3060 | LDD | CW | CHECK FL REQUEST TYPE | 1AJ | 5833 |
| 1547 | 1006 | SHN | 21-13 | | 1AJ | 5834 |
| 1550 | 0633 | PJN | SCL11.1 | IF RFL=/DEFL | 1AJ52 | 2 |
| 1551 | 3060 | LDD | CW | SET MFL= VALUE | 1AJ52 | 3 |
| 1552 | 2200 1777 | LPC | 1777 | | 1AJ52 | 4 |
| 1554 | 5400 3471 | STM | RQSD | | 1AJ52 | 5 |
| 1556 | 3060 | LDD | CW | | 1AJ52 | 6 |
| 1557 | 1007 | SHN | 21-12 | | 1AJ52 | 7 |
| 1560 | 0617 | PJN | SCL11 | IF USING MFL= DEFINED FIELD LENGTH | 1AJ | 5837 |
| 1561 | 3061 | LDD | CW+1 | CHECK 5400 TABLE FLAG | 1AJ | 5838 |
| 1562 | 1012 | SHN | 21-7 | | 1AJ | 5839 |
| 1563 | 0605 | PJN | SCL9 | IF NO 5400 TABLE CHECK | 1AJ | 5840 |
| 1564 | 2000 0410 | LDC | ZJNI+BCP7-BCPC | | 1AJ | 5841 |
| 1566 | 5400 1711 | STM | BCPC | SET 54 TABLE CHECK INSTRUCTION | 1AJ | 5842 |
| 1570 | 3060 | SCL9 | LDD | CW | V23L617 | 609 |
| 1571 | 2200 1777 | LPC | 1777 | | 1AJ | 5846 |
| 1573 | 3211 | SBD | CM+1 | | 1AJ | 5847 |
| 1574 | 0613 | PJN | SCL13 | IF LAST JOB COMMAND FL .LT. MFL= | V23L617 | 610 |
| 1575 | 3011 | LDD | CM+1 | | 1AJ110 | 1 |
| 1576 | 0307 | UJN | SCL12 | SET LAST JOB COMMAND FL | V23L617 | 611 |
| | | | | | 1AJ | 5851 |
| 1577 | 3060 | SCL11 | LDD | CW | 1AJ | 5852 |
| 1600 | 2200 1777 | LPC | 1777 | SET MFL= FL | 1AJ | 5853 |
| 1602 | 3256 | SBD | FL | | 1AJ | 5854 |
| 1603 | 0604 | SCL11.1 | PJN | SCL13 | 1AJ52 | 8 |
| 1604 | 3056 | LDD | FL | IF LAST JOB CARD FL .LT. MFL= | 1AJ | 5856 |
| 1605 | 5400 3471 | SCL12 | STM | RQSD | V23L617 | 612 |
| 1607 | 3010 | SCL13 | LDD | CM | 1AJ | 5858 |
| 1610 | 5200 3471 | SBD | RQSD | CHECK REQUESTED FL AGAINST MFL | 1AJ | 5859 |
| 1612 | 0605 | PJN | BCP | IF REQUESTED FL .LE. MFL | 1AJ | 5860 |
| 1613 | 2000 1501 | LDC | /ERR/EM01 | * FL BEYOND MFL.* | NS2031 | 20 |
| 1615 | 0100 2723 | LJM | ERR1 | PROCESS ERROR | 1AJ | 5862 |
| | | | | | 1AJ | 5863 |
| | 31 | ERRNG | 37+SCLX-SCLE | JUMP OUT OF RANGE | NS21000 | 468 |
| | 17 | ERRNG | 37+SCL15-SCLB | IF JUMP OUT OF RANGE | 1AJ | 5864 |
| | 25 | ERRNG | 37+SCLX-SCLB | IF JUMP OUT OF RANGE | 1AJ | 5865 |
| | 41 | ERRNG | 37+SCL5-SCLD | IF JUMP OUT OF RANGE | 1AJ | 5866 |

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| | ** | | | | BCP - BEGIN CENTRAL PROGRAM. | 1AJ | 5868 |
| | * | | | | | 1AJ | 5869 |
| | * | | | | ENTRY (FA) = FST ADDRESS. | 1AJ | 5870 |
| 1 | * | | | | (AB - AB+4) = PROGRAM NAME. | 1AJ | 5871 |
| 2 | * | | | | (CW - CW+4) = LIBRARY CONTROL WORD. | 1AJ | 5872 |
| 3 | * | | | | (BCPJ - BCPJ+1) = JSN (FOR *0AU*). | 1AJ | 5873 |
| 4 | * | | | | (BCPJ+4) = 6/SC,6/0 (FOR *0AU*). | 1AJ | 5874 |
| 5 | * | | | | | 1AJ | 5875 |
| 6 | * | | | | EXIT TO *IST* AT COMPLETION OF LOAD. | 1AJ | 5876 |
| 7 | * | | | | TO */3AF/SDP* IF TO INITIATE *DMP=* PROGRAM. | 1AJ | 5877 |
| 8 | * | | | | | 1AJ | 5878 |
| 9 | * | | | | ERROR TO *ERR1* IF PREVIOUS ERROR PENDING. | 1AJ14 | 1 |
| 10 | * | | | | | 1AJ | 5880 |
| 11 | * | | | | USES CA, IR+4, T1, T2, T7, AB - AB+4, CM - CM+4, CN - CN+4. | NS2719 | 26 |
| 12 | * | | | | | 1AJ | 5882 |
| 13 | * | | | | CALLS ARG, ASN, CAT, CLX, CST, /3AE/LCP, /3AE/LDU, | 1AJ | 5883 |
| 14 | * | | | | RQS, STK, /3AF/TCA, *0AU*, *3AF*, *3AH*. | NS2719 | 27 |
| 15 | * | | | | | 1AJ | 5885 |
| 16 | * | | | | MACROS EXECUTE. | 1AJ | 5886 |
| 17 | | | | | | 1AJ | 5887 |
| 18 | | | | | | 1AJ | 5888 |
| 19 | | 1617 | | | BCP ENTRY | 1AJ14 | 2 |
| 20 | | 1617 | 0200 3436 | | RJM RQS REQUEST STORAGE | NS2388 | 76 |
| 21 | | 1621 | 1466 | | LDN ZERL CLEAR *CYBER LOADER* FIELDS | 1AJ | 5890 |
| 22 | | 1622 | 6010 | | CRD CM | 1AJ | 5891 |
| 23 | | 1623 | 3055 | | LDD RA | 1AJ | 5892 |
| 24 | | 1624 | 1006 | | SHN 6 | 1AJ | 5893 |
| 25 | | 1625 | 1665 | | ADN LWPR | 1AJ | 5894 |
| 26 | | 1626 | 6210 | | CWD CM | 1AJ | 5895 |
| 27 | | 1627 | 1601 | | ADN FWPR-LWPR | 1AJ | 5896 |
| 28 | | 1630 | 6210 | | CWD CM | 1AJ | 5897 |
| 29 | | 1631 | 5000 1254 | | LDM CSEB | 1AJ | 5898 |
| 30 | | 1633 | 1015 | | SHN 21-4 | 1AJ | 5899 |
| 31 | | 1634 | 0603 | | PJN BCP1 IF NOT *DMP=* ENTRY POINT | 1AJ | 5900 |
| 32 | | 1635 | 0100 1666 | | LJM BCP4 LOAD CENTRAL PROGRAM | 1AJ | 5901 |
| 33 | | | | * | LJM BCP3 (COMMAND LOAD AFTER *DMP=* ROLLOUT) | V23L617 | 613 |
| 34 | | | | | | 1AJ | 5903 |
| 35 | * | | | | ENTER PRELIMINARY PROGRAM DATA. | 1AJ | 5904 |
| 36 | | | | | | 1AJ | 5905 |
| 37 | | 1637 | 3052 | | BCP1 LDD IR+2 | 1AJ | 5906 |
| 38 | | 1640 | 1102 | | LMN 2 | 1AJ | 5907 |
| 39 | | 1641 | 0507 | | NJN BCP2 IF NOT *DIS* CALL | 1AJ | 5908 |
| 40 | | 1642 | 3054 | | LDD IR+4 SET *RSS* BIT | 1AJ | 5909 |
| 41 | | 1643 | 1201 | | LPN 1 | 1AJ | 5910 |
| 42 | | 1644 | 1602 | | ADN 2 SET *DIS* BIT | 1AJ | 5911 |
| 43 | | 1645 | 1006 | | SHN 6 | 1AJ | 5912 |
| 44 | | 1646 | 5400 5263 | | STM /3AE/SLPE | 1AJ | 5913 |
| 45 | | 1650 | 3036 | | BCP2 LDD AB+4 CHECK LOADER CALL | 1AJ | 5914 |
| 46 | | 1651 | 0410 | | ZJN BCP3 IF NOT LOADER CALL | 1AJ | 5915 |
| 47 | | 1652 | 3067 | | LDD KA ASSEMBLE PROGRAM NAME | 1AJ | 5916 |
| 48 | | 1653 | 3466 | | STD CA | 1AJ | 5917 |
| 49 | | 1654 | 0200 2625 | | RJM ASN | 1AJ | 5918 |
| 50 | | 1656 | 3054 | | LDD IR+4 | 1AJ | 5919 |
| 51 | | 1657 | 1301 | | SCN 1 CLEAR *RSS* FLAG | 1AJ | 5920 |
| 52 | | 1660 | 3454 | | STD IR+4 | 1AJ | 5921 |
| 53 | | 1661 | 3055 | | BCP3 LDD RA STORE PROGRAM NAME | 1AJ | 5922 |
| 54 | | 1662 | 1006 | | SHN 6 | 1AJ | 5923 |

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| 1663 | 1664 | | ADN | PGNR | | | 1AJ | 5924 | |
| 1664 | 6232 | | CWD | AB | | | 1AJ | 5925 | |
| 1665 | 0317 | | UJN | BCP5 | LOAD CENTRAL PROGRAM | | 1AJ | 5926 | |
| | | | | | | | 1AJ | 5927 | |
| | | | * | | LOAD PROGRAM. | | 1AJ | 5928 | |
| | | | | | | | 1AJ | 5929 | |
| 1666 | 5000 | 1255 | BCP4 | LDM | CSEB+1 | CHECK FOR *DPA=* ENTRY POINT | NS2578 | 1 | |
| 1670 | 1006 | | | SHN | 21-13 | | NS2578 | 2 | |
| 1671 | 0607 | | | PJN | BCP4.1 | IF NO ARGUMENTS EXPECTED | NS2578 | 3 | |
| 1672 | 3055 | | | LDD | RA | | 1AJ | 5932 | |
| 1673 | 1006 | | | SHN | 6 | | NS2578 | 4 | |
| 1674 | 1664 | | | ADN | PGNR | | NS2578 | 5 | |
| 1675 | 6025 | | | CRD | CN | | NS2578 | 6 | |
| 1676 | 3031 | | | LDD | CN+4 | SAVE ARGUMENT COUNT | NS2578 | 7 | |
| 1677 | 3414 | | | STD | CM+4 | | NS2578 | 8 | |
| 1700 | 3055 | | BCP4.1 | LDD | RA | | NS2578 | 9 | |
| 1701 | 1006 | | | SHN | 6 | | 1AJ | 5933 | |
| 1702 | 1664 | | | ADN | PGNR | | 1AJ | 5934 | |
| 1703 | 6210 | | | CWD | CM | | 1AJ | 5935 | |
| 1704 | 0200 | 4556 | | RJM | /3AE/LCP | LOAD CENTRAL PROGRAM | 1AJ | 5936 | |
| | | 1705 | | BCPB | EQU | *-1 | 1AJ | 5937 | |
| | | | * | RJM | /3AE/LDU | (USER LIBRARY OR LOCAL *SHELL* FILE LOAD) | 1AJ28 | 21 | |
| 1706 | 0511 | | | NJN | BCP6 | IF LOAD ERROR | 1AJ | 5939 | |
| 1707 | 5000 | 6272 | | LDM | /3AE/SPFA | | 1AJ | 5940 | |
| 1711 | 0310 | | | BCPC | UJN | BCP7 | NO 54 TABLE CHECK | 1AJ | 5941 |
| | | | * | ZJN | BCP7 | (IF NO MINFL IN 54 TABLE) | 1AJ | 5942 | |
| 1712 | 3256 | | | SBD | FL | | 1AJ | 5943 | |
| 1713 | 1701 | | | SBN | 1 | | 1AJ | 5944 | |
| 1714 | 0705 | | | MJN | BCP7 | IF MINFL .LE. FL | 1AJ | 5945 | |
| 1715 | 2000 | 1512 | | LDC | /ERR/EM02 | * FL TOO SHORT FOR PROGRAM.* | NS2031 | 21 | |
| 1717 | 0100 | 2723 | | BCP6 | LJM | ERR1 | 1AJ | 5947 | |
| | | | | | | | 1AJ | 5948 | |
| 1721 | 3074 | | | BCP7 | LDD | CP | 1AJ | 5949 | |
| | | | | | | CLEAR ONE JOB STEP RFL IN TXOT JOBS | 1AJ | 5950 | |
| 1722 | 1663 | | | ADN | FLCW | | 1AJ | 5951 | |
| 1723 | 6025 | | | CRD | CN | | 1AJ | 5952 | |
| 1724 | 3401 | | | STD | T1 | | 1AJ | 5953 | |
| 1725 | 3026 | | | LDD | CN+1 | | 1AJ | 5954 | |
| 1726 | 1006 | | | SHN | 21-13 | | 1AJ | 5955 | |
| 1727 | 0605 | | | PJN | BCP8 | IF NOT ONE JOB STEP RFL | 1AJ | 5956 | |
| 1730 | 1400 | | | LDN | 0 | CLEAR ONE JOB STEP RFL | 1AJ | 5957 | |
| 1731 | 3426 | | | STD | CN+1 | | 1AJ | 5958 | |
| 1732 | 3001 | | | LDD | T1 | | 1AJ | 5959 | |
| 1733 | 6225 | | | CWD | CN | | 1AJ | 5960 | |
| | | | * | | | CLEAR EXCHANGE PACKAGE AND ENTER ARGUMENTS. | 1AJ | 5961 | |
| | | | | | | | 1AJ | 5962 | |
| 1734 | 3013 | | | BCP8 | LDD | CM+3 | 1AJ | 5963 | |
| 1735 | 1237 | | | | LPN | 37 | 1AJ | 5964 | |
| 1736 | 1014 | | | SHN | 14 | | 1AJ | 5965 | |
| 1737 | 3314 | | | LMD | CM+4 | | 1AJ | 5966 | |
| 1740 | 0200 | 4002 | | RJM | CLX | | 1AJ | 5967 | |
| 1742 | 0200 | 2300 | | BCPD | RJM | ARG | 1AJ | 5968 | |
| | | | * | LJM | BCP22 | ENTER ARGUMENTS | V23L617 | 614 | |
| | | | | | | (*DMP=* PROCESSING ON SYSTEM REQUEST | | | |
| 1744 | 3065 | | | LDD | PF | CHECK PROGRAM FORMAT | 1AJ | 5970 | |
| 1745 | 1703 | | | SBN | 3 | | 1AJ | 5971 | |
| 1746 | 0703 | | | BCPL | MJN | BCP9 | NS21000 | 469 | |
| | | | * | MJN | BCP9.1 | IF TYPE OVL OR ABS | NS21000 | 470 | |
| | | | | | | IF *SHELL* LOAD | | | |

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| 1747 | 0100 | 2047 | | LJM | BCP11 | START PROGRAM | 1AJ | 5973 |
| 1751 | 0200 | 3660 | | RJM | STK | SKIP SEQUENCE NUMBER | 1AJ | 5974 |
| 1753 | 5500 | 1776 | | RAM | BCPE | MODIFY BUFFER ADDRESS | 1AJ | 5975 |
| 1755 | 1410 | | BCP9 | LDN | 10 | SET COMMAND WORD COUNT | V23L617 | 615 |
| 1756 | 3401 | | | STD | T1 | | 1AJ | 5978 |
| 1757 | 3055 | | | LDD | RA | READ PROGRAM NAME | 1AJ | 5979 |
| 1760 | 1006 | | | SHN | 6 | | 1AJ | 5980 |
| 1761 | 1664 | | | ADN | ACTR | | 1AJ | 5981 |
| 1762 | 6032 | | | CRD | AB | | 1AJ | 5982 |
| 1763 | 3002 | | | LDD | T2 | SET ARGUMENT COUNT | 1AJ | 5983 |
| 1764 | 3436 | | | STD | AB+4 | | 1AJ | 5984 |
| 1765 | 3035 | | | LDD | AB+3 | | 1AJ | 5985 |
| 1766 | 1377 | | | SCN | 77 | | 1AJ | 5986 |
| 1767 | 3435 | | | STD | AB+3 | | 1AJ | 5987 |
| 1770 | 3055 | | | LDD | RA | STORE PROGRAM NAME | 1AJ | 5988 |
| 1771 | 1006 | | | SHN | 6 | | 1AJ | 5989 |
| 1772 | 1664 | | | ADN | ACTR | | 1AJ | 5990 |
| 1773 | 6232 | | | CWD | AB | | 1AJ | 5991 |
| 1774 | 1604 | | | ADN | CCDR-ACTR | STORE COMMAND | V23L617 | 616 |
| 1775 | 6301 | 4334 | | CWM | STMT,T1 | | 1AJ | 5993 |
| | | | 1776 | BCPE | EQU | *-1 | 1AJ | 5994 |
| 1777 | 0322 | | | BCPK | UJN | BCP9.2 | NS21000 | 472 |
| | | | | * | LDN | MS2W-MS1W | NS21000 | 473 |
| | | | | | | (*MS1W* COPY ENABLED) | | |
| 2000 | 3401 | | | STD | T1 | | NS21000 | 474 |
| 2001 | 3074 | | | LDD | CP | COPY *MS1W* TO RA+2 | NS21000 | 475 |
| 2002 | 1631 | | | ADN | MS1W | | NS21000 | 476 |
| 2003 | 6101 | 4334 | | CRM | STMT,T1 | | NS21000 | 477 |
| 2005 | 3055 | | | LDD | RA | | NS21000 | 478 |
| 2006 | 1006 | | | SHN | 6 | | NS21000 | 479 |
| 2007 | 1602 | | | ADN | ARGR | | NS21000 | 480 |
| 2010 | 6301 | 4334 | | CWM | STMT,T1 | | NS21000 | 481 |
| 2012 | 1277 | | | LPN | 77 | ADJUST THE *CSTM* PARAMETERS | 1AJ37 | 1 |
| 2013 | 5400 | 2253 | | STM | BCPI+5*2+4 | | 1AJ37 | 2 |
| 2015 | 1462 | | | LDN | PGNR-ARGR | | 1AJ37 | 3 |
| 2016 | 3201 | | | SBD | T1 | | 1AJ37 | 4 |
| 2017 | 5400 | 2251 | | STM | BCPI+5*2+2 | | 1AJ37 | 5 |
| 2021 | | | | BCP9.2 | BSS | 0 | NS21000 | 482 |
| 2021 | 0306 | | | BCPF | UJN | BCP10 | 1AJ | 5995 |
| | | | | * | LDN | CCDR | V23L617 | 617 |
| | | | | | | (PROCESSING *TCS* EXECUTE COMMAND | | |
| 2022 | 5400 | 3250 | | STM | ISDA | | 1AJ | 5997 |
| 2024 | 1400 | | | LDN | 0 | | 1AJ | 5998 |
| 2025 | 5400 | 3275 | | STM | ISDB+3 | | 1AJ | 5999 |
| 2027 | 5000 | 1254 | | BCP10 | LDM | CSEB | 1AJ | 6000 |
| 2031 | 1017 | | | SHN | 21-2 | CHECK *SSJ=* | 1AJ | 6001 |
| 2032 | 0615 | | | PJN | BCP11 | IF NOT SPECIAL SYSTEM JOB | 1AJ | 6002 |
| 2033 | 5000 | 1257 | | LDM | CSEB+3 | | 1AJ | 6003 |
| 2035 | 1237 | | | LPN | 37 | | 1AJ | 6004 |
| 2036 | 5100 | 1260 | | ADM | CSEB+4 | | 1AJ | 6005 |
| 2040 | 0407 | | | ZJN | BCP11 | IF NO PARAMETER BLOCK | 1AJ | 6006 |
| 2041 | 2036 | 0106 | | EXECUTE | 3AF | | 1AJ | 6007 |
| 2045 | 0200 | 6121 | | RJM | /3AF/TCA | TRANSFER CONTROL POINT AREA FIELDS | 1AJ | 6008 |
| | | | | * | | | 1AJ | 6009 |
| | | | | | | START PROGRAM. | 1AJ | 6010 |
| 2047 | 0200 | 2651 | | BCP11 | RJM | CAT | V23L617 | 618 |
| 2051 | 1724 | | | ADK | SRUW-RFCW | READ SRU ACCUMULATOR | 1AJ | 6013 |

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| 2052 | 6010 | | CRD | CM | | 1AJ | 6014 | |
| 2053 | 1611 | | ADN | FPFW-SRUW | | 1AJ3 | 1 | |
| 2054 | 6170 | 4543 | CRM | OVL,ON | | 1AJ | 6016 | |
| 2056 | 3011 | | LDD | CM+1 | CHECK IF OVERFLOW OCCURRED | 1AJ | 6017 | |
| 2057 | 1337 | | SCN | 37 | | 1AJ | 6018 | |
| 2060 | 0504 | | NJN | BCP11.1 | IF OVERFLOW | NS22000 | 193 | |
| 2061 | 3010 | | LDD | CM | | NS22000 | 194 | |
| 2062 | 1203 | | LPN | 3 | | NS2753 | 1 | |
| 2063 | 0422 | | ZJN | BCP12 | IF NO OVERFLOW | 1AJ | 6019 | |
| 2064 | 2000 | 2254 | BCP11.1 | LDC | BCPJ | SET PARAMETER BLOCK ADDRESS | NS22000 | 196 |
| 2066 | 5400 | 4544 | STM | OVL+1 | | 1AJ | 6021 | |
| 2070 | 5000 | 4543 | LDM | OVL | SET OVERFLOW FUNCTION CALL | 1AJ | 6022 | |
| 2072 | 1377 | | SCN | 77 | | 1AJ | 6023 | |
| 2073 | 1601 | | ADN | 1 | | 1AJ | 6024 | |
| 2074 | 5400 | 4543 | STM | OVL | | 1AJ | 6025 | |
| 2076 | 2000 | 4550 | BCP12 | EXECUTE | 0AU,OVL+5 | 1AJ | 6026 | |
| 2105 | 3074 | | LDD | CP | | 1AJ | 6027 | |
| 2106 | 2100 | 0105 | ADC | SEPW | | 1AJ | 6028 | |
| 2110 | 6370 | 1254 | CWM | CSEB,ON | | 1AJ | 6029 | |
| | | | ADK | SPCW-SEPW-1 | | 1AJ | 6030 | |
| 2112 | 6025 | | CRD | CN | | 1AJ | 6031 | |
| 2113 | 3402 | | STD | T2 | | 1AJ | 6032 | |
| 2114 | 5000 | 1254 | LDM | CSEB | | 1AJ | 6033 | |
| 2116 | 1015 | | SHN | 21-4 | | 1AJ | 6034 | |
| 2117 | 0606 | | PJN | BCP13 | IF NOT *DMP=* | 1AJ | 6035 | |
| 2120 | 3026 | | LDD | CN+1 | CLEAR *1R0* CALLED FLAG | 1AJ | 6036 | |
| 2121 | 1302 | | SCN | 2 | | 1AJ | 6037 | |
| 2122 | 3426 | | STD | CN+1 | | 1AJ | 6038 | |
| 2123 | 3002 | | LDD | T2 | | 1AJ | 6039 | |
| 2124 | 6225 | | CWD | CN | | 1AJ | 6040 | |
| 2125 | 3074 | | BCP13 | LDD | CP | 1AJ | 6041 | |
| 2126 | 1627 | | ADN | OAEW | GET OPERATOR ASSIGNED EQUIPMENT | NS2719 | 28 | |
| 2127 | 6025 | | CRD | CN | | 1AJ | 6045 | |
| 2130 | 1644 | | ADN | CSPW-OAEW | STORE COMMAND POINTER | V23L617 | 619 | |
| 2131 | 6240 | | CWD | SP | | 1AJ | 6047 | |
| 2132 | 3031 | | LDD | CN+4 | CHECK ASSIGNED EQUIPMENT | NS2719 | 29 | |
| 2133 | 0406 | | ZJN | BCP15 | IF NO EQUIPMENT ASSIGNED | 1AJ | 6054 | |
| 2134 | 1400 | | LDN | 0 | CLEAR ASSIGNMENT | 1AJ | 6055 | |
| 2135 | 3431 | | STD | CN+4 | | 1AJ | 6056 | |
| 2136 | 3074 | | LDD | CP | | 1AJ | 6057 | |
| 2137 | 1627 | | ADN | OAEW | | 1AJ | 6058 | |
| 2140 | 6225 | | CWD | CN | | 1AJ | 6059 | |
| 2141 | 5000 | 1254 | BCP15 | LDM | CSEB | CHECK *CLB=* ENTRY POINT | 1AJ | 6060 |
| 2143 | 1013 | | SHN | 21-6 | | 1AJ | 6061 | |
| 2144 | 0605 | | PJN | BCP16 | IF NO *CLB=* | 1AJ | 6062 | |
| 2145 | 2036 | 0110 | BCP16 | EXECUTE | 3AH | 1AJ | 6063 | |
| 2151 | 3074 | | LDD | CP | GET SECURE MEMORY STATUS OF LAST JOB STEP | 1AJ | 6064 | |
| 2152 | 2100 | 0111 | ADC | DBAW | | 1AJ | 6065 | |
| 2154 | 3401 | | STD | T1 | | 1AJ | 6066 | |
| 2155 | 6007 | | CRD | T7 | | 1AJ | 6067 | |
| 2156 | 1466 | | LDN | ZERL | | 1AJ | 6068 | |
| 2157 | 6010 | | CRD | CM | | 1AJ | 6069 | |
| 2160 | 3077 | | LDD | MA | WRITE *CSTM* LIST TO MESSAGE BUFFER | 1AJ | 6070 | |
| 2161 | 6373 | 2235 | CWM | BCPI,TR | | 1AJ | 6071 | |
| 2163 | 6210 | | CWD | CM | TERMINATE LIST | 1AJ | 6072 | |
| 2164 | 5000 | 1254 | LDM | CSEB | CHECK *SSJ=* OR *SSM=* ENTRY POINTS | 1AJ | 6073 | |
| 2166 | 1205 | | LPN | 5 | | 1AJ | 6074 | |

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| 2167 | 0404 | | ZJN | BCP17 | IF NOT *SSJ=* OR *SSM=* | 1AJ | 6075 |
| 2170 | 2000 4000 | | LDC | 4000 | SET SECURE MEMORY STATUS FOR THIS JOB STEP | 1AJ | 6076 |
| 2172 | 3410 | | STD | CM | | 1AJ | 6077 |
| 2173 | 3001 | | BCP17 | LDD T1 | SET SSM STATUS AND CLEAR (DBAW) | 1AJ | 6078 |
| 2174 | 6210 | | | CWD CM | | 1AJ | 6079 |
| 2175 | 3007 | | BCPG | LDD T7 | | 1AJ | 6080 |
| | | | * | UJN BCP19 | (SUBSYSTEM, END OF JOB, OR *DMP=*) | 1AJ | 6081 |
| 2176 | 2200 5000 | | | LPC 5000 | | NS2031 | 22 |
| 2200 | 0502 | | | NJN BCP18 | IF LAST JOB STEP SECURE OR INTERACTIVE | NS2031 | 23 |
| 2201 | 0314 | | BCPH | UJN BCP19 | CONTINUE PROCESSING | 1AJ | 6084 |
| | | | * | PSN | IF FL INCREASE | 1AJ | 6085 |
| 2202 | 1445 | | BCP18 | LDK SSTL | | NS22000 | 197 |
| 2203 | 6025 | | | CRD CN | | NS22000 | 198 |
| 2204 | 3025 | | | LDD CN | | NS22000 | 199 |
| 2205 | 1007 | | | SHN 21-12 | | NS22000 | 200 |
| 2206 | 0605 | | | PJN BCP18.1 | IF MEMORY CLEARING ENABLED | NS22000 | 201 |
| 2207 | 5000 1254 | | | LDM CSEB | | NS22000 | 202 |
| 2211 | 1201 | | BCPN | LPN 1 | | 1AJ60 | 1 |
| | | | * | LPN 0 | (EXECUTE ONLY GLOBAL LIBRARY ROUTINE) | 1AJ60 | 2 |
| | | | * | LPN 0 | (ECS FL INCREASE) | 1AJ85 | 1 |
| 2212 | 0503 | | | NJN BCP19 | IF *SSM=* ENTRY POINT | 1AJ | 6088 |
| 2213 | 0200 2524 | | BCP18.1 | RJM CST | CLEAR STORAGE | NS22000 | 203 |
| 2215 | 3052 | | BCP19 | LDD IR+2 | | 1AJ | 6090 |
| 2216 | 1102 | | | LMN 2 | | 1AJ | 6091 |
| 2217 | 0504 | | | NJN BCP20 | IF NOT DIS CALL | 1AJ | 6092 |
| 2220 | 3054 | | | LDD IR+4 | | 1AJ | 6093 |
| 2221 | 1201 | | | LPN 1 | | 1AJ | 6094 |
| 2222 | 0503 | | | NJN BCP21 | IF RSS | 1AJ | 6095 |
| 2223 | 5600 1173 | | BCP20 | AOM ISTA | ENABLE START JOB STEP | 1AJ | 6096 |
| 2225 | 0100 1152 | | BCP21 | LJM IST | ISSUE COMMAND TO DAYFILE | V23L617 | 620 |
| | | | | | | 1AJ | 6098 |
| 2227 | 2036 0106 | | BCP22 | EXECUTE 3AF | | 1AJ | 6099 |
| 2233 | 0100 5672 | | | LJM /3AF/SDP | START *DMP=* PROGRAM | 1AJ | 6100 |
| | | | | | | 1AJ | 6101 |
| | | | | | | 1AJ | 6102 |
| 2235 | 0000 0000 | | BCPI | CON 0,0,0,0,0 | CLEAR FROM LWA+1 TO FL-1 | 1AJ | 6103 |
| 2237 | 0000 0000 | | | | | | |
| 2241 | 0000 | | | | | | |
| 2242 | 0000 0000 | | | CON 0,0,0,0,100 | CLEAR FROM 100B TO FWA-1 | 1AJ | 6104 |
| 2244 | 0000 0000 | | | | | | |
| 2246 | 0100 | | | | | | |
| 2247 | 0000 0000 | | | CON 0,0,0,0,0 | CLEAR UNLOADED ARGUMENT AREA | 1AJ | 6105 |
| 2251 | 0000 0000 | | | | | | |
| 2253 | 0000 | | | | | | |
| | | | | | | 1AJ | 6106 |
| 2254 | | 5 | BCPJ | BSS 5 | *0AU* PARAMETER BUFFER | 1AJ | 6107 |
| | | | | | | 1AJ | 6108 |
| | | 27 | | ERRNG 37+BCPC-BCP7 | IF JUMP OUT OF RANGE | 1AJ | 6109 |
| | | 17 | | ERRNG 37+BCPG-BCP19 | IF JUMP OUT OF RANGE | 1AJ | 6110 |

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|----|------|------|------|------|---|--------|----|
| | *** | | | | ARG - ENTER ARGUMENTS. | NS2031 | 25 |
| | * | | | | | NS2031 | 26 |
| | * | | | | ARGUMENTS STORED 1/WORD LEFT JUSTIFIED STARTING AT (RA+ARGR). | NS2031 | 27 |
| | * | | | | KRONOS FORMAT- | NS2031 | 28 |
| | * | | | | LOWER 6 BITS = SEPARATOR CHARACTER. (EXCEPT A COMMA IS | NS2031 | 29 |
| | * | | | | PASSED AS 6 BITS OF ZEROS.) | NS2031 | 30 |
| | * | | | | SCOPE FORMAT- | NS2031 | 31 |
| | * | | | | LOWER 4 BITS = SEPARATOR CODE. | NS2031 | 32 |
| | * | | | | | NS2031 | 33 |
| | * | | | | ENTRY (PF) = PROGRAM FORMAT. | NS2031 | 34 |
| | * | | | | | NS2031 | 35 |
| | * | | | | EXIT (T2) = ARGUMENT COUNT. | NS2031 | 36 |
| | * | | | | | NS2031 | 37 |
| | * | | | | ERROR TO *ERR1* IF ERROR. | NS2031 | 38 |
| | * | | | | | NS2031 | 39 |
| | * | | | | USES T2, AB - AB+4, CM - CM+4. | NS2031 | 40 |
| | * | | | | | NS2031 | 41 |
| | * | | | | CALLS ASN, TSS. | NS2031 | 42 |
| | | | | | | NS2031 | 43 |
| | | | | | | NS2031 | 44 |
| 18 | 2261 | 1466 | | ARG6 | LDN ZERL SET BLANK ARGUMENT | NS2031 | 45 |
| 19 | 2262 | 6010 | | | CRD CM | NS2031 | 46 |
| 20 | 2263 | 3055 | | | LDD RA | NS2031 | 47 |
| 21 | 2264 | 1006 | | | SHN 6 | NS2031 | 48 |
| 22 | 2265 | 1602 | | | ADN ARGR | NS2031 | 49 |
| 23 | 2266 | 3102 | | | ADD T2 | NS2031 | 50 |
| 24 | 2267 | 6210 | | | CWD CM | NS2031 | 51 |
| 25 | 2270 | 1277 | | | LPN 77 SET FWA OF ARGUMENT AREA CLEAR | NS2031 | 52 |
| 26 | 2271 | 5400 | 2253 | | STM BCPI+5*2+4 | NS2031 | 53 |
| 27 | 2273 | 1462 | | | LDN PGNR-2 SET WORD COUNT OF ARGUMENT AREA CLEAR | NS2031 | 54 |
| 28 | 2274 | 3202 | | | SBD T2 | NS2031 | 55 |
| 29 | 2275 | 5400 | 2251 | | STM BCPI+5*2+2 | NS2031 | 56 |
| 30 | | | | | | NS2031 | 57 |
| 31 | 2277 | 0100 | 2277 | ARG | SUBR ENTRY/EXIT | NS2031 | 58 |
| 32 | 2301 | 1400 | | | LDN 0 CLEAR ARGUMENT COUNTER | NS2031 | 59 |
| 33 | 2302 | 3402 | | | STD T2 | NS2031 | 60 |
| 34 | 2303 | 5000 | 1254 | | LDM CSEB | NS2031 | 61 |
| 35 | 2305 | 1014 | | | SHN 21-5 | NS2031 | 62 |
| 36 | 2306 | 0770 | | | MJN ARGX IF *ARG=* PRESENT | NS2031 | 63 |
| 37 | | | | * | UJN ARG6 (*SHELL* PROCESSING) | NS2031 | 64 |
| 38 | | | 2306 | ARGC | EQU *-1 | NS2031 | 65 |
| 39 | 2307 | 4066 | | ARG1 | LDI CA CHECK NEXT CHARACTER | NS2031 | 66 |
| 40 | 2310 | 0450 | | | ZJN ARG6 IF TERMINATOR | NS2031 | 67 |
| 41 | 2311 | 3666 | | | AOD CA SKIP SEPARATOR | NS2031 | 68 |
| 42 | 2312 | 0200 | 2625 | | RJM ASN ASSEMBLE ARGUMENT | NS2031 | 69 |
| 43 | 2314 | 2000 | 0000 | | LDC 0 PARAMETER CRACKING FORMAT | NS2031 | 70 |
| 44 | | | 2315 | ARGA | EQU *-1 | NS2031 | 71 |
| 45 | 2316 | 0504 | | | NJN ARG2 IF KRONOS FORMAT | NS2031 | 72 |
| 46 | 2317 | 0200 | 3751 | | RJM TSS TRANSLATE SCOPE FORMAT | NS2031 | 73 |
| 47 | 2321 | 0305 | | | UJN ARG3 STORE ARGUMENT | NS2031 | 74 |
| 48 | | | | | | NS2031 | 75 |
| 49 | 2322 | 4066 | | ARG2 | LDI CA CHECK SEPARATOR | NS2031 | 76 |
| 50 | 2323 | 1156 | | | LMN 1R, | NS2031 | 77 |
| 51 | 2324 | 0403 | | | ZJN ARG4 IF *,* | NS2031 | 78 |
| 52 | 2325 | 1156 | | | LMN 1R, ENTER SEPARATOR | NS2031 | 79 |
| 53 | 2326 | 3436 | | ARG3 | STD AB+4 | NS2031 | 80 |
| 54 | 2327 | 3055 | | ARG4 | LDD RA STORE ARGUMENT | NS2031 | 81 |

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| 2330 | 1006 | | SHN | 6 | | NS2031 | 82 | |
| 2331 | 1602 | | ADN | ARGR | | NS2031 | 83 | |
| 2332 | 3102 | | ADD | T2 | | NS2031 | 84 | |
| 2333 | 6232 | | CWD | AB | | NS2031 | 85 | |
| 2334 | 3602 | | AOD | T2 | ADVANCE ARGUMENT COUNT | NS2031 | 86 | |
| 2335 | 1701 | | SBN | 1 | | NS2031 | 87 | |
| 2336 | 2300 0060 | | LMC | 60 | CHECK ARGUMENT LIMIT | NS2031 | 88 | |
| | | 2337 | EQU | *-1 | | NS2031 | 89 | |
| 2340 | 0546 | | NJN | ARG1 | IF NOT ARGUMENT LIMIT | NS2031 | 90 | |
| 2341 | 1466 | | LDN | ZERL | ENSURE ZERO TERMINATED ARGUMENT LIST | NS2031 | 91 | |
| 2342 | 6010 | | CRD | CM | | NS2031 | 92 | |
| 2343 | 3055 | | LDD | RA | | NS2031 | 93 | |
| 2344 | 1006 | | SHN | 6 | | NS2031 | 94 | |
| 2345 | 1663 | | ADN | ARGR+60+1 | | NS2031 | 95 | |
| 2346 | 6210 | | CWD | CM | | NS2031 | 96 | |
| 2347 | 2000 1674 | | LDC | /ERR/EM11 | * TOO MANY ARGUMENTS.* | NS2031 | 97 | |
| 2351 | 0100 2723 | | LJM | ERR1 | PROCESS ERROR | NS2031 | 98 | |
| | | | | | | NS2031 | 99 | |
| | | | | | | NS2031 | 100 | |
| | | 12 | ERRNG | 37+ARG6-ARGC | JUMP OUT OF RANGE | NS2031 | 101 | |
| | | | | | | | | |
| | | | ** | | CSE - CHECK FOR SPECIAL ENTRY POINTS. | NS2031 | 103 | |
| | | | * | | | NS2031 | 104 | |
| | | | * | | ENTRY (T1 - T2) ADDRESS OF DIRECTORY ENTRY. | NS2031 | 105 | |
| | | | * | | (CW - CW+4) = LIBRARY CONTROL WORD. | NS2031 | 106 | |
| | | | * | | | NS2031 | 107 | |
| | | | * | | EXIT (CSEB - CSEB+4) SPECIAL ENTRY POINT WORD. | NS2031 | 108 | |
| | | | * | | TO *CPP* TO CALL *1AJ* IF *DMP=* COMMAND CALL. | V23L617 | 621 | |
| | | | * | | | NS2031 | 110 | |
| | | | * | | ERROR TO *ERR1* IF VALIDATION VIOLATION. | NS2031 | 111 | |
| | | | * | | | NS2031 | 112 | |
| | | | * | | USES T1, T2, FS - FS+4. | NS2031 | 113 | |
| | | | * | | | NS2031 | 114 | |
| | | | * | | CALLS CVD, *1AJ*. | NS2031 | 115 | |
| | | | * | | | NS2031 | 116 | |
| | | | * | | MACROS EXECUTE. | NS2031 | 117 | |
| | | | | | | NS2031 | 118 | |
| | | | | | | NS2031 | 119 | |
| 2353 | 0100 2353 | | CSE | SUBR | ENTRY/EXIT | NS2031 | 120 | |
| 2355 | 3061 | | LDD | CW+1 | | NS2031 | 121 | |
| 2356 | 1011 | | SHN | 21-10 | | NS2031 | 122 | |
| 2357 | 0610 | | PJN | CSE1 | IF NO SPECIAL ENTRY POINTS | NS2031 | 123 | |
| 2360 | 3001 | | LDD | T1 | READ SPECIAL ENTRY POINT WORD FROM PST | NS2031 | 124 | |
| 2361 | 1014 | | SHN | 14 | | NS2031 | 125 | |
| 2362 | 3302 | | LMD | T2 | | NS2031 | 126 | |
| 2363 | 1601 | | ADN | 1 | | NS2031 | 127 | |
| 2364 | 6170 1254 | | CRM | CSEB,ON | | NS2031 | 128 | |
| 2366 | 0304 | | UJN | CSE2 | START PROCESSING | NS2031 | 129 | |
| | | | | | | NS2031 | 130 | |
| 2367 | 1466 | | CSE1 | LDN | ZERL | CLEAR SPECIAL ENTRY POINT WORD BUFFER | NS2031 | 131 |
| 2370 | 6170 1254 | | CRM | CSEB,ON | | NS2031 | 132 | |
| 2372 | 5000 1254 | | CSE2 | LDM | CSEB | | NS2031 | 133 |
| 2374 | 1013 | | SHN | 21-6 | | NS2031 | 134 | |
| 2375 | 0623 | | PJN | CSE4 | IF NO *CLB=* | NS2031 | 135 | |

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| 2376 | 3056 | | LDD | FL | | NS2031 | 136 | |
| 2377 | 0415 | | ZJN | CSE3 | IF NO FL | NS2031 | 137 | |
| 2400 | 3155 | | ADD | RA | CHECK WORD COUNT | NS2031 | 138 | |
| 2401 | 1701 | | SBN | 1 | | NS2031 | 139 | |
| 2402 | 1006 | | SHN | 6 | | NS2031 | 140 | |
| 2403 | 6020 | | CRD | FS | | NS2031 | 141 | |
| 2404 | 3024 | | LDD | FS+4 | | NS2031 | 142 | |
| 2405 | 0407 | | ZJN | CSE3 | IF NO DATA | NS2031 | 143 | |
| 2406 | 5000 | 3226 | LDM | IPLB+4 | CHECK TERMINAL NUMBER | NS2031 | 144 | |
| 2410 | 0404 | | ZJN | CSE3 | IF NOT ON-LINE INTERACTIVE JOB | NS2031 | 145 | |
| 2411 | 5600 | 5275 | AOM | /3AE/SLPF | | NS2031 | 146 | |
| 2413 | 0305 | | UJN | CSE4 | ALL CONDITIONS MET FOR *CLB=* | NS2031 | 147 | |
| | | | | | | NS2031 | 148 | |
| 2414 | 2077 | 7677 | CSE3 | LDC | -100 | CLEAR *CLB=* STATUS | NS2031 | 149 |
| 2416 | 5500 | 1254 | | RAM | CSEB | | NS2031 | 150 |
| 2420 | 5000 | 1254 | CSE4 | LDM | CSEB | | NS2031 | 151 |
| 2422 | 1020 | | | SHN | 21-1 | | NS2031 | 152 |
| 2423 | 0604 | | | PJN | CSE5 | IF *VAL=* NOT PRESENT | 1AJ90 | 5 |
| 2424 | 1400 | | | LDN | 0 | CLEAR CHARGE REQUIRED | 1AJ90 | 6 |
| 2425 | 5400 | 1104 | | STM | TCSA | | 1AJ90 | 7 |
| 2427 | 5000 | 1254 | CSE5 | LDM | CSEB | | NS2031 | 159 |
| 2431 | 1015 | | | SHN | 21-4 | | NS2031 | 160 |
| 2432 | 0620 | | | PJN | CSE6 | IF *DMP=* NOT PRESENT | NS2031 | 161 |
| 2433 | 3074 | | | LDD | CP | CHECK IF SPECIAL CALL PRESENT | NS2031 | 162 |
| 2434 | 2100 | 0106 | | ADC | SPCW | | NS2031 | 163 |
| 2436 | 6020 | | | CRD | FS | | NS2031 | 164 |
| 2437 | 3020 | | | LDD | FS | | NS2031 | 165 |
| 2440 | 0512 | | | NJN | CSE6 | IF CALL PRESENT | NS2031 | 166 |
| 2441 | 5000 | 1256 | | LDM | CSEB+2 | | NS2031 | 167 |
| 2443 | 1010 | | | SHN | 21-11 | | NS2031 | 168 |
| 2444 | 0610 | | | PJN | CSE7 | IF *DMP=* NOT SUPPRESSED ON COMMANDS | V23L617 | 624 |
| 2445 | 5000 | 1254 | | LDM | CSEB | CLEAR *DMP=* | NS2031 | 170 |
| 2447 | 1120 | | | LMN | 20 | | NS2031 | 171 |
| 2450 | 5400 | 1254 | | STM | CSEB | | NS2031 | 172 |
| 2452 | 0100 | 2353 | CSE6 | LJM | CSEX | RETURN | NS2031 | 173 |
| | | | | | | | NS2031 | 174 |
| | | | | | | | NS2031 | 175 |
| 2454 | | | CSEA | BSS | 0 | | NS2031 | 176 |
| 2454 | 1400 | | CSE7 | LDN | 0 | IF NOT POSSIBLE CONTINUATION COMMAND | V23L617 | 625 |
| | | | * | LDN | 1 | (POSSIBLE CONTINUATION COMMAND) | V23L617 | 626 |
| 2455 | 0574 | | | NJN | CSE6 | IF POSSIBLE CONTINUATION COMMAND | V23L617 | 627 |
| 2456 | 5000 | 1256 | | LDM | CSEB+2 | CHECK *DMP=* ENTRY POINT VALUE | 1AJ48 | 1 |
| 2460 | 1006 | | | SHN | 21-13 | | 1AJ48 | 2 |
| 2461 | 0703 | | | MJN | CSE8 | IF *RESTART* | 1AJ48 | 3 |
| 2462 | 0200 | 2667 | | RJM | CVD | CHECK VALID *DMP=* CALL | NS2031 | 180 |
| 2464 | 3074 | | CSE8 | LDD | CP | SAVE INPUT REGISTER | 1AJ48 | 4 |
| 2465 | 2100 | 0105 | | ADC | SEPW | | NS2031 | 182 |
| 2467 | 6250 | | | CWD | IR | | NS2031 | 183 |
| 2470 | 1400 | | | LDN | 0 | | NS2031 | 184 |
| 2471 | 3452 | | | STD | IR+2 | CLEAR INPUT REGISTER | NS2031 | 185 |
| 2472 | 3453 | | | STD | IR+3 | | NS2031 | 186 |
| 2473 | 3454 | | | STD | IR+4 | | NS2031 | 187 |
| 2474 | 1477 | | | LDN | 77 | SET CALL PRESENT | NS2031 | 188 |
| 2475 | 3420 | | | STD | FS | | NS2031 | 189 |
| 2476 | 1424 | | | LDN | 24 | SET *DMP=* AND NO RA+1 CLEAR FLAGS | NS2031 | 190 |
| 2477 | 3421 | | | STD | FS+1 | | NS2031 | 191 |
| 2500 | 3074 | | | LDD | CP | SET *DMP=* CALL | NS2031 | 192 |

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| 2501 | 2100 0106 | ADC | SPCW | | | NS2031 | 193 |
| 2503 | 6220 | CWD | FS | | | NS2031 | 194 |
| 2504 | 1714 | SBN | SPCW-TERW | | | NS2031 | 195 |
| 2505 | 6020 | CRD | FS | | | NS2031 | 196 |
| 2506 | 5000 1256 | LDM | CSEB+2 | | | NS2031 | 197 |
| 2510 | 3423 | STD | FS+3 | | | NS2031 | 198 |
| 2511 | 5000 1257 | LDM | CSEB+3 | | | NS2031 | 199 |
| 2513 | 3424 | STD | FS+4 | | | NS2031 | 200 |
| 2514 | 3074 | LDD | CP | | | NS2031 | 201 |
| 2515 | 1672 | ADN | TERW | | | NS2031 | 202 |
| 2516 | 6220 | CWD | FS | | | NS2031 | 203 |
| 2517 | 2034 0112 | EXECUTE | 1AJ,* | RE-CALL | *1AJ* | NS2031 | 204 |
| 2521 | 0100 1242 | LJM | CPP | CALL | PP PROGRAM | NS2031 | 205 |
| | | ** | CST - CLEAR STORAGE. | | | NS2031 | 207 |
| | | * | | | | NS2031 | 208 |
| | | * | ENTRY (CSTB) = 0 | IF EXTENDED MEMORY TO BE CLEARED. | | V23L617 | 628 |
| | | * | (CSTC) = FWA | OF EXTENDED MEMORY TO CLEAR. | | V23L617 | 629 |
| | | * | (CSTD) = WORD COUNT | OF EXTENDED MEMORY TO CLEAR. | | V23L617 | 630 |
| | | * | | | | NS2031 | 212 |
| | | * | EXIT | CM AND EXTENDED MEMORY CLEARED AS NECESSARY. | | V23L617 | 631 |
| | | * | | | | NS2031 | 214 |
| | | * | USES | CM - CM+4. | | NS2031 | 215 |
| | | * | | | | NS2031 | 216 |
| | | * | MACROS | MONITOR. | | NS2031 | 217 |
| | | | | | | NS2031 | 218 |
| | | | | | | NS2031 | 219 |
| 2523 | 0100 2523 | CST | SUBR | ENTRY/EXIT | | NS2031 | 220 |
| 2525 | 3071 | CSTA | LDD | HN | SET CM RELATIVE *CSTM* ADDRESSES | NS2031 | 221 |
| | | * | UJN | CSTB | (IF LOADING *LDR=* OR *SLDR=*) | NS2031 | 222 |
| 2526 | 3411 | | STD | CM+1 | | NS2031 | 223 |
| 2527 | 1431 | | MONITOR | CSTM | | NS2031 | 224 |
| 2532 | 0370 | CSTB | UJN | CSTX | IF EXTENDED MEMORY NOT TO BE CLEARED | V23L617 | 632 |
| | | * | PSN | | (IF ALSO CLEARING EXTENDED MEMORY) | V23L617 | 633 |
| | | | | | | NS2031 | 227 |
| 2533 | 2000 0000 | LDC | ** | | FWA OF EXTENDED MEMORY TO CLEAR | V23L617 | 634 |
| | | | | | | NS2031 | 229 |
| 2535 | 3414 | CSTC | EQU | *-1 | | NS2031 | 230 |
| 2536 | 2000 0000 | LDC | ** | | WORD COUNT TO CLEAR | NS2031 | 231 |
| | | | | | | NS2031 | 232 |
| 2540 | 3412 | CSTD | EQU | *-1 | | NS2031 | 233 |
| 2541 | 1400 | | STD | CM+2 | | NS2031 | 234 |
| 2542 | 3413 | | LDN | 0 | | NS2031 | 235 |
| 2543 | 2000 0300 | LDC | 300 | | SET ECS RELATIVE *CSTM* ADDRESSES | NS2031 | 236 |
| 2545 | 3411 | | STD | CM+1 | | NS2031 | 237 |
| 2546 | 1431 | | MONITOR | CSTM | | NS2031 | 238 |
| 2551 | 0351 | | UJN | CSTX | RETURN | NS2031 | 239 |
| | | | | | | NS2031 | 240 |
| | | * | DEFINE | THE END OF CODE OVERLAYED BY *3AM*. | | NS2031 | 241 |
| | | | | | | NS2031 | 242 |
| | 2552 | ECA | EQU | * | END OF CURRENT CODE | NS2031 | 243 |
| | 2477 | ECB | EQU | EOVL+502B*2+5 | END OF *3AM* | NS2031 | 244 |
| | 2552 | ECC | MAX | ECA,ECB | REQUIRED ORIGIN OF NON-OVERLAYED CODE | NS2031 | 245 |
| 2552 | | ORG | ECC | | | NS2031 | 246 |

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| | ** | | | | AKW - ASSEMBLE KEYWORD. | | 1AJ | 6113 |
| | * | | | | | | 1AJ | 6114 |
| | * | | | | ENTRY (CHAR) = COMMAND STRING. | | V23L617 | 635 |
| 1 | * | | | | (FA) = 0. | | 1AJ | 6116 |
| 2 | * | | | | | | 1AJ | 6117 |
| 3 | * | | | | EXIT (A) = 0 IF NO KEYWORD. | | 1AJ | 6118 |
| 4 | * | | | | (A) = -0, IF COMMENT COMMAND. | | V23L617 | 636 |
| 5 | * | | | | (CA) = CHARACTER ADDRESS. | | 1AJ | 6120 |
| 6 | * | | | | (KA) = ADDRESS OF START OF KEYWORD. | | 1AJ | 6121 |
| 7 | * | | | | (AB - AB+4) = KEYWORD. | | 1AJ | 6122 |
| 8 | * | | | | (FA) .NE. 0 IF FIRST CHARACTER = *\$*. | | 1AJ92 | 27 |
| 9 | * | | | | (ARGA) .NE. 0 IF FIRST CHARACTER = */*. | | 1AJ92 | 28 |
| 10 | * | | | | (ISDA) = 0 IF COMMENT COMMAND. | | V23L617 | 637 |
| 11 | * | | | | | | 1AJ | 6126 |
| 12 | * | | | | CALLS ASN. | | 1AJ | 6127 |
| 13 | | | | | | | 1AJ | 6128 |
| 14 | | | | | | | 1AJ | 6129 |
| 15 | | 2552 | 1117 | | AKW2 | LMN 1R*&1R/ | 1AJ108 | 1 |
| 16 | | 2553 | 0507 | | | NJN AKW5 IF NOT */* | 1AJ108 | 2 |
| 17 | | 2554 | 5600 2315 | | | AOM ARGA SET KRONOS FORMAT | 1AJ108 | 3 |
| 18 | | 2556 | 0302 | | | UJN AKW4 SKIP PREFIX CHARACTER | 1AJ108 | 4 |
| 19 | | | | | | | 1AJ108 | 5 |
| 20 | | 2557 | 3657 | | AKW3 | AOD FA SET PROGRAM FILE BYPASS | 1AJ | 6130 |
| 21 | | 2560 | 3666 | | AKW4 | AOD CA SKIP PREFIX CHARACTER | 1AJ | 6131 |
| 22 | | 2561 | 3467 | | | STD KA | 1AJ | 6132 |
| 23 | | 2562 | 0200 2625 | | AKW5 | RJM ASN ASSEMBLE NAME | 1AJ | 6133 |
| 24 | | 2564 | 4066 | | | LDI CA CHECK SEPARATOR | 1AJ108 | 6 |
| 25 | | 2565 | 1153 | | | LMN 1R\$ | 1AJ108 | 7 |
| 26 | | 2566 | 0402 | | | ZJN AKWX IF INCORRECT SEPARATOR | 1AJ108 | 8 |
| 27 | | 2567 | 3032 | | | LDD AB RETURN WITH KEYWORD STATUS | 1AJ | 6134 |
| 28 | | | | | | | 1AJ | 6135 |
| 29 | | 2570 | 0100 2570 | | AKW | SUBR ENTRY/EXIT | 1AJ | 6136 |
| 30 | | 2572 | 2000 4411 | | | LDC CHAR SET CHARACTER ADDRESS | 1AJ | 6137 |
| 31 | | 2574 | 3466 | | | STD CA | 1AJ | 6138 |
| 32 | | 2575 | 3467 | | | STD KA | 1AJ | 6139 |
| 33 | | 2576 | 4066 | | | LDI CA CHECK CHARACTER | 1AJ | 6140 |
| 34 | | 2577 | 1733 | | | SBN 1R0 | 1AJ | 6141 |
| 35 | | 2600 | 0761 | | | MJN AKW5 IF ALPHA | 1AJ | 6142 |
| 36 | | 2601 | 1712 | | | SBN 1R9+1-1R0 | 1AJ | 6143 |
| 37 | | 2602 | 0605 | | | PJN AKW1 IF NOT DIGIT | 1AJ | 6144 |
| 38 | | 2603 | 0200 2625 | | | RJM ASN ASSEMBLE NAME | 1AJ | 6145 |
| 39 | | 2605 | 3666 | | | AOD CA SKIP SEPARATOR | 1AJ | 6146 |
| 40 | | 2606 | 3467 | | | STD KA | 1AJ | 6147 |
| 41 | | 2607 | 4066 | | AKW1 | LDI CA CHECK CHARACTER | 1AJ | 6148 |
| 42 | | 2610 | 1153 | | | LMN 1R\$ | 1AJ | 6149 |
| 43 | | 2611 | 0445 | | | ZJN AKW3 IF *\$* | 1AJ | 6150 |
| 44 | | 2612 | 1114 | | | LMN 1R*&1R\$ | 1AJ | 6151 |
| 45 | | 2613 | 0403 | | | NJP AKW2 IF NOT (*) | 1AJ108 | 9 |
| 46 | | 2616 | 5400 3250 | | | STM ISDA | 1AJ | 6153 |
| 47 | | 2620 | 1466 | | | LDN ZERL | 1AJ | 6154 |
| 48 | | 2621 | 6032 | | | CRD AB | 1AJ | 6155 |
| 49 | | 2622 | 1500 | | | LCN 0 INDICATE COMMENT COMMAND | V23L617 | 638 |
| 50 | | 2623 | 0344 | | | UJN AKWX RETURN | 1AJ | 6157 |

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| | ** | | | ASN - ASSEMBLE NAME. | | | 1AJ | 6237 |
| | * | | | | | | 1AJ | 6238 |
| | * | | | ENTRY (CA) = FIRST ADDRESS OF CHARACTER STRING. | | | 1AJ | 6239 |
| | * | | | (ARGA) = 0 IF SCOPE FORMAT. | | | 1AJ | 6240 |
| | * | | | | | | 1AJ | 6241 |
| | * | | | EXIT (AB - AB+4) = ASSEMBLED NAME. | | | 1AJ | 6242 |
| | * | | | | | | 1AJ | 6243 |
| | * | | | ERROR TO *ERR* IF ERROR. | | | 1AJ | 6244 |
| | * | | | TO *ATX1* IF ERROR AND EXIT FLAG SET. | | | 1AJ | 6245 |
| | * | | | TO *RCA10* IF ERROR ON *ARG=* READ AHEAD. | | | 1AJ | 6246 |
| | * | | | | | | 1AJ | 6247 |
| | * | | | USES T1. | | | 1AJ | 6248 |
| | * | | | | | | 1AJ | 6249 |
| | * | | | CALLS IOC. | | | 1AJ | 6250 |
| | | | | | | | 1AJ | 6251 |
| | | | | | | | 1AJ | 6252 |
| 14 | 2624 | 0100 | 2624 | ASN | SUBR | | 1AJ | 6253 |
| 15 | 2626 | 1466 | | | LDN ZERL | ENTRY/EXIT CLEAR ASSEMBLY | 1AJ | 6254 |
| 16 | 2627 | 6032 | | | CRD AB | | 1AJ | 6255 |
| 17 | 2630 | 1432 | | | LDN AB | SET BYTE ADDRESS | 1AJ | 6256 |
| 18 | 2631 | 3401 | | | STD T1 | | 1AJ | 6257 |
| 19 | 2632 | 0200 | 2736 | ASN1 | RJM IOC | INTERROGATE ONE CHARACTER | 1AJ | 6258 |
| 20 | 2634 | 0467 | | | ZJN ASNX | IF END OF STRING | 1AJ | 6259 |
| 21 | 2635 | 1006 | | | SHN 6 | | 1AJ | 6260 |
| 22 | 2636 | 4401 | | | STI T1 | | 1AJ | 6261 |
| 23 | 2637 | 0200 | 2736 | | RJM IOC | INTERROGATE ONE CHARACTER | 1AJ | 6262 |
| 24 | 2641 | 0462 | | | ZJN ASNX | IF END OF STRING | 1AJ | 6263 |
| 25 | 2642 | 4501 | | | RAI T1 | | 1AJ | 6264 |
| 26 | 2643 | 3601 | | | AOD T1 | ADVANCE BYTE | 1AJ | 6265 |
| 27 | 2644 | 1136 | | | LMN AB+4 | | 1AJ | 6266 |
| 28 | 2645 | 0564 | | | NJN ASN1 | IF MORE CHARACTERS TO PROCESS | 1AJ | 6267 |
| 29 | 2646 | 0100 | 2721 | | LJM ERR | FORMAT ERROR | 1AJ | 6268 |
| 30 | | | 2647 | ASNA | EQU *-1 | (ATX) | 1AJ | 6269 |
| 31 | | | | * | LJM RCA10 | (*ARG=* ON READ AHEAD) | 1AJ | 6270 |
| 32 | | | | * | LJM ATX1 | (EXIT FLAG SET) | 1AJ | 6271 |
| 33 | | | | * | LJM ERR | (END OF EXIT. CARD SEARCH, EXIT FLAG SET) | 1AJ | 6272 |
| 38 | | | | ** | | CAT - CLEAR ADDRESS FOR *TCS* EXECUTE COMMAND. | V23L617 | 639 |
| 39 | | | | * | | | 1AJ | 6275 |
| 40 | | | | * | | EXIT (A) = (T1) = (CP) + *RFCW*. | 1AJ | 6276 |
| 41 | | | | * | | (CM - CM+4) = (*RFCW*). | 1AJ | 6277 |
| 42 | | | | * | | | 1AJ | 6278 |
| 43 | | | | * | | USES T1, CM - CM+4. | 1AJ | 6279 |
| 44 | | | | | | | 1AJ | 6280 |
| 45 | | | | | | | 1AJ | 6281 |
| 46 | 2650 | 0100 | 2650 | CAT | SUBR | ENTRY/EXIT | 1AJ | 6282 |
| 47 | 2652 | 3074 | | | LDD CP | READ ADDRESS FOR EXECUTE COMMAND FROM CM | V23L617 | 640 |
| 48 | 2653 | 1675 | | | ADN RFCW | | 1AJ | 6284 |
| 49 | 2654 | 3401 | | | STD T1 | | 1AJ | 6285 |
| 50 | 2655 | 6010 | | | CRD CM | | 1AJ | 6286 |
| 51 | 2656 | 1400 | | | LDN 0 | CLEAR ADDRESS | 1AJ | 6287 |
| 52 | 2657 | 3412 | | | STD CM+2 | | 1AJ | 6288 |
| 53 | 2660 | 3013 | | | LDD CM+3 | | 1AJ | 6289 |
| 54 | 2661 | 1277 | | | LPN 77 | | 1AJ | 6290 |

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| 2662 | 3413 | | STD | CM+3 | | | 1AJ | 6291 |
| 2663 | 3001 | | LDD | T1 | | | 1AJ | 6292 |
| 2664 | 6210 | | CWD | CM | | | 1AJ | 6293 |
| 2665 | 0362 | | UJN | CATX | RETURN | | 1AJ | 6294 |
| | | | ** | | CVD - CHECK VALID *DMP=* CALL | | 1AJ | 6436 |
| | | | * | | | | 1AJ | 6437 |
| | | | * | | EXIT TO CALLING ROUTINE IF *DMP=* CALL VALID. | | 1AJ | 6438 |
| | | | * | | | | 1AJ | 6439 |
| | | | * | | ERROR TO *ERR1* IF *DMP=* CALL INCORRECT. | V23L617 | | 641 |
| | | | * | | | 1AJ | | 6441 |
| | | | * | | USES CM - CM+4. | 1AJ | | 6442 |
| | | | | | | 1AJ | | 6445 |
| | | | | | | 1AJ | | 6446 |
| 2666 | 0100 | 2666 | CVD | SUBR | ENTRY/EXIT | | 1AJ | 6447 |
| 2670 | 3056 | | LDD | FL | | NS2031 | | 247 |
| 2671 | 0425 | | ZJN | CVD2 | IF NO FL PRESENT | NS2031 | | 248 |
| 2672 | 3074 | | LDD | CP | CHECK SSM STATUS | 1AJ | | 6448 |
| 2673 | 2100 | 0111 | ADC | DBAW | | 1AJ | | 6449 |
| 2675 | 6010 | | CRD | CM | | 1AJ | | 6450 |
| 2676 | 3010 | | LDD | CM | | 1AJ | | 6451 |
| 2677 | 1006 | | SHN | 21-13 | | 1AJ | | 6452 |
| 2700 | 0707 | | MJN | CVD1 | IF SECURE MEMORY | NS2031 | | 249 |
| 2701 | 1002 | | SHN | 21-11-21+13 | | NS2031 | | 250 |
| 2702 | 0663 | | PJN | CVDX | IF NOT INTERACTIVE JOB STEP INITIATION | NS2031 | | 251 |
| 2703 | 2000 | 1546 | LDC | /ERR/EM04 | * INTERACTIVE JOB STEP, DUMP DISABLED.* | NS2031 | | 252 |
| 2705 | 5400 | 2717 | STM | CVDA | | NS2031 | | 253 |
| 2707 | 5000 | 1125 | CVD1 | LDM | TCSO CHECK USER ACCESS | 1AJ92 | | 29 |
| 2711 | 0454 | | ZJN | CVDX | IF ACCESS ALLOWED | 1AJ | | 6455 |
| 2712 | 2000 | 0312 | LDC | UJNI+IST4-ISTB | | 1AJ | | 6456 |
| 2714 | 5400 | 1206 | STM | ISTB | SET JUMP | 1AJ | | 6457 |
| 2716 | 2000 | 1637 | CVD2 | LDC | /ERR/EM09 * SECURE MEMORY, DUMP DISABLED.* | NS2031 | | 255 |
| | | 2717 | CVDA | EQU | *-1 | NS2031 | | 256 |
| 2720 | 0303 | | UJN | ERR1 | ISSUE ERROR MESSAGE | 1AJ | | 6459 |
| | | | | | | 1AJ | | 6460 |
| | | 25 | ERRNG | | 37+ISTB-IST4 IF JUMP OUT OF RANGE | 1AJ | | 6461 |
| | | | ** | | ERR - PROCESS ERROR. | 1AJ | | 6463 |
| | | | * | | | 1AJ | | 6464 |
| | | | * | | ENTRY AT *ERR* IF *FORMAT ERROR ON COMMAND.* | V23L617 | | 642 |
| | | | * | | MESSAGE TO BE ISSUED. | 1AJ | | 6466 |
| | | | * | | AT *ERR1* IF (A) = ADDRESS OF ERROR MESSAGE. | 1AJ | | 6467 |
| | | | * | | | 1AJ | | 6468 |
| | | | * | | USES EF, EP. | NS2031 | | 257 |
| | | | * | | | NS2031 | | 258 |
| | | | * | | CALLS *3AM*. | NS2031 | | 259 |
| | | | * | | | NS2031 | | 260 |
| | | | * | | MACROS EXECUTE. | NS2031 | | 261 |
| | | | | | | 1AJ | | 6475 |
| | | | | | | 1AJ | | 6476 |
| 2721 | 2000 | 1530 | ERR | LDC | /ERR/EM03 * FORMAT ERROR ON COMMAND.* | V23L617 | | 643 |

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| 2723 | 3446 | | ERR1 | STD | EF | | NS2031 | 263 |
| 2724 | 1400 | | | LDN | 0 | INDICATE *TCS* CALL | NS2031 | 264 |
| 2725 | 3437 | | | STD | EP | | NS2031 | 265 |
| 2726 | 2036 | 0115 | | EXECUTE | 3AM | EXECUTE ERROR PROCESSOR | NS2031 | 266 |
| | | | ** | | | IOC - INTERROGATE ONE CHARACTER. | 1AJ | 6550 |
| | | | * | | | | 1AJ | 6551 |
| | | | * | ENTRY | (CA) | = ADDRESS OF CHARACTER STRING. | 1AJ | 6552 |
| | | | * | | | | 1AJ | 6553 |
| | | | * | EXIT | A = 0 | IF END OF PARAMETER. | 1AJ | 6554 |
| | | | * | | | = NEXT CHARACTER OF PARAMETER. | 1AJ | 6555 |
| | | | * | | | (CA) = CA + 1. | 1AJ | 6556 |
| | | | | | | | 1AJ | 6557 |
| | | | | | | | 1AJ | 6558 |
| 2732 | 3666 | | IOC1 | AOD | CA | | 1AJ | 6559 |
| 2733 | 5066 | 7776 | | LDM | -1,CA | | 1AJ | 6560 |
| | | | | | | | 1AJ | 6561 |
| 2735 | 0100 | 2735 | IOC | SUBR | | | 1AJ | 6562 |
| 2737 | 4066 | | | LDI | CA | | 1AJ | 6563 |
| 2740 | 0474 | | | ZJN | IOCX | IF END OF PARAMETERS | 1AJ | 6564 |
| 2741 | 1745 | | | SBN | 1R9+1 | | 1AJ | 6565 |
| 2742 | 0767 | | | MJN | IOC1 | IF NOT SEPARATOR | 1AJ | 6566 |
| 2743 | 1702 | | | SBN | 1R*-1R9-1 | | 1AJ | 6567 |
| 2744 | 0465 | | | ZJN | IOC1 | IF ASTERISK | 1AJ | 6568 |
| 2745 | 1400 | | | LDN | 0 | | 1AJ | 6569 |
| 2746 | 0366 | | | UJN | IOCX | RETURN | 1AJ | 6570 |
| | | | ** | | | IPL - INITIALIZE PROGRAM LOAD. | 1AJ | 6572 |
| | | | * | | | | NS2067 | 13 |
| | | | * | USES | T1, CM - CM+4, CN - CN+4, FS - FS+4. | | NS2067 | 14 |
| | | | * | | | | 1AJ | 6573 |
| | | | * | CALLS | RRR, SRR. | | NS2748 | 25 |
| | | | * | | | | NS2748 | 26 |
| | | | * | MACROS | DELAY, MONITOR, NFA, PAUSE. | | NS2748 | 27 |
| | | | | | | | 1AJ | 6575 |
| | | | | | | | 1AJ | 6576 |
| 2747 | 0100 | 2747 | IPL | SUBR | | ENTRY/EXIT | 1AJ | 6577 |
| 2751 | 3074 | | | LDD | CP | READ SENSE SWITCH WORD | 1AJ | 6578 |
| 2752 | 1630 | | | ADN | SNSW | | 1AJ | 6579 |
| 2753 | 6025 | | | CRD | CN | | 1AJ | 6580 |
| 2754 | 1641 | | | ADN | EECW-SNSW | READ ENTRY/EXIT CONTROL | 1AJ | 6581 |
| 2755 | 6010 | | | CRD | CM | | 1AJ | 6582 |
| 2756 | 1601 | | | ADN | TERW-EECW | CLEAR EVENT DESCRIPTOR | 1AJ | 6583 |
| 2757 | 6020 | | | CRD | FS | | 1AJ | 6584 |
| 2760 | 3022 | | | LDD | FS+2 | | 1AJ | 6585 |
| 2761 | 1377 | | | SCN | 77 | | 1AJ | 6586 |
| 2762 | 3422 | | | STD | FS+2 | | 1AJ | 6587 |
| 2763 | 1400 | | | LDN | 0 | | 1AJ | 6588 |
| 2764 | 3423 | | | STD | FS+3 | | 1AJ | 6589 |
| 2765 | 3424 | | | STD | FS+4 | | 1AJ | 6590 |
| 2766 | 3074 | | | LDD | CP | | 1AJ | 6591 |

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| 2767 | 1672 | | | ADN | TERW | | 1AJ | 6592 |
| 2770 | 6220 | | | CWD | FS | | 1AJ | 6593 |
| 2771 | 3010 | | | LDD | CM | SAVE NO EXIT FLAG, KILL REPRIEVED FLAG | 1AJ57 | 1 |
| 2772 | 2200 | 4400 | | LPC | 4400 | | 1AJ57 | 2 |
| 2774 | 3401 | | | STD | T1 | | 1AJ | 6596 |
| 2775 | 1466 | | | LDN | ZERL | | 1AJ | 6597 |
| 2776 | 6020 | | | CRD | FS | | 1AJ | 6598 |
| 2777 | 6010 | | | CRD | CM | PRESERVE NO EXIT FLAG | 1AJ | 6599 |
| 3000 | 3001 | | | LDD | T1 | | 1AJ | 6600 |
| 3001 | 3410 | | | STD | CM | | 1AJ | 6601 |
| 3002 | 3030 | | | LDD | CN+3 | CLEAR PAUSE BIT | 1AJ | 6602 |
| 3003 | 1301 | | | SCN | 1 | | 1AJ | 6603 |
| 3004 | 3430 | | | STD | CN+3 | | 1AJ | 6604 |
| 3005 | 3025 | | | LDD | CN | CLEAR *OVERRIDE* REQUIRED | 1AJ | 6605 |
| 3006 | 2200 | 6777 | | LPC | 6777 | | 1AJ | 6606 |
| | | | | LPC | 7777 | (DMP= LOAD) | 1AJ9 | 1 |
| | | 3007 | * | EQU | *-1 | IPLC | 1AJ9 | 2 |
| 3010 | 3425 | | | STD | CN | | 1AJ | 6607 |
| 3011 | 3074 | | | LDD | CP | STORE SENSE SWITCH WORD | 1AJ | 6608 |
| 3012 | 1630 | | | ADN | SNSW | | 1AJ | 6609 |
| 3013 | 6225 | | | CWD | CN | | 1AJ | 6610 |
| 3014 | 1606 | | | ADN | MS2W-SNSW | CLEAR CONSOLE MESSAGE | 1AJ | 6611 |
| 3015 | 6220 | | | CWD | FS | | 1AJ | 6612 |
| 3016 | 1630 | | | ADN | TIAW-MS2W | READ TERMINAL INTERRUPT ADDRESS WORD | 1AJ | 6613 |
| 3017 | 6025 | | | CRD | CN | | 1AJ | 6614 |
| 3020 | 1603 | | | ADN | EECW-TIAW | STORE ENTRY/EXIT CONTROL | 1AJ | 6615 |
| 3021 | 6210 | | | CWD | CM | | 1AJ | 6616 |
| 3022 | 1630 | | | ADN | LOFW-EECW | CLEAR LIST OF FILES ADDRESS | NS22000 | 204 |
| 3023 | 6020 | | | CRD | FS | | NS22000 | 205 |
| 3024 | 3400 | | | STD | T0 | | NS22000 | 206 |
| 3025 | 1400 | | | LDN | 0 | | NS22000 | 207 |
| 3026 | 3420 | | | STD | FS | | NS22000 | 208 |
| 3027 | 3421 | | | STD | FS+1 | | NS22000 | 209 |
| 3030 | 3422 | | | STD | FS+2 | | NS22000 | 210 |
| 3031 | 3000 | | | LDD | T0 | | NS22000 | 211 |
| 3032 | 6220 | | | CWD | FS | | NS22000 | 212 |
| 3033 | 1400 | | | LDN | 0 | RESET TERMINAL INTERRUPT ADDRESS WORD | 1AJ | 6619 |
| 3034 | 3427 | | | STD | CN+2 | | 1AJ | 6620 |
| 3035 | 3430 | | | STD | CN+3 | | 1AJ | 6621 |
| 3036 | 3431 | | | STD | CN+4 | | 1AJ | 6622 |
| 3037 | 3074 | | | LDD | CP | | 1AJ | 6623 |
| 3040 | 1666 | | | ADN | TIAW | | 1AJ | 6624 |
| 3041 | 6225 | | | CWD | CN | | 1AJ | 6625 |
| 3042 | 3074 | | | LDD | CP | READ FL CONTROL | 1AJ | 6626 |
| 3043 | 1663 | | | ADN | FLCW | | 1AJ | 6627 |
| 3044 | 6010 | | | CRD | CM | | 1AJ | 6628 |
| 3045 | 3011 | | | LDD | CM+1 | SET LAST RFL | 1AJ | 6629 |
| 3046 | 0507 | | | NJN | IPL2 | IF SET | 1AJ | 6630 |
| 3047 | 2000 | 0500 | | LDC | SYSDEF | NEW FL = MIN(DEFAULT FL, MFL) | 1AJ | 6631 |
| 3051 | 3210 | | | SBD | CM | | 1AJ | 6632 |
| 3052 | 0702 | | | MJN | IPL1 | IF MAX FL .GT. DEFAULT FL | 1AJ | 6633 |
| 3053 | 1400 | | | LDN | 0 | SET NEW FL = MFL | 1AJ | 6634 |
| 3054 | 3110 | | | ADD | CM | SET NEW FL = DEFAULT FL | 1AJ | 6635 |
| 3055 | 2200 | 3777 | | LPC | 3777 | SET STORAGE REQUEST | 1AJ | 6636 |
| 3057 | 5400 | 3471 | | STM | RQSD | | 1AJ | 6637 |
| 3061 | 1400 | | | LDN | ** | INTERACTIVE INDICATOR | NS2748 | 28 |
| | | 3061 | | EQU | *-1 | IPLE | NS2748 | 29 |

| | | | | | | | | |
|------|-----------|------|---------|-----------|-------------------------------------|--|--------|----|
| 3062 | 0503 | | ZJP | IPL5.1 | IF NOT ON-LINE INTERACTIVE JOB | NS2748 | 30 | |
| 3065 | 0200 4140 | | RJM | SRR | SET R-REGISTER TO IAF RA | NS2748 | 31 | |
| 3067 | 2000 0000 | | LDC | ** | | 1AJ | 6638 | |
| | | 3070 | IPLA | EQU *-1 | (TERMINAL TABLE ADDRESS) | 1AJ | 6639 | |
| 3071 | 1607 | | ADK | /REM/VSTT | | 1AJ | 6641 | |
| 3072 | 6025 | | CRD | CN | | 1AJ | 6642 | |
| 3073 | 0200 4156 | | RJM | RRR | RESTORE R-REGISTER | NS2748 | 32 | |
| 3075 | 3054 | | LDD | IR+4 | | 1AJ68 | 1 | |
| 3076 | 1101 | | LMN | 1 | | 1AJ68 | 2 | |
| 3077 | 0430 | | ZJN | IPL4.1 | IF *DMP=* JOB BEING EXECUTED | 1AJ68 | 3 | |
| 3100 | 3025 | | LDD | CN | CHECK TERINAL INTERRUPT BIT | 1AJ | 6643 | |
| 3101 | 1006 | | SHN | 21-13 | | 1AJ | 6644 | |
| 3102 | 0712 | | MJN | IPL4 | IF INTERRUPT SELECTED | NS2067 | 16 | |
| 3103 | 3025 | | IPL3 | LDD | CN | 1AJ | 6649 | |
| 3104 | 1014 | | SHN | 21-5 | | 1AJ | 6650 | |
| 3105 | 0622 | | PJN | IPL4.1 | IF PROMPT ALREADY ON | NS2205 | 2 | |
| 3106 | 3025 | | LDD | CN | | NS2067 | 18 | |
| 3107 | 1340 | | SCN | 40 | CLEAR BIT | NS2067 | 19 | |
| 3110 | 3425 | | STD | CN | | NS2067 | 20 | |
| 3111 | 1465 | | LDN | 53D | SET BIT IN *VSTT* TO CLEAR | 1AJ | 6652 | |
| 3112 | 5400 3225 | | STM | IPLB+3 | | 1AJ | 6653 | |
| 3114 | 3077 | | IPL4 | LDD | MA | NS2067 | 21 | |
| 3115 | 6370 3222 | | CWM | IPLB,ON | | 1AJ | 6655 | |
| 3117 | 1466 | | LDK | ZERL | | 271L716 | 18 | |
| 3120 | 6010 | | CRD | CM | | 271L716 | 19 | |
| 3121 | 2000 0113 | | MONITOR | TSEM | | NS2067 | 22 | |
| 3125 | 3011 | | LDD | CM+1 | | NS2067 | 23 | |
| 3126 | 0503 | | NJN | IPL4.2 | IF NOT IAF INACCESSABLE OR ERROR | NS2205 | 3 | |
| 3127 | 0100 3171 | | IPL4.1 | LJM | IPL6 | PROCESS ERROR | NS2205 | 4 |
| | | | | | | NS2205 | 5 | |
| 3131 | 2300 7777 | | IPL4.2 | LMC | 7777 | NS2205 | 6 | |
| 3133 | 0547 | | NJN | IPL3 | IF REQUEST COMPLETE | NS2067 | 26 | |
| 3134 | 1400 | | PAUSE | ST | | NS2467 | 35 | |
| 3137 | 2000 3600 | | LDC | 3600 | *TSEM* QUEUE FULL - DELAY AND RETRY | NS2067 | 27 | |
| 3141 | 3401 | | STD | T1 | | NS2067 | 28 | |
| 3142 | 5000 0255 | | IPL5 | DELAY | | NS2067 | 29 | |
| 3146 | 3701 | | SOD | T1 | | NS2067 | 30 | |
| 3147 | 0444 | | ZJN | IPL4 | IF TIME TO REISSUE REQUEST | NS2067 | 31 | |
| 3150 | 0371 | | UJN | IPL5 | CONTINUE TO DELAY | NS2067 | 32 | |
| | | | | | | NS2067 | 33 | |
| 3151 | 2000 0000 | | IPL5.1 | LDC | ** | NS2205 | 7 | |
| | | 3152 | IPLD | EQU *-1 | (CONNECTION STATUS) | NS2205 | 8 | |
| 3153 | 1101 | | LMK | DTCS | | NS2205 | 9 | |
| 3154 | 0515 | | NJN | IPL6 | IF NOT DETACHED JOB | NS2205 | 10 | |
| 3155 | 3055 | | NFA | RC1N | READ NFL RECOVERY WORD | NS2205 | 11 | |
| 3160 | 6010 | | CRD | CM | | NS2205 | 12 | |
| 3161 | 3014 | | LDD | CM+4 | | NS2205 | 13 | |
| 3162 | 2200 7676 | | LPC | 7676 | CLEAR TERMINAL INTERRUPT/PROMPT OFF | NS2205 | 14 | |
| 3164 | 3414 | | STD | CM+4 | | NS2205 | 15 | |
| 3165 | 3055 | | NFA | RC1N | REWRITE NFL RECOVERY WORD | NS2205 | 16 | |
| 3170 | 6210 | | CWD | CM | | NS2205 | 17 | |
| 3171 | 3074 | | IPL6 | LDD | CP | CLEAR USER LIBRARY AND RELOCATABLE FLAGS | NS2067 | 34 |
| 3172 | 2100 0112 | | ADC | LB1W | | 1AJ | 6658 | |
| 3174 | 3401 | | STD | T1 | SAVE ADDRESS | 1AJ | 6659 | |
| 3175 | 6010 | | CRD | CM | | 1AJ | 6660 | |
| 3176 | 3010 | | LDD | CM | | 1AJ | 6661 | |
| 3177 | 1303 | | SCN | 3 | | 1AJ | 6662 | |

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|------|-----------|------|------|-------------|---|---------|------|
| 3200 | 3410 | | STD | CM | | 1AJ | 6663 |
| 3201 | 3001 | | LDD | T1 | | 1AJ | 6664 |
| 3202 | 6210 | | CWD | CM | | 1AJ | 6665 |
| 3203 | 3054 | | LDD | IR+4 | | 1AJ | 6666 |
| 3204 | 1101 | | LMN | 1 | | 1AJ | 6667 |
| 3205 | 0413 | | ZJN | IPL7 | IF *DMP=* JOB BEING EXECUTED | NS2067 | 35 |
| 3206 | 3074 | | LDD | CP | CLEAR LAST FILE EXECUTED | 1AJ | 6669 |
| 3207 | 2100 0115 | | ADC | EOCW | | 1AJ | 6670 |
| 3211 | 6010 | | CRD | CM | | 1AJ | 6671 |
| 3212 | 1400 | | LDN | 0 | | 1AJ | 6672 |
| 3213 | 3410 | | STD | CM | | 1AJ | 6673 |
| 3214 | 3074 | | LDD | CP | | 1AJ | 6674 |
| 3215 | 2100 0115 | | ADC | EOCW | | 1AJ | 6675 |
| 3217 | 6210 | | CWD | CM | | 1AJ | 6676 |
| 3220 | 0100 2747 | IPL7 | LJM | IPLX | RETURN | NS2067 | 36 |
| | | | | | | 1AJ | 6678 |
| | | | | | | 1AJ | 6679 |
| 3222 | 2004 | IPLB | CON | /REM/VCDT | CLEAR TERMINAL INTERRUPT | NS2004 | 1 |
| 3223 | 0000 0007 | | CON | 0,/REM/VSTT | WORD TO CLEAR | 1AJ | 6681 |
| 3225 | 0073 | | CON | 59D | BIT TO CLEAR | 1AJ | 6682 |
| 3226 | 0000 | | CON | 0 | TERMINAL NUMBER | 1AJ | 6683 |
| | | | | | | | |
| | | | ** | ISD | - ISSUE COMMAND TO DAYFILE. | V23L617 | 644 |
| | | | * | | | 1AJ | 6686 |
| | | | * | ENTRY | (A) = ADDRESS OF ZERO FILLED COMMAND. | V23L617 | 645 |
| | | | * | | (FL) = JOB FIELD LENGTH. | 1AJ | 6688 |
| | | | * | | (EF) = ERROR STATUS. | 1AJ | 6689 |
| | | | * | | | 1AJ | 6690 |
| | | | * | EXIT | (A) = 0 IF COMMAND ISSUED VIA *DFM* CALL. | V23L617 | 646 |
| | | | * | | | 1AJ | 6692 |
| | | | * | USES | T2, T3, T9. | 1AJ | 6693 |
| | | | * | | | 1AJ | 6694 |
| | | | * | CALLS | DFM. | 1AJ | 6695 |
| | | | | | | 1AJ | 6696 |
| | | | | | | 1AJ | 6697 |
| 3227 | 5400 3276 | ISD2 | STM | ISDB+4 | SET MESSAGE ADDRESS | 1AJ | 6698 |
| 3231 | 3056 | | LDD | FL | | 1AJ | 6699 |
| 3232 | 0420 | | ZJN | ISD1 | IF NO FIELD LENGTH | 1AJ | 6700 |
| 3233 | 3046 | | LDD | EF | | 1AJ | 6701 |
| 3234 | 0516 | | NJN | ISD1 | IF ERROR FLAG SET | 1AJ | 6702 |
| 3235 | 3055 | | LDD | RA | STORE *MSG* REQUEST | 1AJ | 6703 |
| 3236 | 1006 | | SHN | 6 | | 1AJ | 6704 |
| 3237 | 1601 | | ADN | 1 | | 1AJ | 6705 |
| 3240 | 6370 3272 | | CWM | ISDB,ON | | 1AJ | 6706 |
| | | | | | | 1AJ | 6707 |
| 3242 | 0100 3242 | ISD | SUBR | | ENTRY/EXIT | 1AJ | 6708 |
| 3244 | 3402 | | STD | T2 | SET COMMAND ADDRESS | V23L617 | 647 |
| 3245 | 1631 | | ADN | 5*5 | SET END OF MESSAGE ADDRESS | 1AJ | 6710 |
| 3246 | 3403 | | STD | T3 | | 1AJ | 6711 |
| 3247 | 2000 0000 | | LDC | 0 | | 1AJ | 6712 |
| | | 3250 | ISDA | EQU | *-1 | 1AJ | 6713 |
| 3251 | 0555 | | NJN | ISD2 | IF COMMAND BEING ISSUED VIA *MSG* CALL | V23L617 | 648 |
| 3252 | 4003 | ISD1 | LDI | T3 | SAVE END OF MESSAGE BYTE | 1AJ | 6715 |
| 3253 | 3417 | | STD | T9 | | 1AJ | 6716 |

| | | | | | | | |
|------|------|------|---------|---------|---|---------|------|
| 3254 | 1400 | | LDN | 0 | ENSURE END OF MESSAGE | 1AJ | 6717 |
| 3255 | 4403 | | STI | T3 | | 1AJ | 6718 |
| 3256 | 3002 | | LDD | T2 | ISSUE COMMAND TO DAYFILE | V23L617 | 649 |
| 3257 | 0200 | 0423 | RJM | DFM | | 1AJ | 6720 |
| 3261 | 3017 | | LDD | T9 | | 1AJ | 6721 |
| 3262 | 0457 | | ZJN | ISDX | IF COMMAND .LE. 50 CHARACTERS | V23L617 | 650 |
| 3263 | 4403 | | STI | T3 | | 1AJ | 6723 |
| 3264 | 3003 | | LDD | T3 | ISSUE REMAINDER OF COMMAND | V23L617 | 651 |
| 3265 | 2301 | 0000 | LMC | NMSN | | 1AJ | 6725 |
| 3267 | 0200 | 0423 | RJM | DFM | | 1AJ | 6726 |
| | | | * | LDN | 0 | 1AJ | 6727 |
| 3271 | 0350 | | UJN | ISDX | RETURN | 1AJ | 6728 |
| | | | | | | 1AJ | 6729 |
| | | | | | | 1AJ | 6730 |
| 3272 | 1523 | | ISDB | VFD | 18/0LMSG,6/0,12/0,12/4000,12/0 | 1AJ | 6731 |
| 3273 | 0700 | | | | | | |
| 3274 | 0000 | | | | | | |
| 3275 | 4000 | | | | | | |
| 3276 | 0000 | | | | | | |
| | | | ** | | MSR - MASS STORAGE ERROR PROCESSING. | 242L642 | 376 |
| | | | * | | | 242L642 | 377 |
| | | | * | EXIT | TO *1RJ* IF JOB ROLLABLE AND RECOVERABLE ERROR. | 242L642 | 378 |
| | | | * | | TO CALLER IF JOB NOT ROLLABLE OR NONRECOVERABLE | 242L642 | 379 |
| | | | * | | ERROR. | 242L642 | 380 |
| | | | | | | 242L642 | 381 |
| 3277 | 0100 | 3277 | MSR | SUBR | ENTRY/EXIT | 242L642 | 382 |
| 3301 | 0200 | 0535 | | ENDMS | | 242L642 | 383 |
| 3303 | 5000 | 0103 | LDM | RDCT | CHECK NON-RECOVERABLE MASS STORAGE ERROR | 242L642 | 384 |
| 3305 | 1007 | | SHN | 21-12 | | 242L642 | 385 |
| 3306 | 0770 | | MJN | MSRX | IF NON-RECOVERABLE | 242L642 | 386 |
| 3307 | 5000 | 0110 | LDM | MSD | CHECK FOR SUBSYSTEM | 242L642 | 387 |
| 3311 | 1006 | | SHN | 21-13 | | 242L642 | 388 |
| 3312 | 0664 | | PJN | MSRX | IF A SUBSYSTEM, ABORT JOB | 242L642 | 389 |
| 3313 | 3005 | | LDD | T5 | SET EQUIPMENT TO WAIT FOR | 242L642 | 390 |
| 3314 | 3454 | | STD | IR+4 | | 242L642 | 391 |
| 3315 | 1400 | | MSRA | LDN | 0 | 273L780 | 1 |
| | | | * | LDN | 1 | 273L780 | 2 |
| 3316 | 0505 | | NJN | MSR1 | IF JOB ADVANCE NOT SET | 242L642 | 393 |
| 3317 | 3411 | | STD | CM+1 | CLEAR JOB ADVANCE | 242L642 | 394 |
| 3320 | 1463 | | MONITOR | JACM | | 242L642 | 395 |
| 3323 | 2034 | 2212 | MSR1 | EXECUTE | 1RJ | 242L642 | 396 |
| | | | * | LJM | PPR | 242L642 | 397 |

| | | | | | | | | |
|----|----|------|-----------|--|--------------|-------------------------------|-----|------|
| | ** | | | RAS - RESET AFTER *SSJ=* JOB. | | | 1AJ | 6733 |
| | * | | | | | | 1AJ | 6734 |
| | * | | | EXIT IF *SSJ=* JOB, CONTROL POINT AREA RESTORED, | | | 1AJ | 6735 |
| 1 | * | | | FILES WITH SPECIAL ID SET ARE DROPPED. | | | 1AJ | 6736 |
| 2 | * | | | | | | 1AJ | 6737 |
| 3 | * | | | USES CM - CM+4. | | | 1AJ | 6738 |
| 4 | * | | | | | | 1AJ | 6739 |
| 5 | * | | | CALLS /3AF/RCF, *3AF*. | | | 1AJ | 6740 |
| 6 | * | | | | | | 1AJ | 6741 |
| 7 | * | | | MACROS EXECUTE. | | | 1AJ | 6742 |
| 8 | | | | | | | 1AJ | 6743 |
| 9 | | | | | | | 1AJ | 6744 |
| 10 | | 3327 | 0100 3327 | RAS | SUBR | ENTRY/EXIT | 1AJ | 6745 |
| 11 | | 3331 | 3074 | | LDD CP | CHECK FOR *SSJ=* STATUS | 1AJ | 6746 |
| 12 | | 3332 | 2100 0105 | | ADC SEPW | | 1AJ | 6747 |
| 13 | | 3334 | 6010 | | CRD CM | | 1AJ | 6748 |
| 14 | | 3335 | 3010 | | LDD CM | | 1AJ | 6749 |
| 15 | | 3336 | 1017 | | SHN 21-2 | | 1AJ | 6750 |
| 16 | | 3337 | 0667 | | PJN RASX | IF NOT *SSJ=* JOB | 1AJ | 6751 |
| 17 | | 3340 | 2036 0106 | | EXECUTE 3AF | | 1AJ | 6752 |
| 18 | | 3344 | 1401 | | LDN 1 | JOB IS BOTH *SSJ=* AND *DMP=* | 1AJ | 6753 |
| 19 | | 3345 | 0200 5203 | | RJM /3AF/RCF | RESTORE CONTROL POINT FIELDS | 1AJ | 6754 |
| 20 | | 3347 | 0357 | | UJN RASX | RETURN | 1AJ | 6755 |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | ** | | | RQC - REQUEST CENTRAL MEMORY. | | | 1AJ | 6757 |
| 26 | * | | | | | | 1AJ | 6758 |
| 27 | * | | | ENTRY (A) = STORAGE REQUEST. | | | 1AJ | 6759 |
| 28 | * | | | | | | 1AJ | 6760 |
| 29 | * | | | EXIT (A) = 0 IF STORAGE ASSIGNED. | | | 1AJ | 6761 |
| 30 | * | | | (A) .LT. 0 IF STORAGE NOT AVAILABLE. | | | 1AJ | 6762 |
| 31 | * | | | (A) .GT. 0 IF STORAGE REQUEST PENDING. | | | 1AJ | 6763 |
| 32 | * | | | | | | 1AJ | 6764 |
| 33 | * | | | USES T1. | | | 1AJ | 6765 |
| 34 | * | | | | | | 1AJ | 6766 |
| 35 | * | | | CALLS RSI. | | | 1AJ | 6767 |
| 36 | | | | | | | 1AJ | 6768 |
| 37 | | | | | | | 1AJ | 6769 |
| 38 | | 3350 | 0100 3350 | RQC | SUBR | ENTRY/EXIT | 1AJ | 6770 |
| 39 | | 3352 | 0502 | | NJN RQC1 | IF NOT 0 FL | 1AJ | 6771 |
| 40 | | 3353 | 1401 | | LDN 1 | | 1AJ | 6772 |
| 41 | | 3354 | 3401 | RQC1 | STD T1 | | 1AJ | 6773 |
| 42 | | 3355 | 3256 | | SBD FL | | 1AJ | 6774 |
| 43 | | 3356 | 0471 | | ZJN RQCX | IF NO CHANGE | 1AJ | 6775 |
| 44 | | 3357 | 0704 | | MJN RQC2 | IF DECREASE | 1AJ | 6776 |
| 45 | | 3360 | 1477 | | LDN PSNI | FORCE CLEAR OF MEMORY | 1AJ | 6777 |
| 46 | | 3361 | 5400 2201 | | STM BCPH | | 1AJ | 6778 |
| 47 | | 3363 | 3001 | RQC2 | LDD T1 | SET FL REQUIRED | 1AJ | 6779 |
| 48 | | 3364 | 0200 4273 | | RJM RSI | REQUEST STORAGE | 1AJ | 6780 |
| 49 | | 3366 | 0361 | | UJN RQCX | RETURN | 1AJ | 6781 |
| 50 | | | | | | | | |
| 51 | | | | | | | | |
| 52 | | | | | | | | |
| 53 | | | | | | | | |
| 54 | | | | | | | | |
| 55 | | | | | | | | |
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**      RQE - REQUEST EXTENDED CORE STORAGE.          1AJ      6783
*
*      ENTRY  (A) = STORAGE REQUEST.                  1AJ      6784
*      (RQSF) = ROLLOUT ALLOWED FLAG.                 1AJ      6785
*
*      EXIT   (A) = 0 IF STORAGE ASSIGNED.            1AJ      6787
*      (A) .LT. 0 IF STORAGE UNAVAILABLE.             1AJ      6788
*      (A) .GT. 0 IF STORAGE REQUEST PENDING.        1AJ      6789
*
*      USES   T1, CM - CM+4.                          1AJ      6790
*
*      CALLS  REI.                                    1AJ      6791

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| Address | Subr | Code | Subr | Description | Code | Address |
|---------|------|------|------|-------------|---------|---------|
| 3367 | 0100 | 3367 | RQE | ENTRY/EXIT | 1AJ | 6797 |
| 3371 | 3401 | | STD | T1 | 1AJ | 6798 |
| 3372 | 0411 | | ZJN | RQE1 | 1AJ | 6799 |
| 3373 | 5000 | 3507 | LDM | RQSF | 1AJ | 6800 |
| 3375 | 0506 | | NJN | RQE1 | 1AJ | 6801 |
| 3376 | 1445 | | LDN | SSTL | V23L617 | 652 |
| 3377 | 6010 | | CRD | CM | 1AJ | 6803 |
| 3400 | 3010 | | LDD | CM | 1AJ | 6804 |
| 3401 | 1014 | | SHN | 21-5 | 1AJ | 6805 |
| 3402 | 0764 | | MJN | RQEX | V23L617 | 653 |
| 3403 | 3074 | | RQE1 | LDD | V23L617 | 654 |
| 3404 | 1625 | | ADN | ECSW | 1AJ | 6808 |
| 3405 | 6010 | | CRD | CM | 1AJ | 6809 |
| 3406 | 3001 | | LDD | T1 | 1AJ | 6810 |
| 3407 | 3214 | | SBD | CM+4 | 1AJ | 6811 |
| 3410 | 0456 | | ZJN | RQEX | 1AJ | 6812 |
| 3411 | 0717 | | MJN | RQE2 | 1AJ | 6813 |
| 3412 | 5400 | 2537 | STM | CSTD | 1AJ | 6814 |
| 3414 | 3014 | | LDD | CM+4 | 1AJ | 6815 |
| 3415 | 5400 | 2534 | STM | CSTC | 1AJ | 6816 |
| 3417 | 1477 | | LDN | PSNI | 1AJ | 6817 |
| 3420 | 5400 | 2532 | STM | CSTB | V23L617 | 655 |
| 3422 | 5400 | 2201 | STM | BCPH | 1AJ85 | 2 |
| 3424 | 2000 | 1200 | LDC | LPNI | 1AJ85 | 3 |
| 3426 | 5400 | 2211 | STM | BCPN | 1AJ85 | 4 |
| 3430 | 3001 | | RQE2 | LDD | V23L617 | 656 |
| 3431 | 0200 | 4205 | RJM | REI | 1AJ | 6820 |
| 3433 | 0100 | 3367 | LJM | RQEX | 1AJ | 6821 |

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| | | | | | | | | |
|----|----|------|-----------|------|---|---------------|-----|---------------------------------------|
| | ** | | | | RQS - REQUEST STORAGE. | | 1AJ | 6823 |
| | * | | | | | | 1AJ | 6824 |
| | * | | | | ENTRY (RQSD) = STORAGE REQUEST. | | 1AJ | 6825 |
| | * | | | | (RQSE) = EXTENDED MEMORY REQUEST FOR *DMP=* ROLLIN. | V23L617 | | 657 |
| | * | | | | (RQSF) = ROLLOUT ALLOWED FLAG. | | 1AJ | 6827 |
| | * | | | | | | 1AJ | 6828 |
| | * | | | | EXIT IF STORAGE ASSIGNED. | | 1AJ | 6829 |
| | * | | | | TO *DPP* IF REQUEST PENDING OF UNAVAILABLE. | | 1AJ | 6830 |
| | * | | | | | | 1AJ | 6831 |
| | * | | | | USES T1, CM - CM+4, CN - CN+4. | | 1AJ | 6832 |
| | * | | | | | | 1AJ | 6833 |
| | * | | | | CALLS RLS, RQC, RQE. | | 1AJ | 6834 |
| | * | | | | | | 1AJ | 6835 |
| | * | | | | MACROS MONITOR. | | 1AJ | 6836 |
| | | | | | | | 1AJ | 6837 |
| | | | | | | | 1AJ | 6838 |
| 14 | | 3435 | 0100 3435 | | RQS | SUBR | | ENTRY/EXIT |
| 15 | | 3437 | 1400 | | RQSA | LDN 0 | | |
| 16 | | | | * | | LDN 1 | | (*DMP=* PROCESSING) |
| 17 | | 3440 | 0530 | | | NJN RQS4 | | IF *DMP=* ROLLIN |
| 18 | | 3441 | 3074 | | | LDD CP | | READ ECS STATUS AND CONTROL WORDS |
| 19 | | 3442 | 1625 | | | ADN ECSW | | |
| 20 | | 3443 | 6010 | | | CRD CM | | |
| 21 | | 3444 | 1637 | | | ADN ELCW-ECSW | | |
| 22 | | 3445 | 6025 | | | CRD CN | | |
| 23 | | 3446 | 3026 | | | LDD CN+1 | | |
| 24 | | 3447 | 0505 | | RQSB | NJN RQS1 | | IF EXTENDED MEMORY REQUEST PRESENT |
| 25 | | | | * | | PSN | | (*DMP=* PROGRAM LOAD) |
| 26 | | 3450 | 3014 | | | LDD CM+4 | | |
| 27 | | 3451 | 0514 | | RQSC | NJN RQS2 | | IF EXTENDED MEMORY CURRENTLY ASSIGNED |
| 28 | | | | * | | UJN RQS3 | | (*DMP=* PROGRAM LOAD) |
| 29 | | | | * | | NJN RQS0 | | (EXTENDED MEMORY PROTECT SELECTED) |
| 30 | | 3452 | 0316 | | | UJN RQS4 | | PROCESS CENTRAL MEMORY REQUEST |
| 31 | | | | | | | 1AJ | 6854 |
| 32 | | 3453 | 3426 | | RQS0 | STD CN+1 | | SET REQUESTED FILE TO CURRENT FILE |
| 33 | | 3454 | 2000 0100 | | RQS1 | LDC MCMX/100 | | |
| 34 | | 3456 | 5200 3471 | | | SBM RQSD | | |
| 35 | | 3460 | 0705 | | | MJN RQS2 | | IF REQUEST .GE. MINIMUM CM WITH ECS |
| 36 | | 3461 | 2000 0100 | | | LDC MCMX/100 | | |
| 37 | | 3463 | 5400 3471 | | | STM RQSD | | FORCE FL UP TO MINIMUM |
| 38 | | 3465 | 3026 | | RQS2 | LDD CN+1 | | |
| 39 | | 3466 | 5400 3476 | | RQS3 | STM RQSE | | SET EXTENDED MEMORY REQUEST |
| 40 | | 3470 | 2000 0000 | | RQS4 | LDC ** | | |
| 41 | | | | | | RQSD EQU *-1 | | |
| 42 | | 3472 | 0200 3351 | 3471 | | RJM RQC | | REQUEST CENTRAL MEMORY |
| 43 | | 3474 | 0510 | | | NJN RQS5 | | IF CM NOT ASSIGNED |
| 44 | | 3475 | 2000 0000 | | | LDC 0 | | |
| 45 | | | | | | RQSE EQU *-1 | | |
| 46 | | 3477 | 0200 3370 | | | RJM RQE | | REQUEST EXTENDED MEMORY |
| 47 | | 3501 | 0503 | | | NJN RQS5 | | IF EXTENDED MEMORY NOT ASSIGNED |
| 48 | | 3502 | 0100 3435 | | | LJM RQSX | | RETURN WITH STORAGE ASSIGNED |
| 49 | | | | | | | 1AJ | 6871 |
| 50 | | 3504 | 1056 | | RQS5 | SHN -21 | | |
| 51 | | 3505 | 3401 | | | STD T1 | | |
| 52 | | 3506 | 2000 0000 | | | LDC ** | | |
| 53 | | | | | | RQSF EQU *-1 | | (= 0 IF ROLLOUT ALLOWED) |
| 54 | | 3510 | 0403 | 3507 | | ZJN RQS7 | | IF JOB ROLLABLE |
| 55 | | | | | | | 1AJ | 6877 |

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|------|-----------|-------|---------|--------------|---------------------------------------|---------|------|
| 3511 | 0100 3553 | RQS6 | LJM | RQS10 | RECALL *1AJ* | 1AJ | 6878 |
| 3513 | 3001 | RQS7 | LDD | T1 | | 1AJ | 6879 |
| 3514 | 0474 | | ZJN | RQS6 | IF REQUEST PENDING | 1AJ | 6881 |
| 3515 | 1400 | | LDN | 0 | IF NOT *TCS* CALL | 242L642 | 398 |
| | | * | LDN | 1 | IF *TCS* CALL | 242L642 | 399 |
| | | 3515 | RQSG | EQU | *-1 | 242L642 | 400 |
| 3516 | 0511 | | NJN | RQS9 | IF *TCS* CALL, DO NOT RELEASE STORAGE | 1AJ | 6885 |
| 3517 | 2400 | | RQSJ | PSN | | 1AJ87 | 3 |
| | | * | UJN | RQS8 | (EXTENDED MEMORY PROTECT SELECTED) | 1AJ87 | 4 |
| 3520 | 0200 4247 | | RJM | RLS | RELEASE STORAGE | 1AJ | 6892 |
| 3522 | 0305 | | UJN | RQS9 | ROLLOUT JOB | 1AJ | 6893 |
| | | | | | | 1AJ | 6894 |
| 3523 | 2000 0100 | RQS8 | LDC | MCMX/100 | REDUCE TO MINIMUM CM | 1AJ | 6895 |
| 3525 | 0200 3351 | | RJM | RQC | | 1AJ | 6896 |
| 3527 | 3074 | RQS9 | LDD | CP | SET ROLLIN FL | 1AJ | 6897 |
| 3530 | 1623 | | ADN | FLSW | | 1AJ | 6898 |
| 3531 | 6010 | | CRD | CM | | 1AJ | 6899 |
| 3532 | 1642 | | ADN | FLIW-FLSW | | 1AJ | 6900 |
| 3533 | 6025 | | CRD | CN | | 1AJ | 6901 |
| 3534 | 3010 | | LDD | CM | | 1AJ | 6902 |
| 3535 | 5100 3471 | | ADM | RQSD | | 1AJ | 6903 |
| 3537 | 3431 | | STD | CN+4 | | 1AJ | 6904 |
| 3540 | 5000 3476 | | LDM | RQSE | | 1AJ | 6905 |
| 3542 | 3430 | | STD | CN+3 | | 1AJ | 6906 |
| 3543 | 3074 | | LDD | CP | | 1AJ | 6907 |
| 3544 | 1665 | | ADN | FLIW | | 1AJ | 6908 |
| 3545 | 6225 | | CWD | CN | | 1AJ | 6909 |
| 3546 | 1400 | | LDN | 0 | ROLLOUT CP | 1AJ | 6910 |
| 3547 | 3411 | | STD | CM+1 | | 1AJ | 6911 |
| 3550 | 1476 | | MONITOR | ROCM | | 1AJ | 6912 |
| | | | | | | 1AJ | 6913 |
| | | * | | | ENTER PP INTO RECALL. | 1AJ | 6914 |
| | | | | | | 1AJ | 6915 |
| 3553 | 1400 | RQS10 | LDN | 0 | SET *JACM* OPTIONS | 273L780 | 3 |
| 3554 | 3411 | | STD | CM+1 | | 273L780 | 4 |
| 3555 | 1463 | | MONITOR | JACM | CLEAR JOB ADVANCE | 273L780 | 5 |
| 3560 | 1466 | | LDN | ZERL | CLEAR RECALL PARAMETERS | 273L780 | 6 |
| 3561 | 6010 | | CRD | CM | | 1AJ | 6917 |
| 3562 | 1401 | | LDN | CFIR | INDICATE STORAGE MOVE PENDING | 1AJ | 6918 |
| 3563 | 3410 | | STD | CM | | 1AJ | 6919 |
| 3564 | 3077 | | LDD | MA | ENTER PP INTO RECALL | 1AJ | 6920 |
| 3565 | 6250 | | CWD | IR | | 1AJ | 6921 |
| 3566 | 1601 | | ADN | 1 | | 1AJ | 6922 |
| 3567 | 6210 | | CWD | CM | | 1AJ | 6923 |
| 3570 | 1472 | | MONITOR | RECM | RECALL *1AJ* | 273L780 | 7 |
| 3573 | 0100 0257 | | LJM | PPR | EXIT TO PP RESIDENT | 1AJ | 6929 |
| | | | | | | 1AJ | 6930 |
| | | 22 | ERRNG | 37+RQSC-RQS3 | IF JUMP OUT OF RANGE | 1AJ | 6931 |
| | | | | | | 1AJ | 6932 |

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|--|----|------|------|------|----------------------------------|--------------|----------------------|---------------------------------------|---------|------|
| | ** | | | | SSC - SET SYSTEM CALL. | | | 1AJ | 6934 | |
| | * | | | | | | | 1AJ | 6935 | |
| | * | | | | ENTRY (A) = CALL INDEX. | | | 1AJ | 6936 | |
| | * | | | | | | | 1AJ | 6937 | |
| | * | | | | ERROR HANG IF PROGRAM NOT FOUND. | | | 1AJ | 6938 | |
| | * | | | | | | | 1AJ | 6939 | |
| | * | | | | USES AB - AB+4, CM+1, CM+2. | | | 241L630 | 99 | |
| | * | | | | | | | 1AJ | 6941 | |
| | * | | | | CALLS SCL. | | | 1AJ | 6942 | |
| | * | | | | | | | 1AJ | 6943 | |
| | * | | | | MACROS MONITOR. | | | 1AJ | 6944 | |
| | | | | | | | | 1AJ | 6945 | |
| | | | | | | | | 1AJ | 6946 | |
| | | 3575 | 2100 | 3642 | SSC | ADC | SSCB | SET NAME ADDRESS | 1AJ | 6947 |
| | | 3577 | 5400 | 3605 | | STM | SSCA | | 1AJ | 6948 |
| | | 3601 | 2000 | 2134 | | LDC | /ERR/EM22 | * UNIDENTIFIED PROGRAM FORMAT.* | 1AJ93 | 1 |
| | | 3603 | 3077 | | SSCC | LDD | MA | | 1AJ93 | 2 |
| | | | | | * | UJN | SSC2 | (SHELL LOAD IN PROGRESS) | 1AJ93 | 3 |
| | | 3604 | 6370 | 3604 | | CWM | *,ON | | 1AJ | 6950 |
| | | | | 3605 | SSCA | EQU | *-1 | | 1AJ | 6951 |
| | | 3606 | 1701 | | | SBN | 1 | | 1AJ | 6952 |
| | | 3607 | 6032 | | | CRD | AB | | 1AJ | 6953 |
| | | 3610 | 1401 | | | LDN | 1 | SET SYSTEM CALL FLAG | 1AJ | 6954 |
| | | 3611 | 3436 | | | STD | AB+4 | | 1AJ | 6955 |
| | | 3612 | 5000 | 3605 | | LDM | SSCA | CHECK PROGRAM TO BE LOADED | 1AJ | 6956 |
| | | 3614 | 2177 | 4135 | | ADC | -SSCB | | 1AJ | 6957 |
| | | 3616 | 1104 | | | LMN | BEGI | | 1AJ | 6958 |
| | | 3617 | 0405 | | | ZJN | SSC1 | IF *BEGIN* | 1AJ | 6959 |
| | | 3620 | 2000 | 0305 | | LDC | UJNI+CSTB-CSTA | | 1AJ | 6962 |
| | | 3622 | 5400 | 2525 | | STM | CSTA | | 1AJ | 6963 |
| | | 3624 | 0200 | 1426 | SSC1 | RJM | SCL | SEARCH CENTRAL LIBRARY | 1AJ | 6964 |
| | | 3626 | 1400 | | | LDN | 0 | | 241L630 | 100 |
| | | 3627 | 3412 | | | STD | CM+2 | SET NO ERROR FLAG | 241L630 | 101 |
| | | 3630 | 2000 | 3630 | | LDC | * | | 241L630 | 102 |
| | | 3632 | 3411 | | | STD | CM+1 | ADDRESS WHERE ERROR DETECTED | 241L630 | 103 |
| | | 3633 | 1421 | | | MONITOR | CHGM | CONDITIONAL HANG | 241L630 | 104 |
| | | 3636 | 2000 | 2224 | | LDC | /ERR/EM26 | * SYSTEM ROUTINE MISSING - XXXXXXXX * | 241L630 | 105 |
| | | 3640 | 0100 | 2723 | SSC2 | LJM | ERR1 | ISSUE ERROR MESSAGE | 1AJ93 | 4 |
| | | | | | | | | | 1AJ | 6967 |
| | | | 32 | | ERRNG | 37+CSTA-CSTB | IF JUMP OUT OF RANGE | | 1AJ | 6968 |
| | | | | | | | | | 1AJ | 6969 |
| | | | | | | | | | 1AJ | 6970 |
| | | 3642 | | | SSCB | BSS | 0 | | 1AJ | 6971 |
| | L | 0 | | | | LOC | 0 | | 1AJ | 6972 |
| | | | | | | | | | 1AJ | 6973 |
| | L | 0 | 1404 | | LDR= | VFD | 48/0LLDR= | | 1AJ | 6974 |
| | L | 1 | 2254 | | | | | | | |
| | L | 2 | 0000 | | | | | | | |
| | L | 3 | 0000 | | | | | | | |
| | L | 4 | 0205 | | BEGI | VFD | 48/0LBEGIN | | 1AJ | 6975 |
| | L | 5 | 0711 | | | | | | | |
| | L | 6 | 1600 | | | | | | | |
| | L | 7 | 0000 | | | | | | | |
| | L | 10 | 2314 | | SLDR | VFD | 48/0LSLDR= | | 1AJ | 6976 |
| | L | 11 | 0422 | | | | | | | |
| | L | 12 | 5400 | | | | | | | |
| | L | 13 | 0000 | | | | | | | |

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|------|-----------|--|------|-------|-------------|--|---------|------|
| 3723 | 3601 | | STK4 | AOD | T1 | | 1AJ | 7032 |
| 3724 | 3603 | | STK5 | AOD | T3 | ADVANCE BYTE ADDRESS | 1AJ | 7033 |
| 3725 | 5001 0001 | | | LDM | 1,T1 | | 1AJ | 7034 |
| 3727 | 1006 | | | SHN | 6 | | 1AJ | 7035 |
| 3730 | 4301 | | | LMI | T1 | | 1AJ | 7036 |
| 3731 | 1006 | | | SHN | 6 | | 1AJ | 7037 |
| 3732 | 4403 | | | STI | T3 | | 1AJ | 7038 |
| 3733 | 4001 | | | LDI | T1 | | 1AJ | 7039 |
| 3734 | 0566 | | | NJN | STK4 | IF NOT END OF BUFFER | 1AJ | 7040 |
| | | | | | | | 1AJ | 7041 |
| | | | * | | | ZERO FILL REMAINDER OF COMMAND BUFFER. | V23L617 | 672 |
| | | | | | | | 1AJ | 7043 |
| 3735 | 3603 | | STK6 | AOD | T3 | | 1AJ | 7044 |
| 3736 | 2300 4543 | | | LMC | CHAR+55*2 | | 1AJ | 7045 |
| 3740 | 0404 | | | ZJN | STK7 | IF END OF BUFFER | 1AJ | 7046 |
| 3741 | 1400 | | | LDN | 0 | CLEAR BYTE | 1AJ | 7047 |
| 3742 | 4403 | | | STI | T3 | | 1AJ | 7048 |
| 3743 | 0371 | | | UJN | STK6 | CLEAR NEXT BYTE | 1AJ | 7049 |
| | | | | | | | 1AJ | 7050 |
| 3744 | 1455 | | STK7 | LDN | CHAR-STMT | BUFFER ADDRESS INCREMENT | 1AJ | 7051 |
| 3745 | 0100 3657 | | | LJM | STKX | RETURN | 1AJ | 7052 |
| | | | | | | | | |
| | | | ** | | | TSS - TRANSLATE SCOPE PARAMETER. | 1AJ | 7054 |
| | | | * | | | | 1AJ | 7055 |
| | | | * | ENTRY | (AB - AB+4) | PARAMTER. | 1AJ | 7056 |
| | | | * | | ((CA)) | SEPARATOR. | 1AJ | 7057 |
| | | | * | | | | 1AJ | 7058 |
| | | | * | EXIT | (A) | 4 BIT SCOPE SEPARATOR CODE. | 1AJ | 7059 |
| | | | * | | | | 1AJ | 7060 |
| | | | * | USES | T1. | | 1AJ | 7061 |
| | | | | | | | 1AJ | 7062 |
| | | | | | | | 1AJ | 7063 |
| 3747 | 1617 | | TSS2 | ADN | 17 | | 1AJ | 7064 |
| | | | | | | | 1AJ | 7065 |
| 3750 | 0100 3750 | | TSS | SUBR | | ENTRY/EXIT | 1AJ | 7066 |
| 3752 | 4066 | | | LDI | CA | | 1AJ | 7067 |
| 3753 | 0473 | | | ZJN | TSS2 | IF TERMINATOR | 1AJ | 7068 |
| 3754 | 1410 | | | LDN | TSSL | TABLE LIMIT | 1AJ | 7069 |
| 3755 | 3401 | | | STD | T1 | | 1AJ | 7070 |
| 3756 | 3701 | | TSS1 | SOD | T1 | | 1AJ | 7071 |
| 3757 | 0767 | | | MJN | TSS2 | IF END OF TABLE | 1AJ | 7072 |
| 3760 | 5001 3771 | | | LDM | TSSA,T1 | TABLE ENTRY | 1AJ | 7073 |
| 3762 | 1277 | | | LPN | 77 | | 1AJ | 7074 |
| 3763 | 4366 | | | LMI | CA | | 1AJ | 7075 |
| 3764 | 0571 | | | NJN | TSS1 | IF NO MATCH | 1AJ | 7076 |
| 3765 | 5001 3771 | | | LDM | TSSA,T1 | SET CODE | 1AJ | 7077 |
| 3767 | 1071 | | | SHN | -6 | | 1AJ | 7078 |
| 3770 | 0357 | | | UJN | TSSX | RETURN | 1AJ | 7079 |
| | | | | | | | 1AJ | 7080 |
| | | | | | | | 1AJ | 7081 |
| | | | **** | | | SCOPE SEPARATOR EQUIVALENCES. | 1AJ | 7082 |
| 3771 | 0156 | | TSSA | VFD | 6/1,6/1R, | | 1AJ | 7083 |
| 3772 | 0254 | | | VFD | 6/2,6/1R= | | 1AJ | 7084 |
| 3773 | 0350 | | | VFD | 6/3,6/1R/ | | 1AJ | 7085 |

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| 3774 | 0451 | | VFD | 6/4,6/1R(| | 1AJ | 7086 |
| 3775 | 0545 | | VFD | 6/5,6/1R+ | | 1AJ | 7087 |
| 3776 | 0646 | | VFD | 6/6,6/1R- | | 1AJ | 7088 |
| 3777 | 0755 | | VFD | 6/7,6/1R | | 1AJ | 7089 |
| 4000 | 1077 | | VFD | 6/10B,6/1R; | | 1AJ | 7090 |
| | | 10 | TSSL | EQU | *-TSSA | 1AJ | 7091 |
| | | | | | **** | 1AJ | 7092 |
| | | | ** | RESIDENT COMMON DECKS. | | 1AJ | 7094 |
| | | | | | | 1AJ | 7095 |
| | | | | | | 1AJ | 7096 |
| 4001 | | | CTEXT | COMPCLX - CLEAR EXCHANGE PACKAGE. | | COMPCLX | 1 |
| | | 1 | PRR\$ | EQU | 1 | NS2748 | 33 |
| | | 1 | PIR\$ | EQU | 1 | NS2748 | 34 |
| | | 1 | SRR\$ | EQU | 1 | NS2748 | 35 |
| 4137 | | | CTEXT | COMPSRR - SET R-REGISTER. | | COMPSRR | 1 |
| 4204 | | | CTEXT | COMPREI - REQUEST ECS STORAGE INCREASE. | | COMPREI | 1 |
| 4236 | | | CTEXT | COMPRLS - RELEASE STORAGE. | | COMPRLS | 1 |
| 4265 | | | CTEXT | COMPRSI - REQUEST STORAGE INCREASE. | | COMPRSI | 1 |
| | | | QUAL | | | 1AJ | 7104 |
| | | | USE | BUFFERS | | 1AJ | 7105 |
| | | | | | | 1AJ | 7106 |
| 4334 | 0000 | | CON | 0 | COMMAND BUFFER | V23L617 | 673 |
| | | | | | (STMT) = 0 IF NO COMMAND | V23L617 | 674 |
| | | | | | | 1AJ | 7109 |
| | | 4411 | CHAR | EQU | STMT+55 | V23L617 | 675 |
| | | 4543 | CHARE | EQU | CHAR+55*2 | 1AJ119 | 1 |
| | | | | | | 1AJ | 7111 |
| | | 4543 | OVL | EQU | CHARE | 1AJ119 | 2 |
| | | 1530 | ERRNG | EPFW-OVL-5-ZAUL CHECK LENGTH OF *0AU* | | 1AJ | 7113 |
| | | | QUAL | * | | 1AJ | 7114 |

** INT - CONTINUATION OF INITIALIZATION ROUTINE.

| | | | | | | | | | |
|----|------|-----------|-------|---------|----------------------------|---------------------------------|--|---------|------|
| | | | | | | | | 241L630 | 108 |
| | | | | | | | | 241L630 | 109 |
| | | | | | | | | 1AJ | 7221 |
| 1 | 4335 | 0200 5177 | INT7 | RJM | CES | CHECK FOR *TCS* EXECUTE COMMAND | | V23L617 | 681 |
| 2 | 4337 | 0403 | | ZJN | INT8 | IF NOT EXECUTE COMMAND | | V23L617 | 682 |
| 3 | 4340 | 5600 3515 | | AOM | RQSG | SET *TCS* FLAG | | 1AJ | 7224 |
| 4 | 4342 | 0200 5212 | INT8 | RJM | CIJ | CHECK FOR INTERACTIVE JOB | | 1AJ | 7225 |
| 5 | 4344 | 0200 6764 | | RJM | CSC | CHECK *SHELL* CONTROL | | NS21000 | 490 |
| 6 | 4346 | 0200 5130 | | RJM | CCF | CLEAR CONTROL FIELDS | | 1AJ10 | 2 |
| 7 | 4350 | 0100 4425 | INT9 | UJP | INT15 | PROCESS *DMP=* | | 1AJ119 | 3 |
| 8 | | | | | | | | 1AJ | 7283 |
| 9 | 4352 | 3026 | INT10 | LDD | CN+1 | CHECK ERROR FLAG | | 1AJ | 7284 |
| 10 | 4353 | 0403 | | ZJN | INT11 | IF NO ERROR FLAG | | 1AJ | 7285 |
| 11 | 4354 | 0100 1234 | | LJM | DPP | DROP PPU | | 1AJ | 7286 |
| 12 | | | | | | | | 1AJ | 7287 |
| 13 | 4356 | 3060 | INT11 | LDD | CW | CHECK *DMP=* JOB | | 1AJ | 7288 |
| 14 | 4357 | 1015 | | SHN | 21-4 | | | 1AJ | 7289 |
| 15 | 4360 | 0706 | | MJN | INT12 | IF *DMP=* PRESENT | | 1AJ | 7290 |
| 16 | 4361 | 3052 | | LDD | IR+2 | | | 1AJ | 7291 |
| 17 | 4362 | 1104 | | LMN | 4 | | | 1AJ | 7292 |
| 18 | 4363 | 0431 | | ZJN | INT13 | IF READ FUNCTION | | 1AJ | 7293 |
| 19 | 4364 | 1101 | | LMN | 5&4 | | | 1AJ | 7294 |
| 20 | 4365 | 0462 | | ZJN | INT9 | IF EXECUTE FUNCTION | | 1AJ119 | 4 |
| 21 | 4366 | 2000 4377 | INT12 | LDC | INTA | TCS INCORRECT REQUEST | | V23L617 | 683 |
| 22 | 4370 | 0200 0423 | | RJM | DFM | | | 1AJ12 | 1 |
| 23 | 4372 | 1447 | | MONITOR | ABTM | ABORT JOB | | 1AJ12 | 2 |
| 24 | 4375 | 0100 0257 | | LJM | PPR | | | 1AJ12 | 3 |
| 25 | | | | | | | | 1AJ | 7298 |
| 26 | 4377 | 5524 | INTA | DATA | C* TCS INCORRECT REQUEST.* | | | 1AJ119 | 5 |
| 27 | | | | | | | | 1AJ119 | 6 |
| 28 | 4414 | 3053 | INT13 | LDD | IR+3 | CHECK ARGUMENT FORMAT | | 1AJ | 7299 |
| 29 | 4415 | 1006 | | SHN | 21-13 | | | 1AJ | 7300 |
| 30 | 4416 | 0605 | | PJN | INT14 | IF NOT SCOPE FORMAT | | 1AJ | 7301 |
| 31 | 4417 | 2077 3777 | | LDC | -4000B | CLEAR SCOPE FLAG | | 1AJ | 7302 |
| 32 | 4421 | 3553 | | RAD | IR+3 | | | 1AJ | 7303 |
| 33 | 4422 | 0303 | | UJN | INT15 | PROCESS *DMP=* | | 1AJ | 7304 |
| 34 | | | | | | | | 1AJ | 7305 |
| 35 | 4423 | 5600 2315 | INT14 | AOM | ARGA | SET KRONOS ARGUMENT CRACKING | | 1AJ | 7306 |
| 36 | | | | | | | | 1AJ | 7307 |
| 37 | | | * | | *DMP=* PROCESSING. | | | 1AJ | 7308 |
| 38 | | | | | | | | 1AJ | 7309 |
| 39 | 4425 | 3052 | INT15 | LDD | IR+2 | | | 1AJ | 7310 |
| 40 | 4426 | 0420 | | ZJN | INT18 | IF MONITOR CALL | | 1AJ | 7311 |
| 41 | 4427 | 1102 | | LMN | 2 | | | 1AJ | 7312 |
| 42 | 4430 | 0514 | | NJN | INT17 | IF NOT *DIS* CALL | | 1AJ | 7313 |
| 43 | 4431 | 3060 | INT16 | LDD | CW | | | 1AJ | 7314 |
| 44 | 4432 | 1015 | | SHN | 21-4 | | | 1AJ | 7315 |
| 45 | 4433 | 0611 | | PJN | INT17 | IF NO *DMP=* PRESENT | | 1AJ | 7316 |
| 46 | 4434 | 0200 3330 | | RJM | RAS | RESET AFTER *SSJ=* JOB | | 1AJ | 7317 |
| 47 | 4436 | 2036 0106 | | EXECUTE | 3AF | | | 1AJ | 7318 |
| 48 | 4442 | 0100 5522 | | LJM | /3AF/RFJ | RESET FORMER JOB | | 1AJ | 7319 |
| 49 | | | | | | | | 1AJ | 7320 |
| 50 | 4444 | 0100 4520 | INT17 | UJP | INT21 | CONTINUE | | 1AJ119 | 7 |
| 51 | | | | | | | | 1AJ | 7322 |
| 52 | 4446 | 3074 | INT18 | LDD | CP | | | 1AJ | 7323 |
| 53 | 4447 | 2100 0106 | | ADC | SPCW | READ CALL WORD | | 1AJ | 7324 |
| 54 | 4451 | 6025 | | CRD | CN | | | 1AJ | 7325 |

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| 4452 | 6032 | | CRD | AB | | 1AJ | 7326 | |
| 4453 | 3026 | | LDD | CN+1 | | 1AJ | 7327 | |
| 4454 | 1020 | | SHN | 21-1 | | 1AJ | 7328 | |
| 4455 | 0653 | | PJN | INT16 | IF NOT *1R0* COMPLETION | 1AJ | 7329 | |
| 4456 | 1400 | | LDN | 0 | DISABLE *RFL* EXTENDED MEMORY CONTROL | V23L617 | 684 | |
| 4457 | 5400 | 3447 | STM | RQSB | | 1AJ | 7331 | |
| 4461 | 2000 | 0315 | LDC | UJNI+RQS3-RQSC | PRESERVE ECS FOR *DMP=* PROGRAM | 1AJ | 7332 | |
| 4463 | 5400 | 3451 | STM | RQSC | | 1AJ | 7333 | |
| 4465 | 3025 | | LDD | CN | | 1AJ | 7334 | |
| 4466 | 1177 | | LMN | 77 | | 1AJ | 7335 | |
| 4467 | 0407 | | ZJN | INT20 | IF COMMAND CALL | V23L617 | 685 | |
| 4470 | 2036 | 0106 | EXECUTE | 3AF | | 1AJ | 7337 | |
| 4474 | 0100 | 6314 | LJM | /3AF/IDP | INITIALIZE *DMP=* PROGRAM LOAD | 1AJ | 7338 | |
| | | | | | | 1AJ | 7339 | |
| 4476 | 2000 | 0320 | INT20 | LDC | UJNI+BCP19-BCPG | 1AJ | 7342 | |
| 4500 | 5400 | 2175 | STM | BCPG | BYPASS CLEAR OF MEMORY | 1AJ | 7343 | |
| 4502 | 3074 | | LDD | CP | RESET INPUT REGISTER | 1AJ | 7344 | |
| 4503 | 2100 | 0105 | ADC | SEPW | | 1AJ | 7345 | |
| 4505 | 6050 | | CRD | IR | | 1AJ | 7346 | |
| 4506 | 3051 | | LDD | IR+1 | | 1AJ | 7347 | |
| 4507 | 1377 | | SCN | 77 | | 1AJ | 7348 | |
| 4510 | 3451 | | STD | IR+1 | | 1AJ | 7349 | |
| 4511 | 3074 | | LDD | CP | | 1AJ | 7350 | |
| 4512 | 1070 | | SHN | -7 | | 1AJ | 7351 | |
| 4513 | 3551 | | RAD | IR+1 | | 1AJ | 7352 | |
| 4514 | 2000 | 1661 | LDC | BCP3 | | 1AJ | 7353 | |
| 4516 | 5400 | 1636 | STM | BCPA+1 | | 1AJ | 7354 | |
| 4520 | 3052 | | INT21 | LDD | IR+2 | 1AJ | 7364 | |
| 4521 | 1104 | | LMN | 4 | | 1AJ | 7365 | |
| 4522 | 0503 | | NJN | INT22 | IF NOT COMMAND READ | V23L617 | 686 | |
| 4523 | 0100 | 5472 | LJM | RCA | READ COMMAND TO ADDRESS | V23L617 | 687 | |
| | | | | | | 1AJ | 7368 | |
| 4525 | 3074 | | INT22 | LDD | CP | READ APPLICATION ACCOUNTING CONTROL WORD | 1AJ84 | 1 |
| 4526 | 1662 | | ADN | FPFW | | 1AJ84 | 2 | |
| 4527 | 6003 | | CRD | T3 | | 1AJ84 | 3 | |
| 4530 | 3003 | | LDD | T3 | CHECK FOR ACCOUNTING IN PROCESS | 1AJ84 | 4 | |
| 4531 | 2200 | 1400 | LPC | 1400 | | 1AJ84 | 5 | |
| 4533 | 0406 | | ZJN | INT22.1 | IF APPLICATION ACCOUNTING NOT SET | 1AJ84 | 6 | |
| 4534 | 0200 | 7071 | RJM | IAA | ISSUE APPLICATION ACCOUNTING MESSAGE | 1AJ84 | 7 | |
| | | | | | | 1AJ119 | 8 | |
| | | | * | | THE CODE FOLLOWING THE *RJM RNC* AT *INT22.1* MUST NOT | 1AJ119 | 9 | |
| | | | * | | BE DESTROYED WHEN COMMANDS ARE READ. THE FOLLOWING CODE | 1AJ119 | 10 | |
| | | | * | | PREVENTS OVERLAP OF THE COMMAND BUFFERS INTO THIS AREA. | 1AJ119 | 11 | |
| | | | | | | 1AJ119 | 12 | |
| | | | -3 | IFMI | *-CHARE+2,2 | 1AJ119 | 13 | |
| 4536 | 0303 | | UJN | INT22.1 | READ NEXT COMMAND | 1AJ119 | 14 | |
| 4541 | | | ORG | CHARE-2 | ALLOW ROOM FOR COMMAND BUFFERS | 1AJ119 | 15 | |
| | | | | | | 1AJ119 | 16 | |
| 4541 | 0200 | 5747 | INT22.1 | RJM | RNC | READ NEXT COMMAND | 1AJ84 | 8 |
| 4543 | 0200 | 5422 | RJM | CSL | CHECK COMMAND LIMIT | V23L617 | 689 | |
| 4545 | 5000 | 4334 | LDM | STMT | | 1AJ | 7371 | |
| 4547 | 0505 | | NJN | INT23 | IF NOT EMPTY COMMAND BUFFER | V23L617 | 690 | |
| 4550 | | | INT22.2 | BSS | 0 | 1AJ99 | 1 | |
| 4550 | 0200 | 2651 | INTB | RJM | CAT | CLEAR ADDRESS FOR *TCS* EXECUTE COMMAND | V23L617 | 691 |
| | | | * | LJM | INT25 | (INTERACTIVE COMMANDS MONITORED) | V23L617 | 692 |
| 4552 | 0100 | 1231 | LJM | IST5 | STORE POINTERS | 1AJ | 7374 | |
| | | | | | | 1AJ | 7375 | |

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| Line | Address | Offset | Label | Operation | Description | NS | Count |
|------|---------|-----------|---------|-----------|---|---------|-------|
| | | | * | CLEAR | *0ST* SCP FLAG IN EJT ENTRY. | NS2738 | 25 |
| 1 | 4554 | 3045 | INT23 | SFA | EJT,JO | NS2738 | 26 |
| 2 | | | | ADK | JSNE | NS2738 | 27 |
| 3 | 4557 | 6010 | | CRD | CM | NS2738 | 28 |
| 4 | 4560 | 3014 | | LDD | CM+4 | NS2738 | 29 |
| 5 | 4561 | 2200 3777 | | LPC | 3777 CLEAR CHECK CONNECTIONS FLAG | NS2738 | 30 |
| 6 | 4563 | 3414 | | STD | CM+4 | NS2738 | 31 |
| 7 | 4564 | 3045 | | SFA | EJT,JO | NS2738 | 32 |
| 8 | | | | ADK | JSNE | NS2738 | 33 |
| 9 | 4567 | 6210 | | CWD | CM | NS2738 | 34 |
| 10 | | | * | REWIND | PRIMARY FILE. | NS2738 | 35 |
| 11 | | | | | | 1AJ11 | 36 |
| 12 | 4570 | 3074 | | LDD | CP READ FST ADDRESS FOR PRIMARY FILE | 1AJ11 | 3 |
| 13 | 4571 | 1672 | | ADN | TFSW | NS2738 | 4 |
| 14 | 4572 | 6020 | | CRD | FS | 1AJ11 | 6 |
| 15 | 4573 | 3021 | | LDD | FS+1 | 1AJ11 | 7 |
| 16 | 4574 | 0425 | | ZJN | INT23.1 IF NO PRIMARY FILE | 1AJ11 | 8 |
| 17 | 4575 | 3055 | | NFA | FS+1,R READ FST ENTRY FOR PRIMARY FILE | 1AJ11 | 9 |
| 18 | 4600 | 1601 | | ADN | FSTL | 1AJ11 | 10 |
| 19 | 4601 | 6025 | | CRD | CN | 1AJ11 | 11 |
| 20 | 4602 | 3027 | | LDD | CN+2 | 1AJ11 | 12 |
| 21 | 4603 | 0416 | | ZJN | INT23.1 IF NULL FILE | 1AJ11 | 13 |
| 22 | 4604 | 3026 | | LDD | CN+1 REWIND FILE | 1AJ11 | 14 |
| 23 | 4605 | 3427 | | STD | CN+2 | 1AJ11 | 15 |
| 24 | 4606 | 1401 | | LDN | FSMS | 1AJ11 | 16 |
| 25 | 4607 | 3430 | | STD | CN+3 | 1AJ11 | 17 |
| 26 | 4610 | 3031 | | LDD | CN+4 RESET STATUS | 1AJ11 | 18 |
| 27 | 4611 | 1377 | | SCN | 77 | 1AJ11 | 19 |
| 28 | 4612 | 1105 | | LMN | 5 | 1AJ11 | 20 |
| 29 | 4613 | 3431 | | STD | CN+4 SET FILE STATUS BYTE | 1AJ11 | 21 |
| 30 | 4614 | 3055 | | NFA | FS+1,R WRITE UPDATED FST ENTRY FOR PRIMARY FILE | 1AJ11 | 22 |
| 31 | 4617 | 1601 | | ADN | FSTL | 1AJ11 | 23 |
| 32 | 4620 | 6225 | | CWD | CN | 1AJ11 | 24 |
| 33 | 4621 | 3074 | INT23.1 | LDD | CP RESET ERROR PROCESSING LIMIT | NS2463 | 25 |
| 34 | 4622 | 1677 | | ADK | ACLW | NS2463 | 40 |
| 35 | 4623 | 6010 | | CRD | CM | NS2463 | 41 |
| 36 | 4624 | 2000 0777 | | LDK | EPRL | NS2463 | 42 |
| 37 | 4626 | 3410 | | STD | CM | NS2463 | 43 |
| 38 | 4627 | 3074 | | LDD | CP | NS2463 | 44 |
| 39 | 4630 | 1677 | | ADK | ACLW | NS2463 | 45 |
| 40 | 4631 | 6210 | | CWD | CM | NS2463 | 46 |
| 41 | 4632 | 0200 6634 | INTC | RJM | UPS UNPACK COMMAND | V23L617 | 47 |
| 42 | | | * | LJM | INT26 (*SHELL* CONTROL IN FORCE) | 694 | 30 |
| 43 | 4634 | 0431 | | ZJN | INT24 IF NOT POSSIBLE CONTINUATION COMMAND | V23L617 | 30 |
| 44 | 4635 | 5000 4411 | | LDM | CHAR | 1AJ92 | 695 |
| 45 | 4637 | 0503 | | ZJP | INT22.2 IF NULL LINE | 1AJ99 | 2 |
| 46 | 4642 | 1400 | | LDN | 0 FLAG POSSIBLE CONTINUATION COMMAND | 1AJ99 | 3 |
| 47 | 4643 | 5400 1506 | | STM | SCLC | 1AJ92 | 31 |
| 48 | 4645 | 5600 2454 | | AOM | CSEA FLAG POSSIBLE CONTINUATION COMMAND | 1AJ92 | 32 |
| 49 | 4647 | 0200 2571 | | RJM | AKW ASSEMBLE KEYWORD | 1AJ92 | 33 |
| 50 | 4651 | 0503 | INT23.2 | ZJP | TCS6 IF NO KEYWORD | 1AJ92 | 34 |
| 51 | 4654 | 0723 | | MJN | INT24.1 IF COMMENT COMMAND | 1AJ92 | 35 |
| 52 | 4655 | 2000 0000 | | ISTORE | SCLB,(ZJN SCLX) TERMINATE IF NOT *ARG=* | 1AJ92 | 36 |
| 53 | 4661 | 0200 2750 | | RJM | IPL INITIALIZE PROGRAM LOAD | 1AJ92 | 37 |
| 54 | 4663 | 0100 1105 | | LJM | TCS1 CONTINUE PROCESSING | 1AJ | 38 |
| 55 | | | | | | | 7383 |

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| Address | Code | Label | Op | Op2 | Op3 | Op4 | Description | 1AJ | 7384 |
|---------|------|-------|---------|--------|-------------------|---------|-----------------------------------|---------|------|
| 4665 | 0200 | 2571 | INT24 | RJM | AKW | | ASSEMBLE KEYWORD | 1AJ92 | 39 |
| 4667 | 0461 | | | ZJN | INT23.2 | | IF NO KEYWORD | 1AJ92 | 40 |
| 4670 | 0707 | | | MJN | INT24.1 | | IF COMMENT COMMAND | 1AJ92 | 41 |
| 4671 | 0200 | 6027 | | RJM | SSF | | SEARCH FOR SPECIAL FORMAT | 1AJ92 | 42 |
| 4673 | 0200 | 2750 | | RJM | IPL | | INITIALIZE PROGRAM LOAD | 1AJ92 | 43 |
| 4675 | 0100 | 1114 | | LJM | TCS3 | | LOAD PROGRAM | 1AJ92 | 44 |
| 4677 | 5000 | 1104 | INT24.1 | LDM | TCSA | | | 1AJ92 | 45 |
| 4701 | 0503 | | | ZJP | IST6 | | IF NO CHARGE REQUIRED | 1AJ92 | 47 |
| 4704 | 2000 | 1605 | | LDC | /ERR/EM06 | | * CHARGE COMMAND REQUIRED.* | 1AJ92 | 48 |
| 4706 | 0100 | 2723 | | LJM | ERR1 | | PROCESS ERROR | 1AJ92 | 49 |
| 4710 | 2000 | 1405 | INT25 | LDC | LDNI+MS2W-MS1W | ENABLE | *MS1W* COPY | NS21000 | 496 |
| 4712 | 5400 | 1777 | | STM | BCPK | | | NS21000 | 497 |
| 4714 | 3055 | | INT26 | NFA | SHCN | SET | *SHELL* CONTROLS | NS21000 | 498 |
| 4717 | 6032 | | | CRD | AB | | | NS21000 | 499 |
| 4720 | 2000 | 0000 | | ISTORE | SSCC | (UJN | SSC2) | 1AJ93A | 500 |
| 4724 | 3036 | | | LDD | AB+4 | SET | *SHELL* PROGRAM ACTIVE | 1AJ94 | 1 |
| 4725 | 2200 | 3777 | | LPC | 3777 | | | 1AJ94 | 2 |
| 4727 | 2300 | 4000 | | LMC | 4000 | | | 1AJ94 | 3 |
| 4731 | 3436 | | | STD | AB+4 | | | 1AJ94 | 4 |
| 4732 | 3055 | | | NFA | SHCN | | | NS21000 | 503 |
| 4735 | 6232 | | | CWD | AB | | | NS21000 | 504 |
| 4736 | 3036 | | | LDD | AB+4 | | | NS21000 | 505 |
| 4737 | 1014 | | | SHN | 21-5 | | | NS21000 | 506 |
| 4740 | 0705 | | | MJN | INT27 | IF | LOCAL FILE LOAD ALLOWED | NS21000 | 507 |
| 4741 | 2000 | 0302 | | LDC | UJNI+2 | DISABLE | LOCAL FILE LOAD | NS21000 | 508 |
| 4743 | 5400 | 1116 | | STM | TCSB | | | NS21000 | 509 |
| 4745 | 3036 | | INT27 | LDD | AB+4 | | | NS21000 | 510 |
| 4746 | 1015 | | | SHN | 21-4 | | | NS21000 | 511 |
| 4747 | 0705 | | | MJN | INT28 | IF | GLOBAL FILE LOAD ALLOWED | NS21000 | 512 |
| 4750 | 2000 | 0302 | | LDC | UJNI+2 | DISABLE | GLOBAL FILE LOAD | NS21000 | 513 |
| 4752 | 5400 | 1120 | | STM | TCSC | | | NS21000 | 514 |
| 4754 | 3036 | | INT28 | LDD | AB+4 | | | NS21000 | 515 |
| 4755 | 1016 | | | SHN | 21-3 | | | NS21000 | 516 |
| 4756 | 0705 | | | MJN | INT29 | IF | SYSTEM FILE LOAD ALLOWED | NS21000 | 517 |
| 4757 | 2000 | 0371 | | LDC | UJNI+77+SCLX-SCLE | DISABLE | SYSTEM FILE LOAD | NS21000 | 518 |
| 4761 | 5400 | 1433 | | STM | SCLE | | | NS21000 | 519 |
| 4763 | 2000 | 0352 | INT29 | LDC | UJNI+77-ARGC+ARG6 | DISABLE | ARGUMENT PROCESSING | NS21000 | 520 |
| 4765 | 5400 | 2306 | | STM | ARGC | | | NS21000 | 521 |
| 4767 | 2000 | 0321 | | LDC | UJNI+IST1-IST | DISABLE | COMMAND MESSAGE | V23L617 | 697 |
| 4771 | 5400 | 1152 | | STM | IST | | | NS21000 | 523 |
| 4773 | 2000 | 0707 | | LDC | MJNI+BCP9.1-BCPL | DISABLE | SEQUENCE NUMBER SKIP | NS21000 | 524 |
| 4775 | 5400 | 1746 | | STM | BCPL | | | NS21000 | 525 |
| 4777 | 1400 | | | LDN | 0 | | | 242L642 | 405 |
| 5000 | 5400 | 1361 | | STM | SPFA | | | 242L642 | 406 |
| 5002 | 5400 | 1362 | | STM | SPFA+1 | | | 242L642 | 407 |
| 5004 | 2000 | 2205 | | LDC | /ERR/EM25 | SET | *SHELL* ERROR TERMINATION MESSAGE | 1AJ50 | 1 |
| 5006 | 5400 | 1145 | | STM | TCSG | | | 1AJ92 | 50 |
| 5010 | 3036 | | | LDD | AB+4 | SET | *SHELL* ABORT OPTION | 1AJ50 | 3 |
| 5011 | 1012 | | | SHN | 21-7 | | | 1AJ50 | 4 |
| 5012 | 0613 | | | PJN | INT31 | IF | ABORT OPTION NOT SELECTED | 1AJ50 | 5 |
| 5013 | 2000 | 6210 | | LDC | CWDI+CM | | | 1AJ50 | 6 |
| 5015 | 5400 | 1143 | | STM | TCSF | | | 1AJ92 | 51 |
| 5017 | 1400 | | INT30 | LDN | 0 | ZERO | FILL PROGRAM NAME | 1AJ50 | 8 |
| 5020 | 3436 | | | STD | AB+4 | | | 1AJ50 | 9 |

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| 5021 | 0200 2750 | RJM | IPL | INITIALIZE PROGRAM LOAD | 1AJ92 | 52 |
| 5023 | 0100 1114 | LJM | TCS3 | PROCESS *SHELL* CONTROL | 1AJ92 | 53 |
| 5025 | 2000 1443 | INT31 | LDC | LDNI+SYET | 1AJ50 | 11 |
| 5027 | 5400 1206 | STM | ISTB | ABORT JOB IF *SHELL* LOAD ERROR | 1AJ50 | 12 |
| 5031 | 0365 | UJN | INT30 | PROCESS *SHELL* CONTROL | 1AJ50 | 13 |
| | | | | | 1AJ50 | 14 |

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|----|------|-----------|-------|--|------------------|-----------------------------|---------|------|
| | | | ** | DEFINE ORIGIN OF OVERLAY *3AF*. | | | 1AJ | 7405 |
| | | | | | | | 1AJ | 7406 |
| | | | | | | | 1AJ | 7407 |
| 1 | 5032 | 03AF | EQU | * | | | 1AJ | 7408 |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | ** | DEFINE ORIGIN OF ROUTINES. | | | 1AJ | 7410 |
| 7 | | | | | | | 1AJ | 7411 |
| 8 | | | | | | | 1AJ | 7412 |
| 9 | -267 | | ERRPL | OVL-* | OVERLAY CONFLICT | | 1AJ | 7413 |
| 10 | | | | | | | | |
| 11 | | | | | | | | |
| 12 | | | | | | | | |
| 13 | | | | | | | | |
| 14 | | | ** | ATX - ADVANCE TO EXIT COMMAND IF EXIT FLAG SET AND | | V23L617 | 699 | |
| 15 | | | * | CLEAR FLAG. IF EXIT FOUND DAYFILE MESSAGE IS ISSUED. | | 1AJ | 7416 | |
| 16 | | | * | | | 1AJ | 7417 | |
| 17 | | | * | ENTRY (SP - SP+4) = COMMAND POINTER. | | V23L617 | 700 | |
| 18 | | | * | | | 1AJ | 7419 | |
| 19 | | | * | EXIT (SP - SP+4) = UPDATED. | | 1AJ | 7420 | |
| 20 | | | * | TO *IST* IF EXIT FOUND. | | 1AJ | 7421 | |
| 21 | | | * | TO *IST5* IF NON-RECOVERABLE MASS STORAGE ERROR. | | 242L642 | 408 | |
| 22 | | | * | | | 1AJ | 7422 | |
| 23 | | | * | USES CM - CM+4. | | 1AJ | 7423 | |
| 24 | | | * | | | 1AJ | 7424 | |
| 25 | | | * | CALLS AKW, MSR, RCS, UPS. | | 242L642 | 409 | |
| 26 | | | | | | 1AJ | 7426 | |
| 27 | | | | | | 1AJ | 7427 | |
| 28 | 5032 | 3043 | ATX2 | LDD | SP+3 | | 1AJ | 7428 |
| 29 | 5033 | 3344 | | LMD | SP+4 | | 1AJ | 7429 |
| 30 | 5034 | 0532 | | NJN | ATX1 | IF BUFFER NOT EMPTY | 1AJ | 7430 |
| 31 | 5035 | 3041 | | LDD | SP+1 | | 1AJ | 7431 |
| 32 | 5036 | 1006 | | SHN | 21-13 | | 1AJ | 7432 |
| 33 | 5037 | 0627 | | PJN | ATX1 | IF NOT EOR ON COMMAND FILE | V23L617 | 701 |
| 34 | 5040 | 2000 2721 | | LDC | ERR | RESET ERROR EXIT FROM *ASN* | 1AJ93 | 5 |
| 35 | 5042 | 5400 2647 | | STM | ASNA | | 1AJ93 | 6 |
| 36 | | | | | | | 1AJ | 7434 |
| 37 | 5044 | 0100 5044 | ATX | SUBR | | ENTRY/EXIT | 1AJ | 7435 |
| 38 | 5046 | 3074 | | LDD | CP | CHECK EXIT FLAG | 1AJ | 7436 |
| 39 | 5047 | 1674 | | ADN | CSSW | | 1AJ | 7437 |
| 40 | 5050 | 6010 | | CRD | CM | | 1AJ | 7438 |
| 41 | 5051 | 3010 | | LDD | CM | | 1AJ | 7439 |
| 42 | 5052 | 1007 | | SHN | 21-12 | | 1AJ | 7440 |
| 43 | 5053 | 0670 | | PJN | ATXX | IF EXIT FLAG NOT SET | 1AJ | 7441 |
| 44 | 5054 | 2077 5777 | | LDC | -2000 | CLEAR SKIP TO EXIT FLAG | 1AJ | 7442 |
| 45 | 5056 | 3510 | | RAD | CM | | 1AJ | 7443 |
| 46 | 5057 | 3074 | | LDD | CP | | 1AJ | 7444 |
| 47 | 5060 | 1674 | | ADN | CSSW | | 1AJ | 7445 |
| 48 | 5061 | 6210 | | CWD | CM | | 1AJ | 7446 |
| 49 | 5062 | 2000 5066 | | LDC | ATX1 | RESET ERROR EXIT FROM ASN | 1AJ | 7447 |
| 50 | 5064 | 5400 2647 | | STM | ASNA | | 1AJ | 7448 |
| 51 | 5066 | 0200 6302 | ATX1 | RJM | RCS | READ COMMAND | V23L617 | 702 |
| 52 | 5070 | 0605 | | PJN | ATX1.1 | IF NO MASS STORAGE ERROR | 242L642 | 410 |
| 53 | 5071 | 0200 3300 | | RJM | MSR | PROCESS MASS STORAGE ERROR | 242L642 | 411 |
| 54 | 5073 | 0100 1231 | | LJM | IST5 | EXIT | 242L642 | 412 |

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| | 5075 | 5000 | 4334 | ATX1.1 | LDM | STMT | | 242L642 | 413 |
| | 5077 | 0503 | | | ZJP | ATX2 | IF POSSIBLE END OF COMMANDS | 242L642 | 414 |
| 1 | 5102 | 0200 | 6634 | | RJM | UPS | UNPACK COMMAND | 242L642 | 415 |
| 2 | 5104 | 0561 | | | NJN | ATX1 | IF NO TERMINATOR | V23L617 | 704 |
| 3 | 5105 | 0200 | 2571 | | RJM | AKW | ASSEMBLE KEYWORD | 1AJ | 7453 |
| 4 | 5107 | 3032 | | | LDD | AB | | 1AJ | 7454 |
| 5 | 5110 | 2300 | 0530 | | LMC | 2REX | | 1AJ | 7455 |
| 6 | 5112 | 0553 | | | NJN | ATX1 | IF NOT *EX* | 1AJ | 7456 |
| 7 | 5113 | 3033 | | | LDD | AB+1 | | 1AJ | 7457 |
| 8 | 5114 | 2300 | 1124 | | LMC | 2RIT | | 1AJ | 7458 |
| 9 | 5116 | 0547 | | | NJN | ATX1 | IF NOT *IT* | 1AJ | 7459 |
| 10 | 5117 | 3034 | | | LDD | AB+2 | | 1AJ | 7460 |
| 11 | 5120 | 0545 | | | NJN | ATX1 | IF NOT SEPARATOR | 1AJ | 7461 |
| 12 | 5121 | 2000 | 2721 | | LDC | ERR | RESET EXIT ADDRESS | 1AJ | 7462 |
| 13 | 5123 | 5400 | 2647 | | STM | ASNA | | 1AJ | 7463 |
| 14 | 5125 | 0100 | 1152 | | LJM | IST | ISSUE COMMAND | 1AJ | 7464 |
| | | | | | | | | V23L617 | 705 |
| 19 | | | | ** | | CCF - CLEAR CONTROL FIELDS. | | 1AJ10 | 4 |
| 20 | | | | * | | | | 1AJ10 | 5 |
| 21 | | | | * | EXIT | REPRIVE, ERROR EXIT, PP DUMP AND K-DISPLAY CONTROL | | 1AJ10 | 6 |
| 22 | | | | * | | FIELDS CLEARED. | | 1AJ10 | 7 |
| 23 | | | | * | | | | 1AJ10 | 8 |
| 24 | | | | * | USES | CN - CN+4, FS - FS+4. | | 1AJ10 | 9 |
| 25 | | | | | | | | 1AJ10 | 10 |
| 26 | | | | | | | | 1AJ10 | 11 |
| 27 | 5127 | 0100 | 5127 | CCF | SUBR | | ENTRY/EXIT | 1AJ10 | 12 |
| 28 | 5131 | 3074 | | | LDD | CP | CLEAR ERROR EXIT CONTROL WORD | 1AJ10 | 13 |
| 29 | 5132 | 1671 | | | ADN | EECW | | 1AJ10 | 14 |
| 30 | 5133 | 6020 | | | CRD | FS | | 1AJ10 | 15 |
| 31 | 5134 | 1624 | | | ADN | PPDW-EECW | CLEAR PP DUMP WORD | 1AJ10 | 16 |
| 32 | 5135 | 6025 | | | CRD | CN | | 1AJ10 | 17 |
| 33 | 5136 | 3023 | | | LDD | FS+3 | | 1AJ10 | 18 |
| 34 | 5137 | 1377 | | | SCN | 77 | | 1AJ10 | 19 |
| 35 | 5140 | 3423 | | | STD | FS+3 | | 1AJ10 | 20 |
| 36 | 5141 | 1400 | | | LDN | 0 | | 1AJ10 | 21 |
| 37 | 5142 | 3424 | | | STD | FS+4 | | 1AJ10 | 22 |
| 38 | 5143 | 3421 | | | STD | FS+1 | CLEAR REPRIEVE OPTIONS | 1AJ10 | 23 |
| 39 | 5144 | 3430 | | | STD | CN+3 | | 1AJ10 | 24 |
| 40 | 5145 | 3431 | | | STD | CN+4 | | 1AJ10 | 25 |
| 41 | 5146 | 3020 | | | LDD | FS | CLEAR EXTENDED REPRIEVE FLAGS | 1AJ10 | 26 |
| 42 | 5147 | 2200 | 4777 | | LPC | 4777 | | 1AJ10 | 27 |
| 43 | 5151 | 3420 | | | STD | FS | | 1AJ10 | 28 |
| 44 | 5152 | 3074 | | | LDD | CP | WRITE UPDATED EECW | 1AJ10 | 29 |
| 45 | 5153 | 1671 | | | ADN | EECW | | 1AJ10 | 30 |
| 46 | 5154 | 6220 | | | CWD | FS | | 1AJ10 | 31 |
| 47 | 5155 | 1624 | | | ADN | PPDW-EECW | | 1AJ10 | 32 |
| 48 | 5156 | 6225 | | | CWD | CN | | 1AJ10 | 33 |
| 49 | 5157 | 1466 | | | LDN | ZERL | | 1AJ10 | 34 |
| 50 | 5160 | 6025 | | | CRD | CN | | 1AJ10 | 35 |
| 51 | 5161 | 3074 | | | LDD | CP | READ K-DISPLAY WORD | 1AJ10 | 36 |
| 52 | 5162 | 2100 | 0111 | | ADC | DBAW | | 1AJ10 | 37 |
| 53 | 5164 | 6020 | | | CRD | FS | | 1AJ10 | 38 |
| 54 | 5165 | 3020 | | | LDD | FS | PRESERVE MEMORY FLAGS | 1AJ10 | 39 |

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|------|------|------|-----|---------------|---|---------|------|
| 5166 | 1377 | | SCN | 77 | | 1AJ10 | 40 |
| 5167 | 3425 | | STD | CN | | 1AJ10 | 41 |
| 5170 | 3074 | | LDD | CP | CLEAR K-DISPLAY INFORMATION | 1AJ10 | 42 |
| 5171 | 2100 | 0111 | ADC | DBAW | | 1AJ10 | 43 |
| 5173 | 6225 | | CWD | CN | | 1AJ10 | 44 |
| 5174 | 0100 | 5127 | LJM | CCFX | RETURN | 1AJ10 | 45 |
| | | | | | | | |
| | | | ** | | CES - CHECK FOR *TCS* EXECUTE COMMAND. | V23L617 | 706 |
| | | | * | | | 1AJ | 7468 |
| | | | * | | EXIT (A) = ADDRESS OF COMMAND IF ONE EXISTS. | V23L617 | 707 |
| | | | * | | | 1AJ | 7470 |
| | | | * | | USES CM - CM+4. | 1AJ | 7471 |
| | | | | | | 1AJ | 7472 |
| | | | | | | 1AJ | 7473 |
| 5176 | 0100 | 5176 | CES | SUBR | ENTRY/EXIT | 1AJ | 7474 |
| 5200 | 3074 | | LDD | CP | | 1AJ | 7475 |
| 5201 | 1675 | | ADN | RFCW | | 1AJ | 7476 |
| 5202 | 6010 | | CRD | CM | | 1AJ | 7477 |
| 5203 | 3013 | | LDD | CM+3 | FORM ADDRESS OF COMMAND | V23L617 | 708 |
| 5204 | 1377 | | SCN | 77 | | 1AJ | 7479 |
| 5205 | 1006 | | SHN | 6 | | 1AJ | 7480 |
| 5206 | 3312 | | LMD | CM+2 | | 1AJ | 7481 |
| 5207 | 1006 | | SHN | 6 | | 1AJ | 7482 |
| 5210 | 0365 | | UJN | CESX | RETURN | 1AJ | 7483 |
| | | | | | | | |
| | | | ** | | CIJ - CHECK FOR INTERACTIVE JOB. | 1AJ | 7485 |
| | | | * | | | 1AJ | 7486 |
| | | | * | | ENTRY (JO) = EJT ORDINAL. | 1AJ | 7487 |
| | | | * | | | 1AJ | 7488 |
| | | | * | | EXIT (BCPJ - BCPJ+1) = JOB SEQUENCE NUMBER. | 1AJ | 7489 |
| | | | * | | (BCPJ+4) = SERVICE CLASS. | 1AJ | 7490 |
| | | | * | | (TSTN) = TERMINAL NUMBER IF ORIGIN TYPE = *TXOT*, | 1AJ | 7491 |
| | | | * | | CONNECTION STATUS = *OLCS* AND *IAF* IS | 1AJ | 7492 |
| | | | * | | ACCESSIBLE. | 1AJ | 7493 |
| | | | * | | = 0 OTHERWISE. | 1AJ | 7494 |
| | | | * | | | 1AJ | 7495 |
| | | | * | | USES TN, CM - CM+4, T1 - T5. | NS2748 | 37 |
| | | | * | | | 1AJ | 7497 |
| | | | * | | CALLS AST, PIR, RRR, SRR, STA. | NS2748 | 38 |
| | | | * | | | 1AJ | 7499 |
| | | | * | | MACROS SFA. | 1AJ | 7500 |
| | | | | | | 1AJ | 7501 |
| | | | | | | 1AJ | 7502 |
| 5211 | 0100 | 5211 | CIJ | SUBR | ENTRY/EXIT | 1AJ | 7503 |
| 5213 | 3045 | | SFA | EJT,JO | READ JSN WORD OF EJT ENTRY | 1AJ | 7504 |
| | | | ADK | JSNE | | 1AJ | 7505 |
| 5216 | 6010 | | CRD | CM | | 1AJ | 7506 |
| 5217 | 6170 | 2254 | CRM | BCPJ,ON | SAVE JSN | 1AJ | 7507 |
| 5221 | 1602 | | ADN | //SCLE-JSNE-1 | READ SERVICE CLASS/ORIGIN TYPE | 1AJ | 7508 |
| 5222 | 6001 | | CRD | T1 | | 1AJ | 7509 |
| 5223 | 3001 | | LDD | T1 | SET SERVICE CLASS | 1AJ | 7510 |

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|------|-----------|------|-------|-----------------|--------------------------------|--------|------|
| 5224 | 1377 | | SCN | 77 | | 1AJ | 7511 |
| 5225 | 5400 2260 | | STM | BCPJ+4 | | 1AJ | 7512 |
| 5227 | 3001 | | LDD | T1 | | 1AJ | 7513 |
| 5230 | 1217 | | LPN | 17 | | 1AJ | 7514 |
| 5231 | 1103 | | LMK | IAOT | | NS2205 | 18 |
| 5232 | 0556 | | NJN | CIJX | IF NOT INTERACTIVE JOB | 1AJ | 7516 |
| 5233 | 3014 | | LDD | CM+4 | CHECK CONNECTION STATUS | 1AJ | 7517 |
| 5234 | 1070 | | SHN | -7 | | 1AJ | 7518 |
| 5235 | 1217 | | LPN | 17 | | 1AJ | 7519 |
| 5236 | 5400 3152 | | STM | IPLD | | NS2205 | 19 |
| 5240 | 1102 | | LMK | OLCS | | 1AJ | 7520 |
| 5241 | 0547 | | NJN | CIJX | IF NOT ON-LINE | 1AJ | 7521 |
| 5242 | 2000 7776 | | LDC | FECF*10000+IFSI | CHECK *IAF* ACCESSIBILITY | 1AJ | 7522 |
| 5244 | 0200 7364 | | RJM | AST | | 1AJ | 7523 |
| 5246 | 1006 | | SHN | 21-13 | | 1AJ | 7524 |
| 5247 | 0641 | CIJ1 | PJN | CIJX | IF *IAF* NOT ACCESSIBLE | 1AJ | 7525 |
| 5250 | 0200 5324 | | RJM | PIR | PRESET WITH IAF R-REGISTER | NS2748 | 39 |
| 5252 | 3074 | | LDD | CP | SET TERMINAL NUMBER | 1AJ | 7526 |
| 5253 | 1666 | | ADK | TTNW | | 1AJ | 7527 |
| 5254 | 6010 | | CRD | CM | | 1AJ | 7528 |
| 5255 | 3011 | | LDD | CM+1 | | 1AJ | 7529 |
| 5256 | 5400 3226 | | STM | IPLB+4 | | 1AJ | 7530 |
| 5260 | 3432 | | STD | TN | SAVE TERMINAL NUMBER FOR *STA* | 1AJ | 7531 |
| 5261 | 0200 4140 | | RJM | SRR | SET R-REGISTER TO IAF RA | NS2748 | 40 |
| 5263 | 0200 7541 | | RJM | STA | COMPUTE TERMINAL TABLE ADDRESS | 1AJ | 7536 |
| 5265 | 5400 3070 | | STM | IPLA | SAVE TERMINAL TABLE ADDRESS | 1AJ | 7537 |
| 5267 | 1063 | | SHN | -14 | | 1AJ | 7538 |
| 5270 | 5500 3067 | | RAM | IPLA-1 | | 1AJ | 7539 |
| 5272 | 1401 | | LDN | 1 | SET INTERACTIVE INDICATOR | NS2748 | 41 |
| 5273 | 5500 3061 | | RAM | IPLE | | NS2748 | 42 |
| 5275 | 0200 4156 | | RJM | RRR | RESTORE R-REGISTER | NS2748 | 43 |
| 5277 | 0347 | | UJN | CIJ1 | RETURN | 1AJ | 7540 |
| | | | | | | NS2748 | 44 |
| | | PRR | HERE | | FORCE ASSEMBLY OF *PRR* HERE | NS2748 | 45 |
| | | | | | | | |
| | | ** | CKA | | CHECK ADDRESS. | 1AJ | 7542 |
| | | * | | | | 1AJ | 7543 |
| | | * | ENTRY | (A) | = ADDRESS TO VALIDATE. | 1AJ | 7544 |
| | | * | | (T1) | = WORD COUNT. | 1AJ | 7545 |
| | | * | | | | 1AJ | 7546 |
| | | * | EXIT | (A) | = ABSOLUTE ADDRESS. | 1AJ | 7547 |
| | | * | | | | 1AJ | 7548 |
| | | * | ERROR | TO *IST2* | IF ADDRESS ERROR. | 1AJ | 7549 |
| | | * | | | | 1AJ | 7550 |
| | | * | USES | CM+3, CM+4. | | 1AJ | 7551 |
| | | * | | | | 1AJ | 7552 |
| | | * | CALLS | CAT. | | 1AJ | 7553 |
| | | | | | | 1AJ | 7554 |
| 5354 | 3013 | CKA2 | LDA | CM+3,M | LOAD ABSOLUTE ADDRESS | 1AJ | 7555 |
| 5362 | 0100 5362 | CKA | SUBR | | ENTRY/EXIT | 1AJ | 7558 |
| 5364 | 0712 | | MJN | CKA1 | IF .GT. 131K | 1AJ | 7559 |
| 5365 | 3414 | | STD | CM+4 | SAVE ADDRESS | 1AJ | 7560 |

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| 5366 | 1063 | | SHN | -14 | | | 1AJ | 7561 |
| 5367 | 3413 | | STD | CM+3 | | | 1AJ | 7562 |
| 5370 | 1014 | | SHN | 14 | VALIDATE ADDRESS | | 1AJ | 7563 |
| 5371 | 3314 | | LMD | CM+4 | | | 1AJ | 7564 |
| 5372 | 3101 | | ADD | T1 | | | 1AJ | 7565 |
| 5373 | 1071 | | SHN | -6 | | | 1AJ | 7566 |
| 5374 | 3256 | | SBD | FL | | | 1AJ | 7567 |
| 5375 | 0756 | | MJN | CKA2 | IF ADDRESS .LT. FL - WORD COUNT | | 1AJ | 7568 |
| 5376 | 2000 | 5405 | LDC | CKAA | SET MESSAGE ADDRESS | | 1AJ | 7569 |
| 5400 | 3446 | | STD | EF | | | 1AJ | 7570 |
| 5401 | 0200 | 2651 | RJM | CAT | CLEAR ADDRESS FOR *TCS* EXECUTE COMMAND | V23L617 | | 709 |
| 5403 | 0100 | 1202 | LJM | IST2 | ISSUE DAYFILE MESSAGE | 1AJ | | 7572 |
| | | | | | | 1AJ | | 7573 |
| | | | | | | 1AJ | | 7574 |
| 5405 | 5502 | | CKAA | DATA | C* BUFFER ARG. ERROR.* | 1AJ | | 7575 |
| | | | | | | | | |
| | | | ** | | CSL - CHECK COMMAND LIMIT. DECREMENT THE | V23L617 | | 710 |
| | | | * | | COMMAND LIMIT FIELD IN THE CONTROL POINT AREA. | V23L617 | | 711 |
| | | | * | | | 1AJ | | 7579 |
| | | | * | | ENTRY (SP - SP+4) = COMMAND POINTER. | V23L617 | | 712 |
| | | | * | | | 1AJ | | 7581 |
| | | | * | | EXIT TO *PPR*, IF COMMAND LIMIT EXCEEDED. | NS2388 | | 77 |
| | | | * | | | 1AJ | | 7586 |
| | | | * | | USES CM - CM+4. | 1AJ | | 7587 |
| | | | * | | | 1AJ | | 7588 |
| | | | * | | MACROS MONITOR. | 1AJ | | 7589 |
| | | | | | | 1AJ | | 7590 |
| | | | | | | 1AJ | | 7591 |
| 5420 | 3740 | | CSL1 | SOD | SP | NS2388 | | 78 |
| | | | | | | NS2025 | | 2 |
| 5421 | 0100 | 5421 | CSL | SUBR | ENTRY/EXIT | 1AJ | | 7592 |
| 5423 | 3040 | | LDD | SP | | NS2025 | | 3 |
| 5424 | 1201 | | LPN | 1 | | NS2025 | | 4 |
| 5425 | 0572 | | NJN | CSL1 | IF INHIBIT DECREMENT FLAG SET | NS2388 | | 79 |
| 5426 | 1403 | | LDN | 3 | DECREMENT COMMAND LIMIT | V23L617 | | 714 |
| 5427 | 3411 | | STD | CM+1 | SPECIFY MESSAGE BUFFER LENGTH | 1AJ | | 7594 |
| 5430 | 1401 | | LDN | 1 | | 1AJ | | 7595 |
| 5431 | 3412 | | STD | CM+2 | SPECIFY NO DROPPING OF PP | 1AJ | | 7596 |
| 5432 | 3077 | | LDD | MA | | 1AJ | | 7597 |
| 5433 | 6311 | 5453 | CWM | CSLA,CM+1 | | 1AJ | | 7598 |
| 5435 | 2000 | 0114 | MONITOR | UADM | | 1AJ | | 7599 |
| 5441 | 3011 | | LDD | CM+1 | STATUS RETURNED FROM UADM FUNCTION | 1AJ | | 7600 |
| 5442 | 1201 | | LPN | 1 | | 1AJ | | 7601 |
| 5443 | 0455 | | ZJN | CSLX | IF COMMAND LIMIT NOT EXCEEDED | V23L617 | | 715 |
| 5444 | 1413 | | LDN | CLET | SET COMMAND LIMIT ERROR | NS2388 | | 80 |
| 5445 | 3411 | | STD | CM+1 | | 1AJ | | 7613 |
| 5446 | 1454 | | MONITOR | CEFM | | NS2388 | | 81 |
| 5451 | 0100 | 0257 | LJM | PPR | EXIT TO PROCESS ERROR | NS2388 | | 82 |
| | | | | | | 1AJ | | 7635 |
| | | | | | | 1AJ | | 7636 |
| | | | * | | MESSAGE BUFFER STRUCTURE FOR UADM FUNCTION. | 1AJ | | 7637 |
| | | | | | | 1AJ | | 7638 |
| 5453 | 0014 | | CSLA | CON | CDOS | 1AJ | | 7639 |
| 5454 | 0077 | | CON | ACLW | RELATIVE CP AREA ADDRESS OF LIMIT FIELD | 1AJ | | 7640 |

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| 5455 | 3014 | CON | 24D*100+12D | POSITION AND WIDTH OF LIMIT FIELD | 1AJ | 7641 |
| 5456 | 0000 0000 | CON | 0,0 | | 1AJ | 7642 |
| 5460 | 0020 | CON | AISS | INCREMENT ACCOUNTING REGISTER, I/O SRU | 1AJ | 7643 |
| 5461 | 0053 | CON | IOAW | CP AREA WORD TO UPDATE | 1AJ | 7644 |
| 5462 | 5024 | CON | 40D*100+20D | MS ACCUMULATOR FIELD | 1AJ | 7645 |
| 5463 | 0000 | VFD | 6/,18/IMCS | INCREMENT VALUE | 1AJ | 7646 |
| 5464 | 0001 | | | | | 7647 |
| | | | | | NS2025 | 7 |
| 5465 | 0012 | CON | CIOS | INCREMENT INHIBIT LIMIT CHECK | NS2025 | 8 |
| 5466 | 0073 | CON | CSPW | CP AREA WORD ADDRESS | NS2025 | 9 |
| 5467 | 6001 | CON | 48D*100+1 | POSITION AND FIELD WIDTH | NS2025 | 10 |
| 5470 | 0000 0000 | CON | 0,0 | | NS2025 | 11 |
| | | | | | 1AJ | 7648 |
| | | ** | RCA | - READ COMMAND TO ADDRESS. | V23L617 | 725 |
| | | * | | | 1AJ | 7711 |
| | | * | ENTRY | (IR+3) = SUBFUNCTION CODE IN BITS 11 - 6. | 1AJ | 7712 |
| | | * | | BIT 11 = SCOPE CRACKING FLAG. | 1AJ | 7713 |
| | | * | | BIT 7 = LOCAL/GLOBAL FILE CALL FLAG. | NS2053 | 1 |
| | | * | | BIT 6 = NO COMMAND ADVANCE FLAG. | V23L617 | 726 |
| | | * | | (CW - CW+4) = *SEPW* WORD. | 1AJ6 | 1 |
| | | * | | | 1AJ | 7716 |
| | | * | EXIT | IS MADE TO *DPP*. | 1AJ | 7717 |
| | | * | | | 1AJ | 7718 |
| | | * | USES | T1, AB - AB+4. | 1AJ | 7719 |
| | | * | | | 1AJ | 7720 |
| | | * | CALLS | AKW, ARG, CKA, CRS, CSL, DFM, ISD, MSR, RCS, | 242L642 | 416 |
| | | * | | SAF, STK, UPS. | 242L642 | 417 |
| | | * | | | 1AJ | 7723 |
| | | * | MACROS | MONITOR. | 1AJ | 7724 |
| | | | | | 1AJ | 7725 |
| | | | | | 1AJ | 7726 |
| 5472 | | RCA | BSS | 0 | ENTRY | 1AJ78 1 |
| 5472 | 3055 | | NFA | SHCN | FETCH *SHELL* CONTROL WORD | 1AJ78 2 |
| 5475 | 6010 | | CRD | CM | | 1AJ78 3 |
| 5476 | 3010 | | LDD | CM | | 1AJ78 4 |
| 5477 | 0406 | | ZJN | RCA0 | IF NO *SHELL* CONTROLS | 1AJ78 5 |
| 5500 | 3060 | | LDD | CW | | 1AJ78 6 |
| 5501 | 1017 | | SHN | 21-2 | | 1AJ78 7 |
| 5502 | 0703 | | MJN | RCA0 | IF *SSJ=* | 1AJ78 8 |
| 5503 | 0100 5624 | | LJM | RCA8 | RETURN EOR STATUS ON COMMAND READ | 1AJ78 9 |
| | | | | | | 1AJ78 10 |
| 5505 | 0200 6302 | RCA0 | RJM | RCS | READ COMMAND | 1AJ78 11 |
| 5507 | 0605 | | PJN | RCA0.1 | IF NO MASS STORAGE ERROR | 242L642 418 |
| 5510 | 0200 3300 | | RJM | MSR | PROCESS MASS STORAGE ERROR | 242L642 419 |
| 5512 | 0100 5624 | | LJM | RCA8 | CLEAR COMMAND BUFFER | 242L642 424 |
| | | | | | | 242L642 425 |
| 5514 | 5400 3250 | RCA0.1 | STM | ISDA | SET COMMAND ADDRESS | 242L642 426 |
| 5516 | 3074 | | LDD | CP | READ SPECIAL ENTRY POINT WORD | 1AJ 7729 |
| 5517 | 2100 0105 | | ADC | SEPW | | 1AJ 7730 |
| 5521 | 6170 1254 | | CRM | CSEB,ON | | 1AJ 7731 |
| 5523 | 5000 1254 | | LDM | CSEB | SAVE *ARG=* ENTRY POINT INDICATORS | 1AJ 7732 |
| 5525 | 1240 | | LPN | 40 | | 1AJ 7733 |

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| 5526 | 3437 | | STD | EP | | 1AJ | 7734 | |
| 5527 | 3053 | | LDD | IR+3 | CHECK ADVANCE | 1AJ | 7735 | |
| 5530 | 1071 | | SHN | -6 | | 1AJ | 7736 | |
| 5531 | 0506 | | NJN | RCA1 | IF NOT ADVANCE | 1AJ | 7737 | |
| 5532 | 3060 | | LDD | CW | | 1AJ6 | 2 | |
| 5533 | 1017 | | SHN | 21-2 | | 1AJ6 | 3 | |
| 5534 | 0703 | | MJN | RCA1 | IF *SSJ=* PRESENT | 1AJ6 | 4 | |
| 5535 | 0200 | 5422 | RJM | CSL | CHECK COMMAND LIMIT | V23L617 | 729 | |
| 5537 | 3037 | | RCA1 | LDD | EP | 1AJ | 7739 | |
| 5540 | 0405 | | ZJN | RCA2 | IF NOT *ARG=* | 1AJ | 7740 | |
| 5541 | 2000 | 5640 | LDC | RCA10 | SET EXIT ADDRESS IF ERROR | 1AJ | 7741 | |
| 5543 | 5400 | 2647 | STM | ASNA | | 1AJ | 7742 | |
| 5545 | 0200 | 6634 | RCA2 | RJM | UPS | V23L617 | 730 | |
| 5547 | 0407 | | ZJN | RCA3 | IF NO ERRORS IN COMMAND | V23L617 | 731 | |
| 5550 | 5000 | 1254 | LDM | CSEB | CHECK FOR *ARG=* JOB STEP | 1AJ | 7745 | |
| 5552 | 1014 | | SHN | 21-5 | | 1AJ | 7746 | |
| 5553 | 0703 | | MJN | RCA3 | IF *ARG=* JOB STEP | 1AJ | 7747 | |
| 5554 | 0100 | 5624 | LJM | RCA8 | NOT AN *ARG=* JOB STEP | 1AJ | 7748 | |
| 5556 | 0200 | 2571 | RCA3 | RJM | AKW | 1AJ | 7749 | |
| 5560 | 0606 | | PJN | RCA4 | ASSEMBLE KEYWORD | 1AJ | 7750 | |
| 5561 | 2000 | 4700 | LDC | 1R**100 | IF NOT (*) COMMENT COMMAND | V23L617 | 732 | |
| 5563 | 3432 | | STD | AB | | 1AJ | 7752 | |
| 5564 | 0100 | 5662 | LJM | RCA12 | PROCESS COMMENT LINE | 1AJ | 7753 | |
| 5566 | 3053 | | RCA4 | LDD | IR+3 | 1AJ | 7754 | |
| 5567 | 1071 | | SHN | -6 | | 1AJ | 7755 | |
| 5570 | 0503 | | NJN | RCA5 | IF NOT ADVANCE | 1AJ | 7756 | |
| 5571 | 0100 | 5646 | LJM | RCA11 | ADVANCE | 1AJ | 7757 | |
| 5573 | 3057 | | RCA5 | LDD | FA | 1AJ | 7758 | |
| 5574 | 0514 | | NJN | RCA6 | IF NOT PROGRAM FILE FLAG | 1AJ | 7759 | |
| 5575 | 0200 | 6566 | RJM | SAF | SEARCH FOR ASSIGNED FILE | 1AJ | 7760 | |
| 5577 | 0413 | | ZJN | RCA7 | IF NO LOCAL FILE THAT MATCHES KEYWORD | 1AJ | 7761 | |
| 5600 | 1440 | | LDN | 40 | SET LOCAL FILE FLAG | 1AJ | 7762 | |
| 5601 | 3535 | | RAD | AB+3 | | 1AJ | 7763 | |
| 5602 | 3053 | | LDD | IR+3 | | 1AJ | 7764 | |
| 5603 | 1071 | | SHN | -6 | | 1AJ | 7765 | |
| 5604 | 1102 | | LMN | 2 | | 1AJ | 7766 | |
| 5605 | 0403 | | ZJN | RCA6 | IF RETURN COMMAND CALLING FOR LOCAL FILE | V23L617 | 733 | |
| 5606 | 3037 | | LDD | EP | | 1AJ | 7767 | |
| 5607 | 0415 | | ZJN | RCA8 | IF NO *ARG=* IS PRESENT | 1AJ | 7768 | |
| 5610 | 0100 | 5646 | RCA6 | LJM | RCA11 | RETURN LOCAL FILE | NS2053 | 3 |
| | | | * | | CHECK FOR PRESENCE OF A GLOBAL LIBRARY SET. | 1AJ | 7774 | |
| | | | | | | 1AJ | 7775 | |
| 5612 | 3074 | | RCA7 | LDD | CP | 1AJ | 7776 | |
| 5613 | 2100 | 0112 | ADC | LB1W | CHECK FOR A GLOBAL LIBRARY SET | 1AJ | 7777 | |
| 5615 | 6025 | | CRD | CN | | 1AJ | 7778 | |
| 5616 | 3025 | | LDD | CN | CHECK GLOBAL LIBRARY SET BIT | 1AJ | 7779 | |
| 5617 | 1007 | | SHN | 21-12 | | 1AJ | 7780 | |
| 5620 | 0626 | | PJN | RCA11 | IF GLOBAL LIBRARY NOT FOUND | 1AJ | 7781 | |
| 5621 | 3053 | | LDD | IR+3 | | NS2053 | 4 | |
| 5622 | 1012 | | SHN | 21-7 | | NS2053 | 5 | |
| 5623 | 0723 | | MJN | RCA11 | IF LOCAL/GLOBAL FILE CALL | NS2053 | 6 | |
| | | | | | | 1AJ | 7783 | |
| | | | | | | 1AJ | 7784 | |

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| Line | Address | Count | Label | Op | Op2 | Description | Target | Value |
|------|---------|-----------|-------|------|---------|--|---------|-------|
| | | | * | | | CLEAR COMMAND BUFFER. | V23L617 | 734 |
| | 5624 | 2000 4334 | RCA8 | LDC | STMT | CLEAR COMMAND BUFFER | 1AJ | 7786 |
| 1 | 5626 | 3401 | | STD | T1 | | V23L617 | 735 |
| 2 | 5627 | 1400 | RCA9 | LDN | 0 | | 1AJ | 7788 |
| 3 | 5630 | 4401 | | STI | T1 | | 1AJ | 7789 |
| 4 | 5631 | 3601 | | AOD | T1 | | 1AJ | 7790 |
| 5 | 5632 | 2300 4411 | | LMC | STMT+55 | | 1AJ | 7791 |
| 6 | 5634 | 0572 | | NJN | RCA9 | IF NOT END OF BUFFER | 1AJ | 7792 |
| 7 | 5635 | 1466 | | LDN | ZERL | | 1AJ | 7793 |
| 8 | 5636 | 6032 | | CRD | AB | CLEAR PROGRAM NAME | 1AJ | 7794 |
| 9 | 5637 | 0323 | | UJN | RCA12 | SET UP RA | 1AJ | 7795 |
| 10 | | | | | | | 1AJ | 7796 |
| 11 | | | * | | | REENTER HERE IF *ARG=* AND ERROR IN *ASN*. | 1AJ | 7797 |
| 12 | | | | | | | 1AJ | 7798 |
| 13 | 5640 | 3035 | RCA10 | LDD | AB+3 | CLEAR 8TH CHARACTER | 1AJ | 7799 |
| 14 | 5641 | 1377 | | SCN | 77 | | 1AJ | 7800 |
| 15 | 5642 | 3435 | | STD | AB+3 | | 1AJ | 7801 |
| 16 | 5643 | 1400 | | LDN | 0 | CLEAR ARGUMENT COUNT | 1AJ | 7802 |
| 17 | 5644 | 3402 | | STD | T2 | | 1AJ | 7803 |
| 18 | 5645 | 0315 | | UJN | RCA12 | SET UP RA | 1AJ | 7804 |
| 19 | | | | | | | 1AJ | 7805 |
| 20 | 5646 | 3077 | RCA11 | LDD | MA | SAVE NAME | 1AJ | 7806 |
| 21 | 5647 | 6232 | | CWD | AB | | 1AJ | 7807 |
| 22 | 5650 | 0200 2300 | | RJM | ARG | ENTER ARGUMENTS | 1AJ | 7808 |
| 23 | 5652 | 3077 | | LDD | MA | | 1AJ | 7809 |
| 24 | 5653 | 6032 | | CRD | AB | | 1AJ | 7810 |
| 25 | 5654 | 3002 | | LDD | T2 | SET ARGUMENT COUNT | 1AJ | 7811 |
| 26 | 5655 | 3436 | | STD | AB+4 | | 1AJ | 7812 |
| 27 | 5656 | 0200 3660 | | RJM | STK | SKIP TO KEYWORD | 1AJ | 7813 |
| 28 | 5660 | 5500 5677 | | RAM | RCAA | | 1AJ | 7814 |
| 29 | 5662 | 3055 | RCA12 | LDD | RA | ENTER PROGRAM NAME | 1AJ | 7815 |
| 30 | 5663 | 1006 | | SHN | 6 | | 1AJ | 7816 |
| 31 | 5664 | 1664 | | ADN | ACTR | | 1AJ | 7817 |
| 32 | 5665 | 6232 | | CWD | AB | | 1AJ | 7818 |
| 33 | 5666 | 1410 | | LDN | 10 | STORE COMMAND | V23L617 | 736 |
| 34 | 5667 | 3401 | | STD | T1 | | 1AJ | 7819 |
| 35 | 5670 | 3053 | | LDD | IR+3 | SET ADDRESS TO VALIDATE | 1AJ | 7820 |
| 36 | 5671 | 1237 | | LPN | 37 | | 1AJ | 7821 |
| 37 | 5672 | 1014 | | SHN | 14 | | 1AJ | 7822 |
| 38 | 5673 | 3354 | | LMD | IR+4 | | 1AJ | 7823 |
| 39 | 5674 | 0200 5363 | | RJM | CKA | CHECK ADDRESS | 1AJ | 7824 |
| 40 | 5676 | 6301 4334 | | CWM | STMT,T1 | | 1AJ | 7825 |
| 41 | | | 5677 | RCAA | EQU *-1 | | 1AJ | 7826 |
| 42 | 5700 | 3053 | | LDD | IR+3 | | 1AJ | 7827 |
| 43 | 5701 | 1071 | | SHN | -6 | | 1AJ | 7828 |
| 44 | 5702 | 0403 | | NJP | RCA14 | IF NO ADVANCE | 1AJ49 | 1 |
| 45 | 5705 | 3074 | | LDD | CP | UPDATE COMMAND POINTER | V23L617 | 737 |
| 46 | 5706 | 1673 | | ADN | CSPW | | 1AJ | 7833 |
| 47 | 5707 | 6240 | | CWD | SP | | 1AJ | 7834 |
| 48 | 5710 | 5000 1254 | | LDM | CSEB | | 1AJ | 7835 |
| 49 | 5712 | 1016 | | SHN | 21-3 | | 1AJ | 7836 |
| 50 | 5713 | 0720 | | MJN | RCA14 | IF SDM= PRESENT | 1AJ | 7837 |
| 51 | 5714 | 2000 4334 | | LDC | STMT | ISSUE COMMAND TO DAYFILE | NS2388 | 83 |
| 52 | 5716 | 0200 3243 | | RJM | ISD | | 1AJ | 7846 |
| 53 | 5720 | 0413 | | ZJN | RCA14 | IF COMMAND ISSUED VIA *DFM* CALL | V23L617 | 739 |
| 54 | 5721 | 0200 6251 | | RJM | CRS | CHECK RECALL STATUS | 1AJ | 7848 |

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|------|-----------|--|---------|---|-------------------------------------|---------|------|
| 5723 | 0410 | | ZJN | RCA14 | IF AUTO RECALL NOT SET | 1AJ | 7849 |
| 5724 | 1540 | | LCN | 40 | CLEAR AUTO RECALL IN *IR* | 1AJ | 7850 |
| 5725 | 3511 | | RAD | CM+1 | | 1AJ | 7851 |
| 5726 | 3075 | | LDD | IA | | 1AJ | 7852 |
| 5727 | 6210 | | CWD | CM | | 1AJ | 7853 |
| 5730 | 1471 | | MONITOR | RCPM | REMOVE *I* STATUS | 1AJ | 7854 |
| 5733 | 0100 1234 | | RCA14 | LJM DPP | DROP PPU | 1AJ | 7855 |
| | | | ** | RNC - READ NEXT COMMAND. | | V23L617 | 740 |
| | | | * | | | 1AJ | 7858 |
| | | | * | ENTRY (SP - SP+4) = COMMAND POINTER. | | V23L617 | 741 |
| | | | * | | | 1AJ | 7860 |
| | | | * | EXIT COMMAND STORED BEGINNING AT *STMT* AND | | V23L617 | 742 |
| | | | * | CONTINUING TO A 0000 BYTE. | | 1AJ | 7862 |
| | | | * | | | 1AJ | 7863 |
| | | | * | USES T1, CM - CM+4. | | 1AJ | 7864 |
| | | | * | | | 1AJ | 7865 |
| | | | * | CALLS ATX, CES, CKA, MSR, RCS. | | 242L642 | 429 |
| | | | * | | | 1AJ | 7867 |
| | | | * | MACROS MONITOR. | | 1AJ | 7868 |
| | | | | | | 1AJ | 7869 |
| | | | | | | 1AJ | 7870 |
| 5735 | 0200 5045 | | RNC5 | RJM ATX | CHECK EXIT FLAG | 1AJ | 7871 |
| 5737 | 0200 6302 | | | RJM RCS | READ COMMAND | V23L617 | 743 |
| 5741 | 0603 | | | PJN RNC6 | IF NO MASS STORAGE ERROR | 242L642 | 430 |
| 5742 | 0200 3300 | | | RJM MSR | PROCESS MASS STORAGE ERROR | 242L642 | 431 |
| 5744 | 5400 3250 | | RNC6 | STM ISDA | SET COMMAND ADDRESS | 242L642 | 432 |
| | | | | | | 1AJ | 7874 |
| 5746 | 0100 5746 | | RNC | SUBR | ENTRY/EXIT | 1AJ | 7875 |
| 5750 | 1410 | | | LDN 10 | | 1AJ | 7876 |
| 5751 | 3401 | | | STD T1 | | 1AJ | 7877 |
| 5752 | 0200 5177 | | | RJM CES | CHECK FOR *TCS* EXECUTE COMMAND | V23L617 | 745 |
| 5754 | 0412 | | | ZJN RNC1 | IF NOT EXECUTE COMMAND FROM CM | V23L617 | 746 |
| 5755 | 2000 1470 | | | LDC LDNI+CCDR | ISSUE COMMAND FROM *CCDR* | V23L617 | 747 |
| 5757 | 5400 2021 | | | STM BCPF | | 1AJ | 7881 |
| 5761 | 0200 5177 | | | RJM CES | RESET ADDRESS OF EXECUTE COMMAND | V23L617 | 748 |
| 5763 | 0200 5363 | | | RJM CKA | CHECK ADDRESS | 1AJ | 7883 |
| 5765 | 0313 | | | UJN RNC2 | READ COMMAND | V23L617 | 749 |
| | | | | | | 1AJ | 7885 |
| 5766 | 3052 | | RNC1 | LDD IR+2 | CHECK FOR *DIS* CALL | 1AJ | 7886 |
| 5767 | 1102 | | | LMN 2 | | 1AJ | 7887 |
| 5770 | 0544 | | | NJN RNC5 | IF NOT *DIS* CALL | 1AJ | 7888 |
| 5771 | 3054 | | | LDD IR+4 | CHECK FOR COMMAND IN MESSAGE BUFFER | V23L617 | 750 |
| 5772 | 1017 | | | SHN 21-2 | | 1AJ | 7890 |
| 5773 | 0641 | | | PJN RNC5 | IF COMMAND NOT IN MESSAGE BUFFER | V23L617 | 751 |
| 5774 | 1431 | | | LDN MS1W | SET COMMAND ADDRESS | V23L617 | 752 |
| 5775 | 5400 3250 | | | STM ISDA | | 1AJ | 7893 |
| 5777 | 3174 | | | ADD CP | | 1AJ | 7894 |
| 6000 | 6101 4334 | | RNC2 | CRM STMT,T1 | READ COMMAND | V23L617 | 753 |
| 6002 | 1456 | | | MONITOR DCPM | DROP CPU | 1AJ | 7896 |
| 6005 | 1400 | | | LDN 0 | INSURE TERMINATOR | 1AJ | 7897 |
| 6006 | 5400 4404 | | | STM STMT+10*5 | | 1AJ63 | 1 |
| 6010 | 2000 4333 | | | LDC STMT-1 | FIND END OF COMMAND | V23L617 | 754 |
| 6012 | 3401 | | | STD T1 | | 1AJ | 7900 |

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|------|------|------|-------|---|---------|---------------------------------------|---------|------|
| 6013 | 3601 | | RNC3 | AOD | T1 | | 1AJ | 7901 |
| 6014 | 4001 | | | LDI | T1 | | 1AJ | 7902 |
| 6015 | 0575 | | | NJN | RNC3 | IF NOT END OF COMMAND | V23L617 | 755 |
| 6016 | 1400 | | RNC4 | LDN | 0 | CLEAR REMAINDER OF BUFFER | 1AJ | 7904 |
| 6017 | 4401 | | | STI | T1 | | 1AJ | 7905 |
| 6020 | 3601 | | | AOD | T1 | | 1AJ | 7906 |
| 6021 | 2300 | 4411 | | LMC | STMT+55 | | 1AJ | 7907 |
| 6023 | 0572 | | | NJN | RNC4 | IF NOT END OF BUFFER | 1AJ | 7908 |
| 6024 | 0100 | 5746 | | LJM | RNCX | RETURN | 1AJ | 7909 |
| | | | | | | | | |
| | | | ** | SSF - SEARCH FOR SPECIAL FORMAT. | | | 1AJ | 7911 |
| | | | * | PROCESS SPECIAL COMMANDS - *CTIME*, *HTIME*, *RTIME*, | | | V23L617 | 756 |
| | | | * | AND *STIME*. | | | 1AJ | 7913 |
| | | | * | | | | 1AJ | 7914 |
| | | | * | ENTRY (AB - AB+4) = PROGRAM NAME. | | | 1AJ | 7915 |
| | | | * | (TCSA) .NE. 0, IF CHARGE REQUIRED. | | | V23L617 | 757 |
| | | | * | | | | 1AJ | 7917 |
| | | | * | EXIT TO *IST1*, IF SPECIAL COMMAND. | | | V23L617 | 758 |
| | | | * | TO *ERR1* IF PREVIOUS ERROR CONDITION. | | | 1AJ14 | 12 |
| | | | * | | | | 1AJ | 7919 |
| | | | * | USES T1, CM - CM+4, CN - CN+4. | | | 1AJ | 7920 |
| | | | * | | | | 1AJ | 7921 |
| | | | * | CALLS CAT, DFM. | | | 1AJ | 7922 |
| | | | * | | | | 1AJ | 7923 |
| | | | * | MACROS MONITOR. | | | 1AJ | 7924 |
| | | | | | | | 1AJ | 7925 |
| | | | | | | | 1AJ | 7926 |
| 6026 | 0100 | 6026 | SSF | SUBR | | ENTRY/EXIT | 1AJ | 7927 |
| 6030 | 5000 | 1104 | | LDM | TCSA | | 1AJ | 7928 |
| 6032 | 0573 | | | NJN | SSFX | IF CHARGE REQUIRED | V23L617 | 759 |
| 6033 | 3034 | | | LDD | AB+2 | CHECK FOR *E* | 1AJ | 7930 |
| 6034 | 2300 | 0500 | | LMC | 1RE*100 | | 1AJ | 7931 |
| 6036 | 0567 | | | NJN | SSFX | IF NO MATCH | 1AJ | 7932 |
| 6037 | 3033 | | | LDD | AB+1 | CHECK FOR *IM* | 1AJ | 7933 |
| 6040 | 2300 | 1115 | | LMC | 2RIM | | 1AJ | 7934 |
| 6042 | 0563 | | | NJN | SSFX | IF NO MATCH | 1AJ | 7935 |
| 6043 | 1500 | | | LCN | 0 | | 1AJ | 7936 |
| 6044 | 3401 | | | STD | T1 | | 1AJ | 7937 |
| 6045 | 3601 | | SSF1 | AOD | T1 | | 1AJ | 7938 |
| 6046 | 5001 | 6237 | | LDM | SOPT,T1 | | 1AJ | 7939 |
| 6050 | 5400 | 6214 | | STM | SSFB | STORE FIRST TWO CHARACTERS OF MESSAGE | 1AJ | 7940 |
| 6052 | 0453 | | | ZJN | SSFX | IF NOT SPECIAL FORMAT COMMAND | V23L617 | 760 |
| 6053 | 3332 | | | LMD | AB | | 1AJ | 7942 |
| 6054 | 0570 | | | NJN | SSF1 | IF NO MATCH | 1AJ | 7943 |
| 6055 | 5001 | 6244 | | LDM | SFCT,T1 | | NS2388 | 84 |
| 6057 | 3401 | | | STD | T1 | | 1AJ | 7945 |
| 6060 | 0101 | 0000 | | LJM | 0,T1 | JUMP TO SPECIAL FORMAT PROCESSOR | 1AJ | 7946 |
| | | | | | | | 1AJ | 7947 |
| 6062 | 1401 | | CTIME | LDN | 1 | CPU TIME | 1AJ | 7948 |
| 6063 | 3411 | | | STD | CM+1 | | 1AJ | 7949 |
| 6064 | 3071 | | | LDD | HN | | 1AJ | 7950 |
| 6065 | 0314 | | | UJN | HTI1 | COMPLETE PROCESSING | 1AJ | 7951 |
| | | | | | | | 1AJ | 7952 |
| 6066 | 2000 | 0113 | HTIME | LDK | MABL | CPU CLOCK CYCLES | NS21000 | 529 |

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|------|------|------|---------|--------|---|-------------------------|---------|------|
| 6070 | 6010 | | CRD | CM | | | 1AJ | 7954 |
| 6071 | 3011 | | LDD | CM+1 | | | NS21000 | 530 |
| 6072 | 1066 | | SHN | -11 | | | NS21000 | 531 |
| 6073 | 1107 | | LMN | 7 | | | NS21000 | 532 |
| 6074 | 0511 | | NJN | HTI2 | IF NOT CYBER 176 | | NS21000 | 533 |
| 6075 | 5600 | 6157 | AOM | SSFA | | | 1AJ | 7958 |
| 6077 | 1407 | | LDN | 7 | SET *HTIME* SUBFUNCTION | | 1AJ | 7959 |
| 6100 | 3411 | | STD | CM+1 | | | 1AJ | 7960 |
| 6101 | 3412 | | HTI1 | STD | CM+2 | | 1AJ | 7961 |
| 6102 | 1452 | | LDN | CPTW | READ CP ACCUMULATOR | | 1AJ | 7962 |
| 6103 | 0100 | 6150 | LJM | SSF2 | COMPLETE PROCESSING | | 1AJ | 7963 |
| | | | | | | | 1AJ | 7964 |
| 6105 | 0200 | 2651 | HTI2 | RJM | CAT | CLEAR *TCS* ADDRESS | 1AJ | 7965 |
| 6107 | 2000 | 4320 | LDC | =C* | HTIME NOT AVAILABLE.* | | 1AJ | 7966 |
| 6111 | 0200 | 0423 | HTI3 | RJM | DFM | | 1AJ | 7967 |
| 6113 | 3056 | | LDD | FL | | | 1AJ | 7968 |
| 6114 | 0407 | | ZJN | HTI4 | IF NO FL ASSIGNED | | 1AJ | 7969 |
| 6115 | 1466 | | LDN | ZERL | CLEAR RA+2 | | 1AJ | 7970 |
| 6116 | 6010 | | CRD | CM | | | 1AJ | 7971 |
| 6117 | 3055 | | LDD | RA | | | 1AJ | 7972 |
| 6120 | 1006 | | SHN | 6 | | | 1AJ | 7973 |
| 6121 | 1602 | | ADN | ARGR | | | 1AJ | 7974 |
| 6122 | 6210 | | CWD | CM | | | 1AJ | 7975 |
| 6123 | 0100 | 1173 | HTI4 | LJM | IST1 | CHECK STARTING JOB STEP | 1AJ | 7976 |
| | | | | | | | 1AJ | 7977 |
| 6125 | 1400 | | RTIME | LDN | 0 | REAL TIME | 1AJ | 7978 |
| 6126 | 3411 | | STD | CM+1 | | | 1AJ | 7979 |
| 6127 | 3412 | | STD | CM+2 | | | 1AJ | 7980 |
| 6130 | 2000 | 0106 | LDC | RTCL | READ REAL TIME ACCUMULATOR | | 1AJ | 7981 |
| 6132 | 0317 | | UJN | SSF3 | COMPLETE PROCESSING | | 1AJ | 7982 |
| | | | | | | | 1AJ | 7983 |
| 6133 | 3602 | | STIME | AOD | T2 | SYSTEM RESOURCE TIME | 1AJ | 7984 |
| 6134 | 2000 | 5525 | LDC | 2R U | | | 1AJ | 7985 |
| 6136 | 5400 | 6224 | STM | SSFD | | | 1AJ | 7986 |
| 6140 | 2000 | 1624 | LDC | 2RNT | | | 1AJ | 7987 |
| 6142 | 5400 | 6225 | STM | SSFD+1 | | | 1AJ | 7988 |
| 6144 | 1401 | | LDN | 1 | | | 1AJ | 7989 |
| 6145 | 3411 | | STD | CM+1 | | | 1AJ | 7990 |
| 6146 | 3412 | | STD | CM+2 | | | 1AJ | 7991 |
| 6147 | 1451 | | LDN | SRUW | | | 1AJ | 7992 |
| | | | | | | | 1AJ | 7993 |
| | | | * | | COMPLETE SPECIAL FORMAT COMMAND PROCESSING. | | V23L617 | 761 |
| | | | | | | | 1AJ | 7995 |
| 6150 | 3174 | | SSF2 | ADD | CP | | 1AJ | 7996 |
| 6151 | 6025 | | SSF3 | CRD | CN | | 1AJ | 7997 |
| 6152 | 3077 | | LDD | MA | REQUEST CONVERSION | | 1AJ | 7998 |
| 6153 | 6225 | | CWD | CN | | | 1AJ | 7999 |
| 6154 | 1440 | | MONITOR | RDCM | | | 1AJ | 8000 |
| 6157 | 1401 | | SSFA | LDN | 1 | SET NUMBER OF WORDS | 1AJ | 8001 |
| | | | * | LDN | 2 | (IF *HTIME* REQUEST) | 1AJ | 8002 |
| 6160 | 3401 | | STD | T1 | | | 1AJ | 8003 |
| 6161 | 3077 | | LDD | MA | READ CONVERSION TO MESSAGE | | 1AJ | 8004 |
| 6162 | 6010 | | CRD | CM | | | 1AJ | 8005 |
| 6163 | 3010 | | LDD | CM | | | 1AJ | 8006 |
| 6164 | 0517 | | NJN | SSF4 | IF CONVERSION COMPLETED | | 1AJ | 8007 |
| 6165 | 3001 | | LDD | T1 | PROCESS MESSAGE FOR NO CONVERSION | | 1AJ | 8008 |
| 6166 | 1102 | | LMN | 2 | | | 1AJ | 8009 |

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|------|-----------|---|-------|---------------|---|----------|------|
| 6167 | 0517 | | NJN | SSF5 | IF NOT *HTIME* REQUEST | 1AJ | 8010 |
| 6170 | 3077 | | LDD | MA | | 1AJ | 8011 |
| 6171 | 6370 6217 | | CWM | SSFC,ON | | 1AJ | 8012 |
| 6173 | 1701 | | SBN | 1 | | 1AJ | 8013 |
| 6174 | 6170 6224 | | CRM | SSFC+5,ON | | 1AJ | 8014 |
| 6176 | 2000 3333 | | LDC | 2R00 | | 1AJ | 8015 |
| 6200 | 5400 6222 | | STM | SSFC+3 | | 1AJ | 8016 |
| 6202 | 0304 | | UJN | SSF5 | DISPLAY MESSAGE | 1AJ | 8017 |
| | | | | | | 1AJ | 8018 |
| 6203 | 3077 | | SSF4 | LDD | MA | 1AJ | 8019 |
| 6204 | 6101 6217 | | CRM | SSFC,T1 | | 1AJ | 8020 |
| 6206 | 0200 2651 | | SSF5 | RJM | CAT CLEAR *TCS* ADDRESS | 1AJ | 8021 |
| 6210 | 2000 6214 | | LDC | SSFB | DISPLAY MESSAGE | 1AJ | 8022 |
| 6212 | 0100 6111 | | LJM | HTI3 | ISSUE DAYFILE MESSAGE | 1AJ | 8023 |
| | | | | | | 1AJ | 8024 |
| | | | | | | 1AJ | 8025 |
| 6214 | 5555 | | SSFB | DATA | H* IME* *CTIME*, *HTIME*, *RTIME*, OR *STIME* | 1AJ | 8026 |
| 6217 | 3333 | | SSFC | DATA | H*000000.000* | 1AJ | 8027 |
| 6224 | 5523 | | SSFD | DATA | C* SECS.* | 1AJ | 8028 |
| 6230 | 5555 | | | DATA | C* KCYCLES.* | 1AJ | 8029 |
| | | | | | | 1AJ | 8030 |
| 6237 | | | SOPT | BSS | 0 PREFIX FOR TIME COMMANDS | V23L617 | 762 |
| 6237 | 0324 | | CON | 2RCT | | 1AJ | 8032 |
| 6240 | 1024 | | CON | 2RHT | | 1AJ | 8033 |
| 6241 | 2224 | | CON | 2RRT | | 1AJ | 8034 |
| 6242 | 2324 | | CON | 2RST | | 1AJ | 8035 |
| 6243 | 0000 | | CON | 0 | | 1AJ | 8036 |
| | | | | | | 1AJ | 8037 |
| 6244 | | | SFCT | BSS | 0 JUMP ADDRESS FOR PROCESSORS | 1AJ | 8038 |
| 6244 | 6062 | | CON | CTIME | | 1AJ | 8039 |
| 6245 | 6066 | | CON | HTIME | | 1AJ | 8040 |
| 6246 | 6125 | | CON | RTIME | | 1AJ | 8041 |
| 6247 | 6133 | | CON | STIME | | 1AJ | 8042 |
| | | | | | | | |
| | | | ** | COMMON DECKS. | | 1AJ | 8044 |
| | | | | | | 1AJ | 8045 |
| | | | | | | 1AJ | 8046 |
| 6250 | | | CTEXT | COMPCRS | - CHECK RECALL STATUS. | COMPCRS | 1 |
| | | 1 | EJT\$ | EQU | 1 ASSEMBLE EJT ADDRESSING (COMPGFP) | NS21000 | 534 |
| 6257 | | | CTEXT | COMPGFP | - MANAGED TABLE PROCESSOR. | COMPGFP | 1 |
| 6301 | | | CTEXT | COMPRCS | - READ CONTROL STATEMENT. | COMPRCS | 1 |
| 6533 | | | CTEXT | COMPRNS | - READ NEXT SECTOR. | COMPRNS | 1 |
| 6563 | | | CTEXT | COMP SAF | - SEARCH FOR ASSIGNED FILE. | COMP SAF | 1 |
| 6633 | | | CTEXT | COMP UPS | - UNPACK STATEMENT. | COMP UPS | 1 |

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** COMMON DECKS AND CODE WHICH MAY BE OVERLAID BY
* THE MASS STORAGE BUFFER, *BFMS*.

1AJ 8050
1AJ 8051
1AJ 8052
1AJ 8053
1AJ 8054

| Line | Code | Address | Subroutine | Description | Address | Code |
|------|-------|-----------|--|-------------|---|------------------------|
| 11 | ERRNG | BFMS-2-* | CODE OVERLAYS | *BFMS* | | |
| 7 | *** | | CSC - CHECK *SHELL* CONTROLS. | | NS21000 | 539 |
| 8 | * | | | | NS21000 | 540 |
| 9 | * | EXIT | IF *SHELL* CONTROL SET IN NFL WORD *SHCN*, *TCS* | | NS21000 | 541 |
| 10 | * | | WILL BE PRESET TO PROCESS THE *SHELL* PROGRAM. | | NS21000 | 542 |
| 11 | * | | | | NS21000 | 543 |
| 12 | * | USES | CM - CM+4, CN - CN+4. | | NS21000 | 544 |
| 13 | | | | | NS21000 | 545 |
| 14 | | | | | NS21000 | 546 |
| 15 | 6763 | 0100 6763 | CSC | SUBR | ENTRY/EXIT | NS21000 547 |
| 16 | 6765 | 5000 1104 | LDM | TCSA | | 1AJ79 1 |
| 17 | 6767 | 0573 | NJN | CSCX | IF CHARGE REQUIRED SET | 1AJ79 2 |
| 18 | 6770 | 3055 | NFA | SHCN | FETCH *SHELL* CONTROL WORD | 1AJ45 1 |
| 19 | 6773 | 6025 | CRD | CN | | 1AJ45 2 |
| 20 | 6774 | 5000 3515 | LDM | RQSG | | NS21000 548 |
| 21 | 6776 | 1201 | LPN | 1 | | NS21000 549 |
| 22 | 6777 | 0421 | ZJN | CSC0 | IF NOT A *TCS* CALL | 1AJ45 3 |
| 23 | 7000 | 3031 | LDD | CN+4 | | 1AJ45 4 |
| 24 | 7001 | 1006 | SHN | 21-13 | | 1AJ45 5 |
| 25 | 7002 | 0616 | PJN | CSC0 | IF CALL NOT MADE FROM A *SHELL* PROGRAM | 1AJ45 6 |
| 26 | 7003 | 3031 | LDD | CN+4 | CLEAR *SHELL* EXECUTING FLAG | 1AJ45 7 |
| 27 | 7004 | 2200 3777 | LPC | 3777 | | 1AJ45 8 |
| 28 | 7006 | 3431 | STD | CN+4 | | 1AJ45 9 |
| 29 | 7007 | 3055 | NFA | SHCN | | 1AJ45 10 |
| 30 | 7012 | 6225 | CWD | CN | | 1AJ45 11 |
| 31 | 7013 | 3040 | LDD | SP | INHIBIT COMMAND LIMIT DECREMENT | NS2388 85 |
| 32 | 7014 | 1301 | SCN | 1 | | NS2388 86 |
| 33 | 7015 | 1101 | LMN | 1 | | NS2388 87 |
| 34 | 7016 | 3440 | STD | SP | | NS2388 88 |
| 35 | 7017 | 0343 | UJN | CSCX | RETURN | 1AJ45 12 |
| 36 | | | | | | 1AJ45 13 |
| 37 | 7020 | 3025 | CSC0 | LDD | CN | CHECK *SHELL* CONTROLS |
| 38 | 7021 | 0441 | ZJN | CSCX | IF *SHELL* CONTROL NOT SET | NS21000 554 |
| 39 | 7022 | 3031 | LDD | CN+4 | | NS21000 555 |
| 40 | 7023 | 1017 | SHN | 21-2 | | NS21000 556 |
| 41 | 7024 | 0614 | PJN | CSC1 | IF TERMINAL COMMANDS NOT MONITORED | V23L617 763 |
| 42 | 7025 | 5000 3226 | LDM | IPLB+4 | | NS21000 558 |
| 43 | 7027 | 0411 | ZJN | CSC1 | IF NOT INTERACTIVE | NS21000 559 |
| 44 | 7030 | 2000 0100 | LDC | LJMI | ENABLE TERMINAL COMMAND MONITORING | V23L617 764 |
| 45 | 7032 | 5400 4550 | STM | INTB | | NS21000 561 |
| 46 | 7034 | 2000 4710 | LDC | INT25 | | NS21000 562 |
| 47 | 7036 | 5400 4551 | STM | INTB+1 | | NS21000 563 |
| 48 | 7040 | 3074 | CSC1 | LDD | CP | GET CCL CONTROL |
| 49 | 7041 | 2100 0107 | ADC | JCDW | | NS21000 565 |
| 50 | 7043 | 6010 | CRD | CM | | NS21000 566 |
| 51 | 7044 | 3031 | LDD | CN+4 | | NS21000 567 |
| 52 | 7045 | 1020 | SHN | 21-1 | | NS21000 568 |
| 53 | 7046 | 0603 | PJN | CSC2 | IF BATCH COMMANDS NOT MONITORED | V23L617 765 |
| 54 | 7047 | 3012 | LDD | CM+2 | | NS21000 570 |

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|------|------|------|--------|---|--|---------|---------|-----|
| 7050 | 0406 | | ZJN | CSC2.1 | IF NOT IN CCL PROCEDURE | 1AJ92 | 54 | |
| 7051 | 3031 | | CSC2 | LDD | CN+4 | NS21000 | 576 | |
| 7052 | 1021 | | | SHN | 21-0 | NS21000 | 577 | |
| 7053 | 0613 | | PJN | CSC3 | IF CCL COMMANDS NOT MONITORED | V23L617 | 767 | |
| 7054 | 3012 | | | LDD | CM+2 | NS21000 | 579 | |
| 7055 | 0411 | | ZJN | CSC3 | IF NOT IN CCL PROCEDURE | NS21000 | 580 | |
| 7056 | 2000 | 4714 | CSC2.1 | LDC | INT26 | 1AJ92 | 55 | |
| 7060 | 5400 | 4633 | | STM | INTC+1 | 1AJ92 | 56 | |
| 7062 | 2000 | 0100 | | LDC | LJMI | 1AJ92 | 57 | |
| 7064 | 5400 | 4632 | | STM | INTC | NS21000 | 582 | |
| 7066 | 0100 | 6763 | CSC3 | LJM | CSCX | 1AJ50 | 15 | |
| | | | *** | IAA - ISSUE APPLICATION ACCOUNTING MESSAGE. | | | NS21000 | 592 |
| | | | * | | | NS21000 | 593 | |
| | | | * | ENTRY | (T3 - T3+4) = (CP) + *FPFW*. | NS21000 | 594 | |
| | | | * | | (A) = APPLICATION ACCOUNTING BITS. | NS21000 | 595 | |
| | | | * | | | NS21000 | 596 | |
| | | | * | EXIT | APPLICATION ACCOUNTING BITS CLEARED. | NS21000 | 597 | |
| | | | * | | APPLICATION ACCOUNTING MESSAGE ISSUED. | NS21000 | 598 | |
| | | | * | | | NS21000 | 599 | |
| | | | * | USES | FS, CM - CM+4, T3 - T3+4. | NS21000 | 600 | |
| | | | * | | | NS21000 | 601 | |
| | | | * | CALLS | DFM. | NS21000 | 602 | |
| | | | * | | | NS21000 | 603 | |
| | | | * | MACROS | MONITOR. | NS21000 | 604 | |
| 7070 | 0100 | 7070 | IAA | SUBR | ENTRY/EXIT | NS21000 | 607 | |
| 7072 | 3420 | | | STD | FS | NS21000 | 608 | |
| 7073 | 3003 | | | LDD | T3 | NS21000 | 609 | |
| 7074 | 2200 | 6377 | | LPC | 6377 | NS21000 | 610 | |
| 7076 | 3403 | | | STD | T3 | NS21000 | 611 | |
| 7077 | 3074 | | | LDD | CP | NS21000 | 612 | |
| 7100 | 1662 | | | ADN | FPFW | NS21000 | 613 | |
| 7101 | 6203 | | | CWD | T3 | NS21000 | 614 | |
| 7102 | 1710 | | | SBN | FPFW-CPTW | NS21000 | 615 | |
| 7103 | 6003 | | | CRD | T3 | NS21000 | 616 | |
| 7104 | 1607 | | | ADN | CPJW-CPTW | NS21000 | 617 | |
| 7105 | 6010 | | | CRD | CM | NS21000 | 618 | |
| 7106 | 3020 | | | LDD | FS | NS21000 | 619 | |
| 7107 | 1010 | | | SHN | 21-11 | NS21000 | 620 | |
| 7110 | 0657 | | | PJN | IAAX | NS21000 | 621 | |
| 7111 | 3077 | | | LDD | MA | NS21000 | 622 | |
| 7112 | 6203 | | | CWD | T3 | NS21000 | 623 | |
| 7113 | 1601 | | | ADN | 1 | NS21000 | 624 | |
| 7114 | 6210 | | | CWD | CM | NS21000 | 625 | |
| 7115 | 1407 | | | LDN | ABUS | NS21000 | 626 | |
| 7116 | 3411 | | | STD | CM+1 | NS21000 | 627 | |
| 7117 | 1425 | | | MONITOR | ACTM | NS21000 | 628 | |
| 7122 | 3077 | | | LDD | MA | NS21000 | 629 | |
| 7123 | 6170 | 7136 | | CRM | IAAA+3,ON | NS21000 | 630 | |
| 7125 | 2005 | 7133 | | LDC | ACFN+IAAA | NS21000 | 631 | |
| 7127 | 0200 | 0423 | | RJM | DFM | NS21000 | 632 | |
| 7131 | 0100 | 7070 | | LJM | IAAX | NS21000 | 633 | |

| Line | Address | Length | Code | Label | Description | Start | End |
|------|---------|-----------|------|---|--|---------|-----|
| 1 | | | * | DAYFILE MESSAGE. | | NS21000 | 634 |
| 2 | 7133 | 2505 | IAAA | DATA | C*UEAU, 000000.000UNTS.* | NS21000 | 635 |
| 3 | | | | | | NS21000 | 636 |
| 4 | | | | | | NS21000 | 637 |
| 5 | | | | | | NS21000 | 638 |
| 7 | | | ** | INT - INITIALIZE DIRECT CELLS. | | 241L630 | 111 |
| 8 | | | * | | | 241L630 | 112 |
| 9 | | | * | EXIT (JO) = JOB EJT ORDINAL. | | 241L630 | 113 |
| 10 | | | * | (RQSF) = ROLLOUT ALLOWED FLAG. | | 241L630 | 114 |
| 11 | | | * | | | 241L630 | 115 |
| 12 | | | * | USES EF, EP, FA, IR, PF, AB - AB+4, CM - CM+4, | | 241L630 | 116 |
| 13 | | | * | CN - CN+4, CW - CW+4, FS - FS+4, SP - SP+4, | | 241L630 | 117 |
| 14 | | | * | T1 - T7. | | 241L630 | 118 |
| 15 | | | * | | | 241L630 | 119 |
| 16 | | | * | CALLS AKW, CAT, CCF, CUA, IAA, IFP, IPL, SSF. | | 1AJ92 | 58 |
| 17 | | | * | | | 241L630 | 121 |
| 18 | | | * | MACROS MONITOR, NFA, SFA. | | 241L630 | 122 |
| 19 | | | * | | | 241L630 | 123 |
| 20 | | | * | NOTE THE INITIALIZATION CODE IS SPLIT INTO TWO PARTS. | | 241L630 | 124 |
| 21 | | | * | THIS PART IS OVERLAYED BY THE DISK BUFFER. | | 241L630 | 125 |
| 22 | | | | | | 241L630 | 126 |
| 23 | | | | | | 241L630 | 127 |
| 24 | 7147 | | INT | BSS | 0 ENTRY | 241L630 | 128 |
| 25 | 7147 | 0200 7331 | | RJM | IFP INITIALIZE *COMPGF*P* | 241L630 | 129 |
| 26 | 7151 | 0200 7461 | | RJM | CUA GET USER ACCESS PRIVILEGES | 1AJ92 | 59 |
| 27 | 7153 | 5400 1125 | | STM | TCS D | 1AJ92 | 60 |
| 28 | 7155 | 3010 | | LDD | CM | 1AJ92 | 61 |
| 29 | 7156 | 5400 1130 | | STM | TCSE | 1AJ92 | 62 |
| 30 | 7160 | 3074 | | LDD | CP READ STATUS WORD | 241L630 | 130 |
| 31 | 7161 | 1620 | | ADN | STSW | 241L630 | 131 |
| 32 | 7162 | 6025 | | CRD | CN | 241L630 | 132 |
| 33 | 7163 | 1606 | | ADN | JCIW-STSW READ JOB CONTROL INFORMATION | 241L630 | 133 |
| 34 | 7164 | 6032 | | CRD | AB | 241L630 | 134 |
| 35 | 7165 | 1644 | | ADK | TFSW-JCIW READ EJT ORDINAL WORD | NS2323 | 216 |
| 36 | 7166 | 6001 | | CRD | T1 | 241L630 | 138 |
| 37 | 7167 | 1601 | | ADK | CSPW-TFSW READ COMMAND POINTER | 241L630 | 139 |
| 38 | 7170 | 6040 | | CRD | SP | 241L630 | 140 |
| 39 | 7171 | 1612 | | ADN | SEPW-CSPW READ SPECIAL ENTRY POINT WORD | 241L630 | 141 |
| 40 | 7172 | 6060 | | CRD | CW | 241L630 | 142 |
| 41 | 7173 | 3035 | | LDD | AB+3 | 1AJ87 | 5 |
| 42 | 7174 | 1013 | | SHN | 21-6 | 1AJ87 | 6 |
| 43 | 7175 | 0611 | | PJN | INT0 IF EXTENDED MEMORY PROTECT NOT SELECTED | 1AJ87 | 7 |
| 44 | 7176 | 2000 0000 | | ISTORE | RQSC, (NJN RQS0) | 1AJ87 | 8 |
| 45 | 7202 | 2000 0000 | | ISTORE | RQSJ, (UJN RQS8) | 1AJ87 | 9 |
| 46 | 7206 | 3001 | INT0 | LDD | T1 SET EJT ORDINAL | 1AJ87 | 10 |
| 47 | 7207 | 3445 | | STD | JO | 241L630 | 144 |
| 48 | 7210 | 3040 | | LDD | SP SET CHARGE REQUIRED STATUS | NS2323 | 217 |
| 49 | 7211 | 1204 | | LPN | 4 | NS2323 | 218 |
| 50 | 7212 | 5400 1104 | | STM | TCSA | 241L630 | 147 |
| 51 | 7214 | 3045 | | SFA | EJT, JO | 241L630 | 148 |
| 52 | 7217 | 1601 | | ADK | SCHE | 241L630 | 149 |
| 53 | 7220 | 6010 | | CRD | CM READ END OF JOB STATUS | 241L630 | 150 |
| 54 | 7221 | 1602 | | ADK | //SCLE-SCHE | 1AJ71 | 1 |

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|------|------|------|-----|-----------------|---|---------|-----|
| 7222 | 6001 | | CRD | T1 | READ FORCED ROLLIN FLAG | 241L630 | 152 |
| 7223 | 3012 | | LDD | CM+2 | | 241L630 | 153 |
| 7224 | 2200 | 3000 | LPC | 3000 | | 242L642 | 433 |
| | | | LMK | NOTM*1000 | | 242L642 | 434 |
| 7226 | 0505 | | NJN | INT1 | IF END OF JOB | 242L642 | 435 |
| 7227 | 3034 | | LDD | AB+2 | | 241L630 | 156 |
| 7230 | 2177 | 0031 | SBK | LSSI+1 | | 241L630 | 157 |
| 7232 | 0705 | | MJN | INT2 | IF NOT A SUBSYSTEM | 241L630 | 158 |
| 7233 | 2000 | 0320 | LDC | UJNI+BCP19-BCPG | BYPASS CLEAR OF MEMORY | 241L630 | 159 |
| 7235 | 5400 | 2175 | STM | BCPG | | 241L630 | 160 |
| 7237 | 3034 | | LDD | AB+2 | SET/CLEAR ROLLOUT ALLOWED FLAG | 241L630 | 161 |
| 7240 | 0512 | | NJN | INT3 | IF ROLLOUT NOT ALLOWED | 241L630 | 162 |
| 7241 | 3035 | | LDD | AB+3 | | 241L630 | 163 |
| 7242 | 2200 | 1000 | LPC | 1000 | | 241L630 | 164 |
| 7244 | 0506 | | NJN | INT3 | IF *DIS* ASSIGNED TO JOB | 241L630 | 165 |
| 7245 | 3033 | | LDD | AB+1 | | NS2542 | 1 |
| 7246 | 1210 | | LPN | 10 | | NS2542 | 2 |
| 7247 | 0503 | | NJN | INT3 | IF *CPUPFM* ACTIVE | NS2542 | 3 |
| 7250 | 3001 | | LDD | T1 | | 241L630 | 166 |
| 7251 | 1220 | | LPN | 20 | | 241L630 | 167 |
| 7252 | 5400 | 3507 | STM | RQSF | | 241L630 | 168 |
| 7254 | 1400 | | LDN | 0 | | 241L630 | 169 |
| 7255 | 3465 | | STD | PF | CLEAR PROGRAM FORMAT | 241L630 | 170 |
| 7256 | 3457 | | STD | FA | CLEAR FNT ADDRESS | 241L630 | 171 |
| 7257 | 3446 | | STD | EF | CLEAR/SET ERROR FLAG | 241L630 | 172 |
| 7260 | 3437 | | STD | EP | CLEAR ENTRY POINT | 241L630 | 173 |
| 7261 | 3050 | | LDD | IR | CHECK FOR *TCS* CALL | 241L630 | 174 |
| 7262 | 2300 | 2403 | LMC | 2RTC | | 241L630 | 175 |
| 7264 | 0403 | | ZJN | INT5 | IF *TCS* CALL | 241L630 | 176 |
| 7265 | 0100 | 4335 | LJM | INT7 | DETERMINE ORIGIN TYPE | 241L630 | 184 |
| | | | | | | 241L630 | 185 |
| 7267 | 2000 | 1461 | LDC | LDNI+DPPM | | 273L780 | 8 |
| 7271 | 5400 | 1236 | STM | DPPA | | 241L630 | 188 |
| 7273 | 5600 | 3315 | AOM | MSRA | SET NO JOB ADVANCE FLAG | 273L780 | 9 |
| 7275 | 3052 | | LDD | IR+2 | | 241L630 | 195 |
| 7276 | 1105 | | LMN | 5 | | 241L630 | 196 |
| 7277 | 0403 | | ZJN | INT6 | IF EXECUTE COMMAND FROM CM | 241L630 | 197 |
| 7300 | 0100 | 4352 | LJM | INT10 | CHECK ERROR FLAG | 241L630 | 198 |
| | | | | | | 241L630 | 199 |
| | * | | | | THE JOB ADVANCE FLAG IS SET FOR A *TCS* CALL (TO | 241L630 | 200 |
| | * | | | | EXECUTE A COMMAND FROM CM) BY SAVING THE REQUEST, | 241L630 | 201 |
| | * | | | | DROPPING THE CPU, AND WAITING FOR THE SYSTEM TO ADVANCE | 241L630 | 202 |
| | * | | | | THE JOB. WHEN THE JOB IS ADVANCED, *1AJ* THEN ATTEMPTS TO | 241L630 | 203 |
| | * | | | | START UP THE COMMAND FROM THE CM ADDRESS POINTED | 241L630 | 204 |
| | * | | | | TO BY THE ORIGINAL *TCS* REQUEST WITH JOB ADVANCE SET. | 241L630 | 205 |
| | | | | | | 241L630 | 206 |
| 7302 | 0200 | 2651 | RJM | CAT | CLEAR ADDRESS FOR *TCS* EXECUTE COMMAND | 241L630 | 207 |
| 7304 | 0200 | 5130 | RJM | CCF | CLEAR CONTROL FIELDS | 241L630 | 208 |
| 7306 | 3053 | | LDD | IR+3 | SAVE *TCS* REQUEST ADDRESS | 241L630 | 209 |
| 7307 | 1277 | | LPN | 77 | | 241L630 | 210 |
| 7310 | 1014 | | SHN | 14 | | 241L630 | 211 |
| 7311 | 3354 | | LMD | IR+4 | | 241L630 | 212 |
| 7312 | 1014 | | SHN | 14 | | 241L630 | 213 |
| 7313 | 3412 | | STD | CM+2 | | 241L630 | 214 |
| 7314 | 1071 | | SHN | -6 | | 241L630 | 215 |
| 7315 | 1377 | | SCN | 77 | | 241L630 | 216 |
| 7316 | 3513 | | RAD | CM+3 | | 241L630 | 217 |

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| 7317 | 3001 | LDD | T1 | | 241L630 | 218 |
| 7320 | 6210 | CWD | CM | | 241L630 | 219 |
| 7321 | 1401 | LDN | 1 | SELECT CLEAR CPU STATUS | 241L630 | 220 |
| 7322 | 3411 | STD | CM+1 | | 241L630 | 221 |
| 7323 | 1456 | MONITOR | DCPM | | 241L630 | 222 |
| 7326 | 0100 1234 | LJM | DPP | DROP PP | 241L630 | 223 |
| | | | | | 1AJ | 8055 |
| | IFP | HERE | | ASSEMBLE *COMPGFP* INITIALIZATION | 1AJ | 8056 |
| 7363 | | CTEXT | COMPAST | - ACCESS SUBSYSTEM TABLES. | COMPAST | 1 |
| 7457 | | CTEXT | COMPCTUA | - CHECK USER ACCESS. | COMPCTUA | 1 |
| 7540 | | CTEXT | COMPSTA | - SET TERMINAL TABLE ADDRESS. | COMPSTA | 1 |
| | | | | | | |
| | | | | OVERFLOW | 1AJ | 8060 |
| | | | | | OVERFLOW.1 | |
| | 5 | ERRNG | .2-.1+5-.3/500B*500B | BYTES LEFT AFTER LAST SECTOR | OVERFLOW.1 | |
| | 207 | ERRNG | .3/500B*500B-*.1-5 | BYTES LEFT IN LAST SECTOR | OVERFLOW.1 | |
| | 207 | ERRNG | .4/500B*500B-*.1-5 | BYTES CAN BE ADDED TO OVERLAY | OVERFLOW.1 | |
| | 13 | ERRNG | .3/500B | SECTORS NEEDED FOR OVERLAY | OVERFLOW.1 | |
| | | | | | OVERFLOW.1 | |
| | | LIST | * | | OVERFLOW.1 | |

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|---|-----------|------|------|------|--------------------------|---------|------|
| 4604 | 4066 | | LDI | CA | CHECK NEXT CHARACTER | 1AJ | 8114 |
| 4605 | 0412 | | ZJN | SPL1 | IF TERMINATOR | 1AJ | 8115 |
| 4606 | 3003 | | LDD | T3 | SET PARAMETER 1 | 1AJ | 8116 |
| 4607 | 1006 | | SHN | 6 | | 1AJ | 8117 |
| 4610 | 3435 | | STD | AB+3 | | 1AJ | 8118 |
| 4611 | 3102 | | ADD | T2 | | 1AJ | 8119 |
| 4612 | 1006 | | SHN | 6 | | 1AJ | 8120 |
| 4613 | 3434 | | STD | AB+2 | | 1AJ | 8121 |
| 4614 | 3666 | | AOD | CA | ASSEMBLE DIGITS | 1AJ | 8122 |
| 4615 | 0200 4650 | | RJM | AOD | | 1AJ | 8123 |
| 4617 | 3002 | SPL1 | LDD | T2 | SET PARAMETER 2 | 1AJ | 8124 |
| 4620 | 3535 | | RAD | AB+3 | | 1AJ | 8125 |
| 4621 | 3003 | | LDD | T3 | | 1AJ | 8126 |
| 4622 | 3436 | | STD | AB+4 | | 1AJ | 8127 |
| 4623 | 3051 | SPL2 | LDD | IR+1 | SET CP NUMBER | 1AJ | 8128 |
| 4624 | 1237 | | LPN | 37 | | 1AJ | 8129 |
| 4625 | 3533 | | RAD | AB+1 | | 1AJ | 8130 |
| 4626 | 3075 | | LDD | IA | WRITE INPUT REGISTER | 1AJ | 8131 |
| 4627 | 6232 | | CWD | AB | | 1AJ | 8132 |
| 4630 | 1410 | | LDN | 10 | SET PP PROGRAM FORMAT | 1AJ | 8133 |
| 4631 | 3465 | | STD | PF | | 1AJ | 8134 |
| 4632 | 0100 1150 | | LJM | IST6 | ISSUE COMMAND TO DAYFILE | V23L617 | 769 |
| | | | | | | | |
| ** AOD - ASSEMBLE OCTAL DIGITS. | | | | | | | |
| * ENTRY (CA) = CHARACTER ADDRESS. | | | | | | | |
| * EXIT (T2 - T3) = ASSEMBLED DIGITS. | | | | | | | |
| * ERROR TO *ERR* IF MORE THAN 6 DIGITS. | | | | | | | |
| * USES T1, T4. | | | | | | | |
| * CALLS ARG, ASN. | | | | | | | |
| | | | | | | | |
| 4634 | 3704 | AOD3 | SOD | T4 | RESET CHARACTER ADDRESS | 1AJ | 8150 |
| 4635 | 3466 | | STD | CA | | 1AJ | 8151 |
| 4636 | 0200 2300 | | RJM | ARG | PROCESS ARGUMENTS | 1AJ | 8152 |
| 4640 | 3067 | | LDD | KA | SET KEYWORD ADDRESS | 1AJ | 8153 |
| 4641 | 3466 | | STD | CA | | 1AJ | 8154 |
| 4642 | 0200 2625 | | RJM | ASN | ASSEMBLE NAME | 1AJ | 8155 |
| 4644 | 1400 | | LDN | 0 | CLEAR OCTAL ASSEMBLY | 1AJ | 8156 |
| 4645 | 3402 | | STD | T2 | | 1AJ | 8157 |
| 4646 | 3403 | | STD | T3 | | 1AJ | 8158 |
| | | | | | | | |
| 4647 | 0100 4647 | AOD | SUBR | | ENTRY/EXIT | 1AJ | 8159 |
| 4651 | 3066 | | LDD | CA | SAVE CHARACTER ADDRESS | 1AJ | 8160 |
| 4652 | 3404 | | STD | T4 | | 1AJ | 8161 |
| 4653 | 1400 | | LDN | 0 | CLEAR ASSEMBLY | 1AJ | 8162 |
| 4654 | 3402 | | STD | T2 | | 1AJ | 8163 |
| 4655 | 3403 | | STD | T3 | | 1AJ | 8164 |
| 4656 | 4066 | AOD1 | LDI | CA | CHECK CHARACTER | 1AJ | 8165 |
| 4657 | 0467 | | ZJN | AODX | IF TERMINATOR | 1AJ | 8166 |

| | | | | | | | | |
|----|------|-----------|-------|----------|--------------------|-----|------|----|
| 1 | 4660 | 1733 | SBN | 1R0 | | 1AJ | 8168 | 1 |
| 2 | 4661 | 3401 | STD | T1 | | 1AJ | 8169 | 2 |
| 3 | 4662 | 0751 | MJN | AOD3 | IF ALPHA | 1AJ | 8170 | 3 |
| 4 | 4663 | 1712 | SBN | 1R+-1R0 | | 1AJ | 8171 | 4 |
| 5 | 4664 | 0662 | PJN | AODX | IF SEPARATOR | 1AJ | 8172 | 5 |
| 6 | 4665 | 1602 | ADN | 1R+-1R8 | | 1AJ | 8173 | 6 |
| 7 | 4666 | 0645 | PJN | AOD3 | IF OCTAL | 1AJ | 8174 | 7 |
| 8 | 4667 | 3002 | LDD | T2 | CHECK ASSEMBLY | 1AJ | 8175 | 8 |
| 9 | 4670 | 1307 | SCN | 7 | | 1AJ | 8176 | 9 |
| 10 | 4671 | 0513 | NJN | AOD2 | IF TOO MANY DIGITS | 1AJ | 8177 | 10 |
| 11 | 4672 | 3002 | LDD | T2 | SHIFT ASSEMBLY | 1AJ | 8178 | 11 |
| 12 | 4673 | 1014 | SHN | 14 | | 1AJ | 8179 | 12 |
| 13 | 4674 | 3103 | ADD | T3 | | 1AJ | 8180 | 13 |
| 14 | 4675 | 1003 | SHN | 3 | | 1AJ | 8181 | 14 |
| 15 | 4676 | 3101 | ADD | T1 | ADD NEW DIGIT | 1AJ | 8182 | 15 |
| 16 | 4677 | 3403 | STD | T3 | STORE ASSEMBLY | 1AJ | 8183 | 16 |
| 17 | 4700 | 1063 | SHN | -14 | | 1AJ | 8184 | 17 |
| 18 | 4701 | 3402 | STD | T2 | | 1AJ | 8185 | 18 |
| 19 | 4702 | 3666 | AOD | CA | ADVANCE CHARACTER | 1AJ | 8186 | 19 |
| 20 | 4703 | 0352 | UJN | AOD1 | LOOP | 1AJ | 8187 | 20 |
| 21 | | | | | | 1AJ | 8188 | 21 |
| 22 | | | | | | 1AJ | 8189 | 22 |
| 23 | 4704 | 0100 2721 | AOD2 | LJM | ERR | 1AJ | 8189 | 23 |
| 24 | | | | | | | | 24 |
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| 26 | | | | | | | | 26 |
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| 32 | | 2070 | ERRNG | BFMS - * | | 1AJ | 8191 | 32 |
| 33 | | | | | | | | 33 |
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|---------|---|---------|------|
| QUAL | LDR | 1AJ | 8194 |
| IDENT | LDR,LDR | 1AJ | 8195 |
| COMMENT | 82/02/26. 95/06/23. 1AJ - LOAD CENTRAL PROGRAM. | 1AJ | 8196 |
| COMMENT | COPYRIGHT CONTROL DATA SYSTEMS INC. 1992. | 281L803 | 8 |

| | | | |
|---------|--|-----|------|
| *** | LDR - OVERLAY LOADER. | 1AJ | 8199 |
| * | | 1AJ | 8200 |
| * | *LDR* LOADS OVERLAYS IN RESPONSE TO CPU PROGRAM REQUESTS. | 1AJ | 8201 |
| *** | CALL. | 1AJ | 8203 |
| * | | 1AJ | 8204 |
| * | 18/ *LDR*,1/ ,1/A,22/,18/ADDR | 1AJ | 8205 |
| * | A AUTO RECALL IF DESIRED | 1AJ | 8206 |
| * | ADDR ADDRESS OF REQUEST | 1AJ | 8207 |
| * | | 1AJ | 8208 |
| * | THE LOAD REQUEST CONSISTS OF 2 - 4 WORDS. | 1AJ | 8209 |
| * | | 1AJ | 8210 |
| *T ADDR | 42/ *NAME*,18/0 | 1AJ | 8211 |
| *T, | 6/L1,6/L2,2/N,3/0,1/U,1/V,4/0,1/E,18/LWA,18/FWA | 1AJ | 8212 |
| *T, | 42/ *OVLNAME*,18/0 | 1AJ | 8213 |
| *T, | 42/ *EPTNAME*,18/0 | 1AJ | 8214 |
| * | | 1AJ | 8215 |
| * | *NAME* SOURCE OF NAME DEPENDING ON *U* AND *N*. | 1AJ | 8216 |
| * | L1 FIRST OVERLAY LEVEL. | 1AJ | 8217 |
| * | L2 SECOND OVERLAY LEVEL. | 1AJ | 8218 |
| * | N NUMBER OF WORDS IN REQUEST - 2. | 1AJ | 8219 |
| * | U LOAD OPTION (SEE BELOW). | 1AJ | 8220 |
| * | V OVERLAY FLAG (MUST BE SET TO 1). | 1AJ | 8221 |
| * | E CALL COMPLETION FLAG (SEE BELOW). | 1AJ | 8222 |
| * | FWA FIRST WORD ADDRESS OF OVERLAY. | 1AJ | 8223 |
| * | LWA LAST WORD ADDRESS AVAILABLE FOR LOAD. | 1AJ | 8224 |
| * | *OVLNAME* NAME OF OVERLAY TO BE LOADED (IF N"0). | 1AJ | 8225 |
| * | *EPTNAME* ENTRY POINT NAME WHEN LOADING MULTIPLE ENTRY | 1AJ | 8226 |
| * | POINT OVERLAY (IF N=2). | 1AJ | 8227 |
| * | | 1AJ | 8228 |
| * | IF U=0 N IS IGNORED AND *NAME* IS THE NAME OF THE | 1AJ | 8229 |
| * | FILE CONTAINING OVERLAY (L1 AND L2 ARE REQUIRED). | 1AJ | 8230 |
| * | | 1AJ | 8231 |
| * | IF U=1 AND N=0 *NAME* IS THE NAME OF THE OVERLAY FROM | 1AJ | 8232 |
| * | SYSTEM (L1 AND L2 ARE IGNORED). | 1AJ | 8233 |
| * | | 1AJ | 8234 |
| * | IF U=1 AND N"0 *OVLNAME* IS THE NAME OF THE OVERLAY FROM | 1AJ | 8235 |
| * | SYSTEM (L1 AND L2 ARE IGNORED). | 1AJ | 8236 |
| * | | 1AJ | 8237 |
| * | IF FWA=0, OVERLAY IS LOADED AT ADDRESS SPECIFIED BY OVERLAY. | 1AJ | 8238 |
| * | | 1AJ | 8239 |
| * | IF L1=L2=0, CONTROL IS TO CALLED OVERLAY, OTHERWISE, CONTROL | 1AJ | 8240 |
| * | IS RETURNED TO CALLER WITH *FWA* = ENTRY ADDRESS. | 1AJ | 8241 |
| * | | 1AJ | 8242 |
| * | IF E=1, CONTROL TRANSFERS TO THE SPECIFIED ENTRY POINT | 1AJ | 8243 |
| * | (*EPTNAME*) IN THE OVERLAY. | 1AJ | 8244 |

| | | | | | | | |
|----|---------|-----------------|------------|---|-------------------|------|------|
| | * | | | | | 1AJ | 8245 |
| | * | | | | | 1AJ | 8246 |
| | * | | | | | 1AJ | 8247 |
| 1 | * | | | UPON COMPLETION OF THE LOAD, INFORMATION IS RETURNED IN THE | | 1AJ | 8248 |
| 2 | * | | | CALL BLOCK AS FOLLOWS- | | 1AJ | 8249 |
| 3 | * | | | | | 1AJ | 8250 |
| 4 | *T ADDR | 42/ | *NAME* | ,18/0 | | 1AJ | 8251 |
| 5 | *T, | 6/L1,6/L2,30/0, | 18/EPTADDR | | | 1AJ | 8252 |
| 6 | *T, | 42/ | *OVLNAME* | ,18/0 | | 1AJ | 8253 |
| 7 | *T, | 42/ | *EPTNAME* | ,18/0 | | 1AJ | 8254 |
| 8 | * | | | | | 1AJ | 8255 |
| 9 | * | EPTADDR | | ENTRY POINT ADDRESS OF OVERLAY. | | 1AJ | 8256 |
| 10 | * | | | IF N=2, EPTADDR IS ADDRESS OF *EPTNAME*. | | 1AJ | 8256 |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | *** | | | DAYFILE MESSAGES. | | 1AJ | 8258 |
| 15 | * | | | | | 1AJ | 8259 |
| 16 | * | | | * OVERLAY NOT FOUND IN LIBRARY - OVLNAME* REQUESTED | | 1AJ | 8260 |
| 17 | * | | | OVERLAY *OVLNAME* WAS NOT FOUND IN THE SYSTEM LIBRARY. | | 1AJ | 8261 |
| 18 | * | | | | | 1AJ | 8262 |
| 19 | * | | | * ARG ERROR.* = LDR PARMAETERS WERE OUTSIDE FL. | | 1AJ | 8263 |
| 20 | * | | | | | 1AJ | 8264 |
| 21 | * | | | * FILE NOT OVERLAY FORMAT.* = FIRST RECORD OF FILE WAS NOT | | 1AJ | 8265 |
| 22 | * | | | AN OVERLAY. | | 1AJ | 8266 |
| 23 | * | | | | | 1AJ | 8267 |
| 24 | * | | | * LDR ERROR.* ISSUED BEFORE ONE OF ABOVE ERRORS. | | 1AJ | 8268 |
| 25 | * | | | | | 1AJ | 8269 |
| 26 | * | | | * I/O ON EXECUTE-ONLY FILE.* = AN OVERLAY LOAD HAS BEEN | | 1AJ | 8270 |
| 27 | * | | | ATTEMPTED FOR AN EXECUTE-ONLY FILE OTHER THAN THAT | | 1AJ | 8271 |
| 28 | * | | | FROM WHICH THE MAIN PROGRAM WAS LOADED. | | 1AJ | 8272 |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| 32 | | | | | | | |
| 33 | ** | | | COMMON DECKS. | | 1AJ | 8274 |
| 34 | | | | | | 1AJ | 8275 |
| 35 | | | | | | 1AJ | 8276 |
| 36 | | QUAL | MSP | | | 1AJ | 8277 |
| 37 | 0 | CTEXT | COMSMSP | - MASS STORAGE PROCESSING EQUIVALENCES. | COMSMSP | 1 | |
| 38 | | QUAL | * | | 1AJ | 8279 | |
| 39 | | | | | | | |
| 40 | | | | | | | |
| 41 | | | | | | | |
| 42 | | | | | | | |
| 43 | **** | | | DIRECT LOCATION ASSIGNMENTS. | | 1AJ | 8281 |
| 44 | | | | | | 1AJ | 8282 |
| 45 | | | | | | 1AJ | 8283 |
| 46 | | 16 | WC | EQU T8 | SECTOR WORD COUNT | 1AJ | 8284 |
| 47 | | 65 | PF | EQU /TCS/PF | | 1AJ | 8285 |
| 48 | | 66 | LV | EQU /TCS/CA | | 1AJ | 8286 |
| 49 | **** | | | | | 1AJ | 8287 |
| 50 | | | | | | | |
| 51 | | | | | | | |
| 52 | | | | | | | |
| 53 | | | | | | | |
| 54 | | | | | | | |
| 55 | | | | | | | |
| 56 | | | | | | | |
| 57 | | | | | | | |
| 58 | | | | | | | |
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| | ** | | LDR - MAIN PROGRAM. | | | 1AJ | 8290 |
| | * | | | | | 1AJ | 8291 |
| | * | | CALLS /3AE/CLD, /3AE/LCP, *3AD*. | | | 1AJ | 8292 |
| | * | | | | | 1AJ | 8293 |
| | * | | MACROS EXECUTE, LDA, NFA. | | | 1AJ | 8294 |
| | | | | | | 1AJ | 8295 |
| | | | | | | 1AJ | 8296 |
| | | | | | | 1AJ | 8297 |
| | | | | | | 1AJ | 8298 |
| | | | | | | 1AJ | 8299 |
| | | | | | | 1AJ | 8300 |
| | | | | | | 1AJ | 8301 |
| | * | | LOAD COPY ROUTINES. | | | 1AJ | 8302 |
| | | | | | | 1AJ | 8303 |
| | | | | | | 1AJ | 8304 |
| | | | | | | 242L642 | 437 |
| | | | | | | NS2488 | 1 |
| | | | | | | 1AJ | 8308 |
| | * | | CHECK REQUEST ADDRESS. | | | 1AJ | 8309 |
| | | | | | | 1AJ | 8310 |
| | | | | | | 1AJ | 8311 |
| | | | | | | 1AJ | 8312 |
| | | | | | | 1AJ | 8313 |
| | | | | | | 1AJ | 8314 |
| | | | | | | 1AJ | 8315 |
| | | | | | | 1AJ | 8316 |
| | | | | | | 1AJ | 8317 |
| | | | | | | 1AJ | 8318 |
| | | | | | | 1AJ | 8319 |
| | * | | CHECK REQUEST. | | | 1AJ | 8320 |
| | | | | | | 1AJ | 8321 |
| | | | | | | 1AJ | 8322 |
| | | | | | | 1AJ | 8323 |
| | | | | | | 1AJ | 8324 |
| | | | | | | 1AJ | 8325 |
| | | | | | | 1AJ | 8326 |
| | | | | | | 1AJ | 8327 |
| | | | | | | 1AJ | 8328 |
| | | | | | | 1AJ | 8329 |
| | | | | | | 1AJ | 8330 |
| | | | | | | 1AJ | 8331 |
| | | | | | | 1AJ | 8332 |
| | | | | | | 1AJ | 8333 |
| | | | | | | 1AJ | 8334 |
| | | | | | | 1AJ | 8335 |
| | | | | | | 1AJ | 8336 |
| | | | | | | 1AJ | 8337 |
| | | | | | | 1AJ | 8338 |
| | | | | | | 1AJ | 8339 |
| | | | | | | 1AJ | 8340 |
| | | | | | | 1AJ | 8341 |
| | | | | | | 1AJ | 8342 |
| | | | | | | 1AJ | 8343 |
| | | | | | | 1AJ | 8344 |
| | | | | | | 1AJ | 8345 |
| | | | | | | 1AJ | 8346 |
| | | | | | | 1AJ | 8347 |

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|--|------|-----------|------|-----|--------------|--------------------------------------|-----|------|
| | 1170 | 1006 | LDR3 | SHN | 6 | | 1AJ | 8348 |
| | 1171 | 1071 | | SHN | -6 | | 1AJ | 8349 |
| | 1172 | 3256 | | SBD | FL | | 1AJ | 8350 |
| | 1173 | 0660 | | PJN | LDR1 | IF LWA BEYOND FL | 1AJ | 8351 |
| | 1174 | 3156 | | ADD | FL | | 1AJ | 8352 |
| | 1175 | 1006 | | SHN | 6 | | 1AJ | 8353 |
| | 1176 | 3366 | | LMD | LV | RESTORE LWA | 1AJ | 8354 |
| | 1177 | 1601 | | ADN | 1 | ALLOW LOAD UP TO AND INCLUDING LWA | 1AJ | 8355 |
| | 1200 | 5400 4735 | | STM | /3AE/CMSE+1 | | 1AJ | 8356 |
| | 1202 | 5400 1517 | | STM | LDRB+4 | SET LWA + 1 FOR LOAD COPY ROUTINES | 1AJ | 8357 |
| | 1204 | 2377 7777 | | LMC | 777777 | | 1AJ | 8358 |
| | 1206 | 5400 4672 | | STM | /3AE/CMSB+1 | | 1AJ | 8359 |
| | 1210 | 5400 6444 | | STM | /3AE/CPHA+1 | | 1AJ | 8360 |
| | 1212 | 2377 7777 | | LMC | 777777 | | 1AJ | 8361 |
| | 1214 | 1063 | | SHN | -14 | | 1AJ | 8362 |
| | 1215 | 5400 1516 | | STM | LDRB+3 | | 1AJ | 8363 |
| | 1217 | 2300 2177 | | LMC | ADCI+77 | | 1AJ | 8364 |
| | 1221 | 5400 4671 | | STM | /3AE/CMSB | | 1AJ | 8365 |
| | 1223 | 5400 6443 | | STM | /3AE/CPHA | | 1AJ | 8366 |
| | 1225 | 2300 0177 | | LMC | LDCI&ADCI+77 | | 1AJ | 8367 |
| | 1227 | 5400 4734 | | STM | /3AE/CMSE | | 1AJ | 8368 |
| | 1231 | 5600 7160 | | AOM | /3AE/CCMB | FLAG FWA SPECIFIED | 1AJ | 8369 |
| | 1233 | 3010 | LDR4 | LDD | CM | SET OVERLAY LEVELS | 1AJ | 8370 |
| | 1234 | 3466 | | STD | LV | | 1AJ | 8371 |
| | 1235 | 3011 | | LDD | CM+1 | | 1AJ | 8372 |
| | 1236 | 1201 | | LPN | 1 | SET RETURN FLAG | 1AJ | 8373 |
| | 1237 | 5500 1404 | | RAM | LDRA | | 1AJ | 8374 |
| | 1241 | 1401 | | LDN | 1 | SET FLAG FOR USER LIBRARY LOAD FALSE | 1AJ | 8375 |
| | 1242 | 3460 | | STD | CW | | 1AJ | 8376 |
| | 1243 | 3011 | | LDD | CM+1 | CHECK REQUEST | 1AJ | 8377 |
| | 1244 | 1013 | | SHN | 21-6 | | 1AJ | 8378 |
| | 1245 | 0703 | | MJN | LDR5 | IF LIBRARY LOAD | 1AJ | 8379 |
| | 1246 | 0100 1364 | | LJM | LDR10 | PROCESS LOCAL FILE LOAD | 1AJ | 8380 |
| | 1250 | 1074 | LDR5 | SHN | -3 | | 1AJ | 8381 |
| | 1251 | 1203 | | LPN | 3 | | 1AJ | 8382 |
| | 1252 | 0413 | | ZJN | LDR6 | IF TWO WORD REQUEST | 1AJ | 8383 |
| | 1253 | 1601 | | ADN | 1 | | 1AJ | 8384 |
| | 1254 | 1006 | | SHN | 6 | | 1AJ | 8385 |
| | 1255 | 3153 | | ADD | IR+3 | | 1AJ | 8386 |
| | 1256 | 1006 | | SHN | 6 | | 1AJ | 8387 |
| | 1257 | 3155 | | ADD | RA | READ OVERLAY/ENTRY NAME | 1AJ | 8388 |
| | 1260 | 1006 | | SHN | 6 | | 1AJ | 8389 |
| | 1261 | 3154 | | ADD | IR+4 | | 1AJ | 8390 |
| | 1262 | 6032 | | CRD | AB | | 1AJ | 8391 |
| | 1263 | 6170 1540 | | CRM | LDRD,ON | SET NAME IN MESSAGE | 1AJ | 8392 |
| | | | | | | | 1AJ | 8393 |
| | | | * | | | PROCESS LIBRARY SEARCH. | 1AJ | 8394 |
| | | | | | | | 1AJ | 8395 |
| | 1265 | 3035 | LDR6 | LDD | AB+3 | CLEAR EIGHTH CHARACTER | 1AJ | 8396 |
| | 1266 | 1377 | | SCN | 77 | | 1AJ | 8397 |
| | 1267 | 3435 | | STD | AB+3 | | 1AJ | 8398 |
| | 1270 | 5400 1543 | | STM | LDRE | | 1AJ | 8399 |
| | 1272 | 1400 | | LDN | 0 | TERMINATE MESSAGE | 1AJ | 8400 |
| | 1273 | 5400 1544 | | STM | LDRE+1 | | 1AJ | 8401 |
| | 1275 | 3074 | | LDD | CP | CHECK USER LIBRARY LOAD FLAG | 1AJ | 8402 |

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|------|-----------|---------|------------|---|--|---------|------|
| 1276 | 2100 0112 | ADC | LB1W | | | 1AJ | 8405 |
| 1300 | 6060 | CRD | CW | | | 1AJ | 8406 |
| 1301 | 3060 | LDD | CW | | | 1AJ | 8407 |
| 1302 | 1201 | LPN | 1 | | | 1AJ | 8408 |
| 1303 | 0422 | ZJN | LDR7 | IF NOT USER LIBRARY LOAD | | 1AJ | 8409 |
| 1304 | 3074 | LDD | CP | GET ADDRESS OF USER LIBRARY | | 1AJ | 8410 |
| 1305 | 2100 0115 | ADC | EOCW | | | 1AJ | 8411 |
| 1307 | 6032 | CRD | AB | | | 1AJ | 8412 |
| 1310 | 3055 | NFA | AB,R | GET LIBRARY NAME | | 1AJ | 8413 |
| 1313 | 6032 | CRD | AB | | | 1AJ | 8414 |
| 1314 | 1400 | LDN | 0 | SET FLAG FOR USER LIBRARY LOAD | | 1AJ | 8415 |
| 1315 | 3460 | STD | CW | FLAG FOR USER LIBRARY LOAD | | 1AJ | 8416 |
| 1316 | 3035 | LDD | AB+3 | CLEAR EIGHTH CHARACTER | | 1AJ | 8417 |
| 1317 | 1377 | SCN | 77B | | | 1AJ | 8418 |
| 1320 | 3435 | STD | AB+3 | | | 1AJ | 8419 |
| 1321 | 3011 | LDD | CM+1 | SAVE CALL BLOCK SIZE | | 1AJ | 8420 |
| 1322 | 1065 | SHN | -12 | | | 1AJ | 8421 |
| 1323 | 0100 1365 | LJM | LDR11 | PROCESS LOCAL FILE LOAD | | 1AJ | 8422 |
| | | | | | | 1AJ | 8423 |
| 1325 | 0200 6512 | LDR7 | RJM | /3AE/CLD | SEARCH CENTRAL LIBRARY DIRECTORY | 1AJ | 8424 |
| 1327 | 0431 | ZJN | LDR8 | IF NOT FOUND | | 1AJ | 8425 |
| 1330 | 6060 | CRD | CW | READ CONTROL WORD | | 1AJ | 8426 |
| 1331 | 1701 | SBN | 1 | | | 1AJ | 8427 |
| 1332 | 6025 | CRD | CN | READ FIRST WORD | | 1AJ | 8428 |
| 1333 | 3077 | LDD | MA | SET ENTRY POINT NAME | | 1AJ | 8429 |
| 1334 | 6232 | CWD | AB | | | 1AJ | 8430 |
| 1335 | 6170 6503 | CRM | /3AE/CL,ON | | | 1AJ | 8431 |
| 1337 | 1400 | LDN | 0 | CLEAR EST ORDINAL | | NS22000 | 226 |
| 1340 | 3405 | STD | T5 | | | 1AJ | 8433 |
| 1341 | 3061 | LDD | CW+1 | CHECK PROGRAM LOCATION | | 1AJ | 8434 |
| 1342 | 2200 2000 | LPC | 2000 | | | 1AJ | 8435 |
| 1344 | 0527 | NJN | LDR12 | IF PROGRAM CM RESIDENT | | 1AJ | 8436 |
| 1345 | 3062 | LDD | CW+2 | SET ALTERNATE EQUIPMENT | | 1AJ | 8437 |
| 1346 | 3405 | STD | T5 | | | 1AJ | 8438 |
| 1347 | 3030 | LDD | CN+3 | SET ADDRESS OF PROGRAM ON SYSTEM DEVICE | | 1AJ | 8439 |
| 1350 | 5400 6507 | STM | /3AE/CL+4 | | | 1AJ | 8440 |
| 1352 | 3031 | LDD | CN+4 | | | 1AJ | 8441 |
| 1353 | 5400 6510 | STM | /3AE/CL+5 | | | 1AJ | 8442 |
| 1355 | 3063 | LDD | CW+3 | CHECK TRACK | | 1AJ | 8443 |
| 1356 | 1006 | SHN | 6 | | | 1AJ | 8444 |
| 1357 | 0714 | MJN | LDR12 | IF NOT SPECIAL FORM | | 1AJ | 8445 |
| 1360 | 2000 1520 | LDR8 | LDC | LDRC | * OVERLAY NOT FOUND IN LIBRARY - OVLNAME.* | 1AJ | 8446 |
| 1362 | 0100 1545 | LDR9 | LJM | LDE | PROCESS ERROR | 1AJ | 8447 |
| | | | | | | 1AJ | 8448 |
| | | * | | PROCESS FILE SEARCH. | | 1AJ | 8449 |
| | | | | | | 1AJ | 8450 |
| 1364 | 1074 | LDR10 | SHN | -3 | SAVE CALL BLOCK SIZE | 1AJ | 8451 |
| 1365 | 1203 | LDR11 | LPN | 3 | | 1AJ | 8452 |
| 1366 | 3437 | STD | EP | | | 1AJ | 8453 |
| 1367 | 2036 0104 | EXECUTE | 3AD | SEARCH FILE FOR OVERLAY | | 1AJ | 8454 |
| | | | | | | 1AJ | 8455 |
| | | * | | LOAD OVERLAY. | | 1AJ | 8456 |
| | | | | | | 1AJ | 8457 |
| 1373 | 0200 4556 | LDR12 | RJM | /3AE/LCP | LOAD OVERLAY | 1AJ | 8458 |
| 1375 | 0404 | ZJN | LDR12.1 | IF NO ERROR | | NS2031 | 269 |
| 1376 | 2340 0000 | LMC | 400000 | | | NS2031 | 270 |
| 1400 | 0361 | UJN | LDR9 | PROCESS LOAD ERROR | | NS2031 | 271 |

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|--|------|-----------|---------|---------------------|-----------------------------------|-------------------------------|--------|------|
| | 1401 | 3013 | LDR12.1 | LDD | CM+3 | | NS2031 | 272 |
| | 1402 | 1237 | | LPN | 37 | | NS2031 | 273 |
| | 1403 | 3413 | | STD | CM+3 | | 1AJ | 8461 |
| | 1404 | 1400 | LDR12.1 | LDN | 0 | | 1AJ | 8462 |
| | | | * | LDN | 1 | (*RETURN TO ENTRY POINT* SET) | 1AJ | 8463 |
| | 1405 | 0505 | | NJN | LDR13 | IF RETURN TO OVERLAY LOADED | 1AJ | 8464 |
| | 1406 | 3066 | | LDD | LV | | 1AJ | 8465 |
| | 1407 | 0403 | | ZJN | LDR13 | IF (0,0) LEVEL OVERLAY | 1AJ | 8466 |
| | 1410 | 0100 1461 | | LJM | LDR15 | NOT (0,0) LEVEL OVERLAY | 1AJ | 8467 |
| | | | * | | | | 1AJ | 8468 |
| | | | | SET (P) | = ENTRY ADDRESS | | 1AJ | 8469 |
| | | | | | | | 1AJ | 8470 |
| | 1412 | 3035 | LDR13 | LDA | AB+3 | READ HEADER WORD | 1AJ | 8471 |
| | 1417 | 6025 | | CRD | CN | | 1AJ | 8472 |
| | 1420 | 5000 5615 | | LDM | /3AE/CSFD | CHECK FOR FWA FROM 53 TABLE | 1AJ | 8473 |
| | 1422 | 5100 5616 | | ADM | /3AE/CSFD+1 | | 1AJ | 8474 |
| | 1424 | 0407 | | ZJN | LDR14 | IF NO FWA FROM 53 TABLE | 1AJ | 8475 |
| | 1425 | 5000 5615 | | LDM | /3AE/CSFD | USE FWA FROM 53 TABLE | 1AJ | 8476 |
| | 1427 | 3427 | | STD | CN+2 | | 1AJ | 8477 |
| | 1430 | 5000 5616 | | LDM | /3AE/CSFD+1 | | 1AJ | 8478 |
| | 1432 | 3430 | | STD | CN+3 | | 1AJ | 8479 |
| | 1433 | 3030 | LDR14 | LDD | CN+3 | CALCULATE ENTRY ADDRESS | 1AJ | 8480 |
| | 1434 | 1071 | | SHN | -6 | | 1AJ | 8481 |
| | 1435 | 3430 | | STD | CN+3 | | 1AJ | 8482 |
| | 1436 | 3035 | | LDD | AB+3 | CALCULATE RELOCATION | 1AJ | 8483 |
| | 1437 | 1014 | | SHN | 14 | | 1AJ | 8484 |
| | 1440 | 3136 | | ADD | AB+4 | | 1AJ | 8485 |
| | 1441 | 3230 | | SBD | CN+3 | | 1AJ | 8486 |
| | 1442 | 1014 | | SHN | 14 | | 1AJ | 8487 |
| | 1443 | 3227 | | SBD | CN+2 | | 1AJ | 8488 |
| | 1444 | 1006 | | SHN | 6 | | 1AJ | 8489 |
| | 1445 | 3514 | | RAD | CM+4 | | 1AJ | 8490 |
| | 1446 | 1063 | | SHN | -14 | | 1AJ | 8491 |
| | 1447 | 3513 | | RAD | CM+3 | | 1AJ | 8492 |
| | 1450 | 3074 | | LDD | CP | ENTER (P) | 1AJ | 8493 |
| | 1451 | 6025 | | CRD | CN | | 1AJ | 8494 |
| | 1452 | 3013 | | LDD | CM+3 | | 1AJ | 8495 |
| | 1453 | 3425 | | STD | CN | | 1AJ | 8496 |
| | 1454 | 3014 | | LDD | CM+4 | | 1AJ | 8497 |
| | 1455 | 3426 | | STD | CN+1 | | 1AJ | 8498 |
| | 1456 | 3074 | | LDD | CP | | 1AJ | 8499 |
| | 1457 | 6225 | | CWD | CN | | 1AJ | 8500 |
| | 1460 | 0314 | | UJN | LDR16 | DROP PPU | NS2488 | 2 |
| | | | * | | | | 1AJ | 8501 |
| | | | | ENTER ENTRY ADDRESS | IN SECOND REQUEST WORD FOR (I,J). | | 1AJ | 8502 |
| | 1461 | 3410 | LDR15 | STD | CM | SET OVERLAY LEVEL | 1AJ | 8503 |
| | 1462 | 1400 | | LDN | 0 | | 1AJ | 8504 |
| | 1463 | 3411 | | STD | CM+1 | | 1AJ | 8505 |
| | 1464 | 3412 | | STD | CM+2 | | 1AJ | 8506 |
| | 1465 | 3053 | | LDA | IR+3 | STORE USER REPLY | 1AJ | 8507 |
| | 1472 | 1601 | | ADN | 1 | | 1AJ | 8508 |
| | 1473 | 6210 | | CWD | CM | | 1AJ | 8509 |
| | | | * | | | | 1AJ | 8510 |
| | | | | SET COMPLETION BIT | IN *LDRR*. | | NS2488 | 3 |
| | | | | | | | NS2488 | 4 |

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| 1474 | 3055 | | LDR16 | LDD | RA | | NS2488 | 5 |
| 1475 | 1006 | | | SHN | 6 | | NS2488 | 6 |
| 1476 | 1667 | | | ADN | LDRR | | NS2488 | 7 |
| 1477 | 6010 | | | CRD | CM | | NS2488 | 8 |
| 1500 | 1440 | | | LDN | 40 | SET COMPLETION BIT | NS2488 | 9 |
| 1501 | 3412 | | | STD | CM+2 | | NS2488 | 10 |
| 1502 | 3055 | | | LDD | RA | | NS2488 | 11 |
| 1503 | 1006 | | | SHN | 6 | | NS2488 | 12 |
| 1504 | 1667 | | | ADN | LDRR | | NS2488 | 13 |
| 1505 | 6210 | | | CWD | CM | | NS2488 | 14 |
| 1506 | 1461 | | | MONITOR | DPPM | DROP PP | NS2488 | 15 |
| 1511 | 0100 | 0257 | | LJM | PPR | EXIT TO PP RESIDENT | 1AJ | 8515 |
| | | | | | | | 1AJ | 8516 |
| | | | | | | | 1AJ | 8517 |
| 1513 | 0000 | 0000 | LDRB | CON | 0,0,0,0,0 | LWA ALLOWED FOR LOAD | 1AJ | 8518 |
| 1515 | 0000 | 0000 | | | | | | |
| 1517 | 0000 | | | | | | | |
| | | | | | | | 1AJ | 8519 |
| 1520 | 5517 | | LDRC | DATA | C* OVERLAY NOT FOUND IN LIBRARY - OVLNAME.* | | 1AJ | 8520 |
| | | 1540 | LDRD | EQU | *-5 | | 1AJ | 8521 |
| | | 1543 | LDRE | EQU | *-2 | | 1AJ | 8522 |
| | | | | | | | | |
| | | | ** | LDE - PROCESS *LDR* ERROR. | | | 1AJ | 8524 |
| | | | * | | | | 1AJ | 8525 |
| | | | * | ENTRY | (A) = ADDRESS OF MESSAGE. | | 1AJ | 8526 |
| | | | * | | (A) = ADDRESS + 400000B IF COMMON ERROR MESSAGE. | | NS2031 | 274 |
| | | | * | | (FA) = ADDRESS OF FNT ENTRY. | | 1AJ | 8527 |
| | | | * | | | | 1AJ | 8528 |
| | | | * | EXIT | TO *PPR*. | | 1AJ | 8529 |
| | | | * | | | | 1AJ | 8530 |
| | | | * | USES | EF, EP, FS+4. | | NS2031 | 275 |
| | | | * | | | | 1AJ | 8532 |
| | | | * | CALLS | DFM. | | 1AJ | 8533 |
| | | | * | | | | 1AJ | 8534 |
| | | | * | MACROS | MONITOR, NFA. | | 1AJ | 8535 |
| | | | * | | | | 1AJ | 8536 |
| | | | * | | | | 1AJ | 8537 |
| 1545 | 3446 | | LDE | STD | EF | SAVE ERROR MESSAGE ADDRESS | NS2031 | 276 |
| 1546 | 1063 | | | SHN | -14 | | NS2031 | 277 |
| 1547 | 3437 | | | STD | EP | | NS2031 | 278 |
| 1550 | 3057 | | | LDD | FA | CHECK LOAD MODE | 1AJ | 8539 |
| 1551 | 0412 | | | ZJN | LDE1 | IF NOT LOAD FILE | 1AJ | 8540 |
| 1552 | 3024 | | | LDD | FS+4 | SET OPERATION COMPLETE | 1AJ | 8541 |
| 1553 | 1377 | | | SCN | 77 | | 1AJ | 8542 |
| 1554 | 1105 | | | LMN | 5 | | 1AJ | 8543 |
| 1555 | 3424 | | | STD | FS+4 | | 1AJ | 8544 |
| 1556 | 3055 | | | NFA | FA,R | STORE FST ENTRY | 1AJ | 8545 |
| 1561 | 1601 | | | ADN | FSTL | | 1AJ | 8546 |
| 1562 | 6220 | | | CWD | FS | | 1AJ | 8547 |
| 1563 | 2000 | 1616 | LDE1 | LDC | =C* LDR ERROR.* | | 1AJ | 8548 |
| 1565 | 0200 | 0423 | | RJM | DFM | ISSUE DAYFILE MESSAGE | 1AJ | 8549 |
| 1567 | 3037 | | | LDD | EP | | NS2031 | 279 |
| 1570 | 0513 | | | NJN | LDE2 | IF *3AM* CALL REQUIRED | NS2031 | 280 |
| 1571 | 2003 | 0000 | | LDC | CPON | DIAGNOSTIC TO CP DAYFILE | 1AJ | 8550 |

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|---------|---|---------------------------|---------|------|
| IDENT | 3AD,SFOX | SEARCH FOR OVERLAY. | 1AJ | 8560 |
| COMMENT | 82/02/26. 95/06/23. | 1AJ - SEARCH FOR OVERLAY. | 1AJ | 8561 |
| COMMENT | COPYRIGHT CONTROL DATA SYSTEMS INC. 1992. | | 281L803 | 9 |

| | | | | | |
|----|-----|---|---------|------|----|
| 1 | | | | | 1 |
| 2 | | | | | 2 |
| 3 | | | | | 3 |
| 4 | | | | | 4 |
| 5 | *** | 3AD - SEARCH FOR OVERLAY. | 1AJ | 8564 | 5 |
| 6 | * | | 1AJ | 8565 | 6 |
| 7 | * | *3AD* SEARCHES A LOCAL FILE FOR AN OVERLAY. | 1AJ | 8566 | 7 |
| 8 | * | | 1AJ | 8567 | 8 |
| 9 | * | IF THE FILE TO BE SEARCHED IS A USER LIBRARY, THE SEARCH | 1AJ | 8568 | 9 |
| 10 | * | IS MADE RANDOMLY VIA THE *OPLD* DIRECTORY. THE OVERLAY IS | 1AJ | 8569 | 10 |
| 11 | * | SEARCHED FOR BY NAME AND TYPE (0,0 VS. NON-0,0). WHEN AN | 1AJ | 8570 | 11 |
| 12 | * | ENTRY IS FOUND THE FILE IS POSITIONED RANDOMLY AND THE | 1AJ | 8571 | 12 |
| 13 | * | OVERLAY IS THEN CHECKED FOR THE CORRECT LEVEL. | 1AJ | 8572 | 13 |
| 14 | * | | 1AJ | 8573 | 14 |
| 15 | * | IF THE FILE TO BE SEARCHED IS NOT A USER LIBRARY OR THE | 1AJ | 8574 | 15 |
| 16 | * | *OPLD* CANNOT BE LOCATED, AN END AROUND SEARCH OF THE | 1AJ | 8575 | 16 |
| 17 | * | FILE IS MADE FOR AN OVERLAY OF THE REQUESTED LEVEL. | 1AJ | 8576 | 17 |
| 18 | * | | 1AJ | 8577 | 18 |
| 19 | * | WARNING - IF A NON-LIBRARY FILE IS NOT POSITIONED AT THE | 1AJ | 8578 | 19 |
| 20 | * | BEGINNING OF A LOGICAL RECORD, RANDOM DATA COULD POSSIBLY BE | 1AJ | 8579 | 20 |
| 21 | * | INTERPRETED AS A VALID OVERLAY HEADER. | 1AJ | 8580 | 21 |
| 22 | | | | | 22 |
| 23 | | | | | 23 |
| 24 | | | | | 24 |
| 25 | | | | | 25 |
| 26 | *** | DAYFILE MESSAGES. | 1AJ | 8582 | 26 |
| 27 | * | | 1AJ | 8583 | 27 |
| 28 | * | * OVERLAY FILE NOT FOUND.* = REQUESTED FILE IS NOT AVAILABLE. | 1AJ | 8584 | 28 |
| 29 | * | | 1AJ | 8585 | 29 |
| 30 | * | * OVERLAY FILE EMPTY.* = NO DATA APPEARS IN REQUESTED FILE. | 1AJ | 8586 | 30 |
| 31 | * | | 1AJ | 8587 | 31 |
| 32 | * | * OVERLAY NOT FOUND.* = REQUESTED OVERLAY IS NOT ON FILE. | 1AJ | 8588 | 32 |
| 33 | * | | 1AJ | 8589 | 33 |
| 34 | * | * FILE NOT ON MASS STORAGE.* | 1AJ | 8590 | 34 |
| 35 | * | | 1AJ | 8591 | 35 |
| 36 | * | * ENTRY POINT NOT FOUND.* = REQUESTED ENTRY POINT IS NOT | 1AJ | 8592 | 36 |
| 37 | * | ON FILE. | 1AJ | 8593 | 37 |
| 38 | * | | 1AJ | 8594 | 38 |
| 39 | * | * I/O SEQUENCE ERROR.* = UNABLE TO SET OVERLAY FILE BUSY. | 1AJ | 8595 | 39 |
| 40 | | | | | 40 |
| 41 | | | | | 41 |
| 42 | | | | | 42 |
| 43 | | | | | 43 |
| 44 | ** | SFO - MAIN ROUTINE. | 1AJ | 8597 | 44 |
| 45 | * | | 1AJ | 8598 | 45 |
| 46 | * | ENTRY (CW) = 1, IF LOCAL FILE LOAD. | 1AJ2 | 1 | 46 |
| 47 | * | (CW) = 0, IF LIBRARY LOAD. | 1AJ2 | 2 | 47 |
| 48 | * | | 1AJ2 | 3 | 48 |
| 49 | * | EXIT (T1) = CM WORD COUNT OF SECTOR IN *BFMS*. | 1AJ | 8599 | 49 |
| 50 | * | TO */3AE/MSR*, IF MASS STORAGE ERROR. | 242L642 | 438 | 50 |
| 51 | * | | 1AJ | 8600 | 51 |
| 52 | * | CALLS CEL, /3AE/CPF, /3AE/RNS, SAF, SFB, SOD. | 1AJ72 | 1 | 52 |
| 53 | * | | 1AJ | 8602 | 53 |
| 54 | * | MACROS ENDMS, SETMS, SFA. | NS22000 | 227 | 54 |
| 55 | | | | | 55 |
| 56 | | | | | 56 |
| 57 | | | | | 57 |
| 58 | | | | | 58 |
| 59 | | | | | 59 |
| 60 | | | | | 60 |

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| Line | Address | Org | ELDR | Description | Page | Address |
|------|---------|------|-------------|---|---------|---------|
| | 1632 | | ORG ELDR | | 1AJ | 8604 |
| 1 | 1632 | 0100 | 1632 SF0 | SUBR ENTRY/EXIT | 1AJ | 8605 |
| 2 | 1634 | 3060 | | LDD CW CHECK FOR USER LIBRARY LOAD | 1AJ2 | 4 |
| 3 | 1635 | 0405 | | ZJN SF00 IF USER LIBRARY LOAD | 1AJ2 | 5 |
| 4 | 1636 | 1400 | | LDN 0 CLEAR LIBRARY LOAD FLAG | 1AJ2 | 6 |
| 5 | 1637 | 5400 | 5260 | STM /3AE/SLPD | 1AJ2 | 7 |
| 6 | 1641 | 0305 | | UJN SF01 SEARCH FOR FILE | 1AJ2 | 8 |
| 7 | | | | | 1AJ2 | 9 |
| 8 | 1642 | 2000 | 1401 SF00 | LDC LDNI+1 FORCE LOAD FROM USER LIBRARY | 1AJ2 | 10 |
| 9 | 1644 | 5400 | 1755 | STM SFOA | 1AJ2 | 11 |
| 10 | 1646 | 0200 | 2466 SF01 | RJM SAF SEARCH FOR ASSIGNED FILE | 1AJ | 8614 |
| 11 | 1650 | 0504 | | NJN SF02 IF FOUND | 1AJ | 8615 |
| 12 | 1651 | 2000 | 2661 | LDC =C* OVERLAY FILE NOT FOUND.* | 1AJ | 8616 |
| 13 | 1653 | 0310 | | UJN SF03 PROCESS ERROR | 1AJ | 8617 |
| 14 | | | | | 1AJ | 8618 |
| 15 | 1654 | 0200 | 2543 SF02 | RJM SFB SET FILE BUSY | 1AJ | 8619 |
| 16 | 1656 | 0407 | | ZJN SF04 IF FILE SET BUSY | 1AJ | 8620 |
| 17 | 1657 | 1400 | | LDN 0 | 1AJ | 8621 |
| 18 | 1660 | 3457 | | STD FA CLEAR FNT ADDRESS | 1AJ | 8622 |
| 19 | 1661 | 2000 | 2676 | LDC =C* I/O SEQUENCE ERROR.* | 1AJ | 8623 |
| 20 | 1663 | 0100 | 1545 SF03 | LJM LDE PROCESS ERROR | 1AJ | 8624 |
| 21 | | | | | 1AJ | 8625 |
| 22 | 1665 | 3013 | | SF04 LDD CM+3 SAVE FILE STATUS | 1AJ | 8626 |
| 23 | 1666 | 3402 | | STD T2 | 1AJ | 8627 |
| 24 | 1667 | 3020 | | LDD FS SET EST ORDINAL | NS22000 | 228 |
| 25 | 1670 | 3405 | | STD T5 | 1AJ | 8630 |
| 26 | 1671 | 0200 | 0245 | SFA EST READ EST ENTRY | NS22000 | 229 |
| 27 | | | | ADK EQDE | NS22000 | 230 |
| 28 | 1673 | 6010 | | CRD CM | 1AJ | 8632 |
| 29 | 1674 | 3010 | | LDD CM CHECK EQUIPMENT | 1AJ | 8633 |
| 30 | 1675 | 1006 | | SHN 6 | 1AJ | 8634 |
| 31 | 1676 | 0704 | | MJN SF05 IF MASS STORAGE | 1AJ | 8635 |
| 32 | 1677 | 2000 | 2711 | LDC =C* FILE NOT ON MASS STORAGE.* | 1AJ | 8636 |
| 33 | 1701 | 0361 | | UJN SF03 PROCESS ERROR | 1AJ | 8637 |
| 34 | | | | | 1AJ | 8638 |
| 35 | 1702 | 3002 | | SF05 LDD T2 CHECK FILE STATUS | 1AJ | 8639 |
| 36 | 1703 | 1204 | | LPN 4 | 1AJ | 8640 |
| 37 | 1704 | 0427 | | ZJN SF07 IF NOT EXECUTE-ONLY | 1AJ | 8641 |
| 38 | 1705 | 3074 | | LDD CP CHECK VALID ACCESS | 1AJ | 8642 |
| 39 | 1706 | 2100 | 0115 | ADC EOCW | 1AJ | 8643 |
| 40 | 1710 | 6010 | | CRD CM | 1AJ | 8644 |
| 41 | 1711 | 3010 | | LDD CM | 1AJ | 8645 |
| 42 | 1712 | 3357 | | LMD FA | 1AJ | 8646 |
| 43 | 1713 | 0420 | | ZJN SF07 IF VALID ACCESS | 1AJ | 8647 |
| 44 | 1714 | 3066 | | LDD LV | 1AJ8 | 1 |
| 45 | 1715 | 0512 | | NJN SF05.1 IF NOT MAIN OVERLAY LOAD | 1AJ8 | 2 |
| 46 | 1716 | 3057 | | LDD FA RESET FILE ADDRESS | 1AJ8 | 3 |
| 47 | 1717 | 3410 | | STD CM | 1AJ8 | 4 |
| 48 | 1720 | 3074 | | LDD CP | 1AJ8 | 5 |
| 49 | 1721 | 2100 | 0115 | ADC EOCW | 1AJ8 | 6 |
| 50 | 1723 | 6210 | | CWD CM | 1AJ8 | 7 |
| 51 | 1724 | 0200 | 2172 | RJM CEL CLEAR ERROR PROCESSING | 1AJ72 | 2 |
| 52 | 1726 | 0305 | | UJN SF07 CONTINUE | 1AJ8 | 8 |
| 53 | | | | | 1AJ8 | 9 |
| 54 | 1727 | 2000 | 2727 SF05.1 | LDC =C* I/O ON EXECUTE-ONLY FILE.* | 1AJ8 | 10 |

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|------|-----------|-------|-------|--------------|----------------------------------|---------|------|
| 1731 | 0100 1545 | SF06 | LJM | LDE | ABORT | 1AJ | 8649 |
| 1733 | 3023 | SF07 | LDD | FS+3 | SET SECTOR | 1AJ | 8650 |
| 1734 | 3407 | | STD | T7 | | 1AJ | 8651 |
| 1735 | 3022 | | LDD | FS+2 | SET TRACK | 1AJ | 8652 |
| 1736 | 3406 | | STD | T6 | | 1AJ | 8653 |
| 1737 | 0504 | | NJN | SF08 | IF FILE USED | 1AJ | 8654 |
| 1740 | 2000 2745 | | LDC | =C* OVERLAY | FILE EMPTY.* | 1AJ | 8655 |
| 1742 | 0366 | | UJN | SF06 | ABORT | 1AJ | 8656 |
| 1743 | 1440 | SF08 | LDN | 40 | SET ERROR EXIT FLAG | 1AJ | 8657 |
| 1744 | 5500 6026 | | RAM | /3AE/MSRB | | 242L642 | 439 |
| 1746 | 2000 1545 | | LDC | LDE | SET EXIT ADDRESS ON DISK ERROR | 1AJ | 8658 |
| 1750 | 5400 6031 | | STM | /3AE/MSRC | | 242L642 | 440 |
| 1752 | 1404 | | SETMS | READSTR | | 242L642 | 441 |
| 1755 | 3037 | SFOA | LDD | EP | CHECK CALL BLOCK SIZE | 1AJ | 8662 |
| | | * | LDN | 1 | FORCE LOAD FROM USER LIBRARY | 1AJ | 8663 |
| 1756 | 0416 | | ZJN | SF09 | IF NOT 3 OR 4 WORD CALL BLOCK | 1AJ | 8664 |
| 1757 | 0200 2244 | | RJM | SOD | SEARCH *OPLD* DIRECTORY | 1AJ | 8665 |
| 1761 | 3037 | | LDD | EP | SET ENTRY POINT FLAG | 1AJ | 8666 |
| 1762 | 1076 | | SHN | -1 | | 1AJ | 8667 |
| 1763 | 3437 | | STD | EP | | 1AJ | 8668 |
| 1764 | 0410 | | ZJN | SF09 | IF NOT 4 WORD CALL BLOCK | 1AJ | 8669 |
| 1765 | 3053 | | LDA | IR+3 | READ ENTRY POINT WORD | 1AJ | 8670 |
| 1772 | 1603 | | ADN | 3 | | 1AJ | 8671 |
| 1773 | 6060 | | CRD | CW | | 1AJ | 8672 |
| 1774 | 0100 2051 | SF09 | LJM | SF018 | ENTER LOOP | 1AJ | 8673 |
| | | * | | SEARCH FILE. | | 1AJ | 8674 |
| 1776 | 5000 6776 | SF010 | LDM | BFMS | CHECK FOR EOI | 1AJ | 8675 |
| 2000 | 5100 6777 | | ADM | BFMS+1 | | 1AJ | 8676 |
| 2002 | 0506 | | NJN | SF011 | IF FILE NOT AT EOI | 1AJ | 8677 |
| 2003 | 3021 | | LDD | FS+1 | REWIND FILE | 1AJ | 8678 |
| 2004 | 3406 | | STD | T6 | | 1AJ | 8679 |
| 2005 | 1401 | | LDN | FSMS | | 1AJ | 8680 |
| 2006 | 3407 | | STD | T7 | | 1AJ | 8681 |
| 2007 | 0303 | | UJN | SF012 | PAUSE AT EOI | 1AJ | 8682 |
| 2010 | 3007 | SF011 | LDD | T7 | CHECK SECTOR NUMBER | 1AJ | 8683 |
| 2011 | 0503 | | NJN | SF013 | IF NOT START OF NEW TRACK | 1AJ | 8684 |
| 2012 | 0200 0535 | SF012 | ENDMS | | | 1AJ | 8685 |
| 2014 | 3007 | SF013 | LDD | T7 | CHECK STARTING POSITION | 1AJ | 8686 |
| 2015 | 3323 | | LMD | FS+3 | | 1AJ | 8687 |
| 2016 | 0504 | | NJN | SF014 | IF NOT AT STARTING SECTOR NUMBER | 1AJ | 8688 |
| 2017 | 3006 | | LDD | T6 | | 1AJ | 8689 |
| 2020 | 3322 | | LMD | FS+2 | | 1AJ | 8690 |
| 2021 | 0416 | | ZJN | SF016 | IF AT STARTING POSITION | 1AJ | 8691 |
| 2022 | 3016 | SF014 | LDD | WC | CHECK WORD COUNT | 1AJ | 8692 |
| 2023 | 1071 | | SHN | -6 | | 1AJ | 8693 |
| 2024 | 0425 | | ZJN | SF018 | IF NOT FULL PRU | 1AJ | 8694 |
| 2025 | 2000 6776 | | LDC | BFMS | READ NEXT SECTOR | 1AJ | 8695 |
| 2027 | 0200 6735 | | RJM | /3AE/RNS | READ NEXT SECTOR | 1AJ | 8696 |
| 2031 | 0603 | | MJP | /3AE/MSR | IF MASS STORAGE ERROR | 242L642 | 443 |
| 2034 | 3416 | | STD | WC | SAVE WORD COUNT | 1AJ | 8697 |
| 2035 | 0100 1776 | SF015 | LJM | SF010 | CHECK FOR EOI | 1AJ | 8698 |
| | | | | | | 1AJ | 8700 |
| | | | | | | 1AJ | 8701 |
| | | | | | | 1AJ | 8702 |

* ISSUE ERROR MESSAGE.

| | | | | | | | | |
|----|------|-----------|-------|-------|-------------------------|--|-----|------|
| | | | | | | | 1AJ | 8703 |
| | | | | | | | 1AJ | 8704 |
| | | | | | | | 1AJ | 8705 |
| 1 | 2037 | 0200 0535 | SF016 | ENDMS | | | 1AJ | 8706 |
| 2 | 2041 | 2000 2760 | | LDC | =C* OVERLAY NOT FOUND.* | | 1AJ | 8707 |
| 3 | 2043 | 0100 1545 | | LJM | LDE | PROCESS ERROR | 1AJ | 8708 |
| 4 | 2045 | 1400 | SF017 | LDN | 0 | RESET ENTRY POINT BIAS | 1AJ | 8709 |
| 5 | 2046 | 5400 5042 | | STM | /3AE/SLPA | | 1AJ | 8710 |
| 6 | 2050 | 0364 | | UJN | SF015 | CHECK FOR EOI | 1AJ | 8711 |
| 7 | | | | | | | 1AJ | 8712 |
| 8 | | | * | | | CHECK RECORD FOR OVERLAY OF CORRECT LEVEL. | 1AJ | 8713 |
| 9 | | | | | | | 1AJ | 8714 |
| 10 | 2051 | 0200 6347 | SF018 | RJM | /3AE/CPF | CHECK PROGRAM FORMAT | 1AJ | 8715 |
| 11 | 2053 | 0571 | | NJN | SF017 | IF ERROR | 1AJ | 8716 |
| 12 | 2054 | 5003 0003 | | LDM | 3,T3 | CHECK LEVEL | 1AJ | 8717 |
| 13 | 2056 | 3366 | | LMD | LV | | 1AJ | 8718 |
| 14 | 2057 | 0565 | | NJN | SF017 | IF NOT REQUESTED OVERLAY | 1AJ | 8719 |
| 15 | | | | | | | 1AJ | 8720 |
| 16 | | | * | | | CHECK PROGRAM FORMAT. | 1AJ | 8721 |
| 17 | | | | | | | 1AJ | 8722 |
| 18 | 2060 | 3065 | | LDD | PF | | 1AJ | 8723 |
| 19 | 2061 | 3137 | | ADD | EP | | 1AJ | 8724 |
| 20 | 2062 | 1103 | | LMN | 3 | | 1AJ | 8725 |
| 21 | 2063 | 0403 | | ZJN | SF019 | IF *ABS* AND 4 WORD *LDR* CALL | 1AJ | 8726 |
| 22 | 2064 | 0100 1632 | | LJM | SFOX | RETURN | 1AJ | 8727 |
| 23 | | | | | | | 1AJ | 8728 |
| 24 | 2066 | 1477 | SF019 | LDN | 77 | SET MAXIMUM ENTRY COUNT | 1AJ | 8729 |
| 25 | 2067 | 5200 5042 | | SBM | /3AE/SLPA | SUBTRACT 5400 TABLE HEADER IF PRESENT | 1AJ | 8730 |
| 26 | 2071 | 3410 | | STD | CM | | 1AJ | 8731 |
| 27 | 2072 | 1777 | | SBN | 77 | | 1AJ | 8732 |
| 28 | 2073 | 0405 | | ZJN | SF020 | IF NO 54 TABLE | 1AJ | 8733 |
| 29 | 2074 | 2000 1452 | | LDC | LDNI+2+10*5 | ADVANCE SEARCH ADDRESS | 1AJ | 8734 |
| 30 | 2076 | 5400 2127 | | STM | SFOB | | 1AJ | 8735 |
| 31 | 2100 | 3003 | SF020 | LDD | T3 | | 1AJ | 8736 |
| 32 | 2101 | 2300 6776 | | LMC | BFMS | | 1AJ | 8737 |
| 33 | 2103 | 0405 | | ZJN | SF021 | IF NO *7700* TABLE | 1AJ | 8738 |
| 34 | 2104 | 3010 | | LDD | CM | | 1AJ | 8739 |
| 35 | 2105 | 5200 7001 | | SBM | BFMS+3 | ADJUST MAXIMUM ENTRY COUNT | 1AJ | 8740 |
| 36 | 2107 | 3410 | | STD | CM | | 1AJ | 8741 |
| 37 | 2110 | 5003 0005 | SF021 | LDM | 5,T3 | | 1AJ | 8742 |
| 38 | 2112 | 1277 | | LPN | 77 | | 1AJ | 8743 |
| 39 | 2113 | 1014 | | SHN | 14 | CHECK ENTRY COUNT | 1AJ | 8744 |
| 40 | 2114 | 5303 0006 | | LMM | 6,T3 | | 1AJ | 8745 |
| 41 | 2116 | 0603 | | PJN | SF022 | IF COUNT POSITIVE | 1AJ | 8746 |
| 42 | 2117 | 2377 7777 | | LMC | -0 | | 1AJ | 8747 |
| 43 | 2121 | 3402 | SF022 | STD | T2 | SET ENTRY COUNT | 1AJ | 8748 |
| 44 | 2122 | 3210 | | SBD | CM | | 1AJ | 8749 |
| 45 | 2123 | 0633 | | PJN | SF025 | IF ENTRIES NOT ALL ON 1ST SECTOR | 1AJ | 8750 |
| 46 | 2124 | 3110 | | ADD | CM | | 1AJ | 8751 |
| 47 | 2125 | 5500 2164 | | RAM | SFOC | | 1AJ | 8752 |
| 48 | 2127 | 1407 | SFOB | LDN | 2+5 | | 1AJ | 8753 |
| 49 | | | * | LDN | 2+10*5 | (54 TABLE) | 1AJ | 8754 |
| 50 | 2130 | 3103 | | ADD | T3 | SET INDEX TO 1ST ENTRY | 1AJ | 8755 |
| 51 | 2131 | 3410 | | STD | CM | | 1AJ | 8756 |
| 52 | 2132 | 4010 | SF023 | LDI | CM | CHECK BYTE 0 | 1AJ | 8757 |
| 53 | 2133 | 3360 | | LMD | CW | | 1AJ | 8758 |
| 54 | 2134 | 0516 | | NJN | SF024 | IF NO MATCH | 1AJ | 8759 |

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| 2135 | 5010 | 0001 | | LDM | 1,CM | | 1AJ | 8760 |
| 2137 | 3361 | | | LMD | CW+1 | | 1AJ | 8761 |
| 2140 | 0512 | | | NJN | SF024 | IF NO MATCH ON BYTE 1 | 1AJ | 8762 |
| 2141 | 5010 | 0002 | | LDM | 2,CM | | 1AJ | 8763 |
| 2143 | 3362 | | | LMD | CW+2 | | 1AJ | 8764 |
| 2144 | 0506 | | | NJN | SF024 | IF NO MATCH ON BYTE 2 | 1AJ | 8765 |
| 2145 | 5010 | 0003 | | LDM | 3,CM | | 1AJ | 8766 |
| 2147 | 3363 | | | LMD | CW+3 | | 1AJ | 8767 |
| 2150 | 1377 | | | SCN | 77 | | 1AJ | 8768 |
| 2151 | 0413 | | | ZJN | SF026 | IF ENTRY FOUND | 1AJ | 8769 |
| 2152 | 1405 | | SF024 | LDN | 5 | | 1AJ | 8770 |
| 2153 | 3510 | | | RAD | CM | ADVANCE INDEX | 1AJ | 8771 |
| 2154 | 3702 | | | SOD | T2 | DECREMENT ENTRY COUNT | 1AJ | 8772 |
| 2155 | 0554 | | | NJN | SF023 | IF NOT END OF ENTRIES | 1AJ | 8773 |
| 2156 | 0200 | 0535 | SF025 | ENDMS | | | 1AJ | 8774 |
| 2160 | 2000 | 2773 | | LDC | =C* | ENTRY POINT NOT FOUND.* | 1AJ | 8775 |
| 2162 | 0100 | 1545 | | LJM | LDE | PROCESS ERROR | 1AJ | 8776 |
| | | | | | | | 1AJ | 8777 |
| 2164 | 1400 | | SF026 | LDN | 0 | | 1AJ | 8778 |
| | | 2164 | SFOC | EQU | *-1 | | 1AJ | 8779 |
| 2165 | 3202 | | | SBD | T2 | SET INDEX TO ENTRY | 1AJ | 8780 |
| 2166 | 3437 | | | STD | EP | | 1AJ | 8781 |
| 2167 | 0100 | 1632 | | LJM | SFOX | RETURN | 1AJ | 8782 |
| | | | | | | | | |
| | | | ** | CEL | | CLEAR ERROR PROCESSING. | 1AJ72 | 4 |
| | | | * | | | | 1AJ72 | 5 |
| | | | * | EXIT | | EREXIT, DISTC AND REPRIEVE PROCESSING CLEARED. | 1AJ72 | 6 |
| | | | * | | | SECURE MEMORY STATUS SET. | 1AJ72 | 7 |
| | | | * | | | | 1AJ72 | 8 |
| | | | * | USES | | CM - CM+4. | 1AJ72 | 9 |
| | | | | | | | 1AJ72 | 10 |
| | | | | | | | 1AJ72 | 11 |
| 2171 | 0100 | 2171 | CEL | SUBR | | ENTRY/EXIT | 1AJ72 | 12 |
| 2173 | 3074 | | | LDD | CP | CLEAR EREXIT AND REPRIEVE PROCESSING | 1AJ72 | 13 |
| 2174 | 1671 | | | ADN | EECW | | 1AJ72 | 14 |
| 2175 | 6010 | | | CRD | CM | | 1AJ72 | 15 |
| 2176 | 1400 | | | LDN | 0 | | 1AJ72 | 16 |
| 2177 | 3414 | | | STD | CM+4 | | 1AJ72 | 17 |
| 2200 | 3411 | | | STD | CM+1 | | 1AJ72 | 18 |
| 2201 | 3010 | | | LDD | CM | | 1AJ72 | 19 |
| 2202 | 2200 | 4000 | | LPC | 4000 | | 1AJ72 | 20 |
| 2204 | 3410 | | | STD | CM | | 1AJ72 | 21 |
| 2205 | 3013 | | | LDD | CM+3 | | 1AJ72 | 22 |
| 2206 | 1337 | | | SCN | 37 | | 1AJ72 | 23 |
| 2207 | 3413 | | | STD | CM+3 | | 1AJ72 | 24 |
| 2210 | 3074 | | | LDD | CP | | 1AJ72 | 25 |
| 2211 | 1671 | | | ADN | EECW | | 1AJ72 | 26 |
| 2212 | 6210 | | | CWD | CM | | 1AJ72 | 27 |
| 2213 | 1620 | | | ADN | DBAW-EECW | SET SECURE MEMORY STATUS | 1AJ72 | 28 |
| 2214 | 6010 | | | CRD | CM | | 1AJ72 | 29 |
| 2215 | 3010 | | | LDD | CM | | 1AJ72 | 30 |
| 2216 | 2200 | 3777 | | LPC | 3777 | | 1AJ72 | 31 |
| 2220 | 2300 | 4000 | | LMC | 4000 | | 1AJ72 | 32 |
| 2222 | 3410 | | | STD | CM | | 1AJ72 | 33 |

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| 2223 | 3074 | LDD | CP | | 1AJ72 | 34 |
| 2224 | 2100 0111 | ADC | DBAW | | 1AJ72 | 35 |
| 2226 | 6210 | CWD | CM | | 1AJ72 | 36 |
| 2227 | 1723 | SBN | DBAW-TIAW | CLEAR TERMINAL INTERRUPT ADDRESS | 1AJ72 | 37 |
| 2230 | 6010 | CRD | CM | | 1AJ72 | 38 |
| 2231 | 1400 | LDN | 0 | | 1AJ72 | 39 |
| 2232 | 3412 | STD | CM+2 | | 1AJ72 | 40 |
| 2233 | 3013 | LDD | CM+3 | | 1AJ72 | 41 |
| 2234 | 1277 | LPN | 77 | | 1AJ72 | 42 |
| 2235 | 3413 | STD | CM+3 | | 1AJ72 | 43 |
| 2236 | 3074 | LDD | CP | | 1AJ72 | 44 |
| 2237 | 1666 | ADN | TIAW | | 1AJ72 | 45 |
| 2240 | 6210 | CWD | CM | | 1AJ72 | 46 |
| 2241 | 0100 2171 | LJM | CELX | RETURN | 1AJ72 | 47 |
| | | | | | | |
| ** SOD - SEARCH *OPLD* DIRECTORY FOR OVERLAY. 1AJ 8784 | | | | | | |
| * 1AJ 8785 | | | | | | |
| * *SOD* LOOKS FOR AN *OPLD* RECORD ON THE OVERLAY FILE. 1AJ 8786 | | | | | | |
| * IF FOUND THE *OPLD* IS SEARCHED FOR AN OVERLAY OF THE 1AJ 8787 | | | | | | |
| * CORRECT NAME AND TYPE. 1AJ 8788 | | | | | | |
| * 1AJ 8789 | | | | | | |
| * ENTRY (FS - FS+3) = OVERLAY FILE FST ENTRY. 1AJ 8790 | | | | | | |
| * 1AJ 8791 | | | | | | |
| * EXIT TO *SF016* IF OVERLAY NOT FOUND IN *OPLD*. 1AJ 8792 | | | | | | |
| * (T6 - T7) = TRACK AND SECTOR OF OVERLAY. 1AJ 8793 | | | | | | |
| * 1AJ 8794 | | | | | | |
| * USES FS+2, FS+3, RI, RI+1, T2, T3, T6, T7, AB - AB+4. 1AJ 8795 | | | | | | |
| * 1AJ 8796 | | | | | | |
| * CALLS CRA, /3AE/RNS. 1AJ 8797 | | | | | | |
| * 1AJ 8798 | | | | | | |
| * MACROS SETMS. 1AJ 8799 | | | | | | |
| 1AJ 8800 | | | | | | |
| 1AJ 8801 | | | | | | |
| 2243 | 0100 2243 | SOD | SUBR | ENTRY/EXIT | 1AJ | 8802 |
| 2245 | 3037 | LDD | EP | FIND OVERLAY NAME IN CALL BLOCK | 1AJ | 8803 |
| 2246 | 0403 | ZJN | SOD1 | IF OVERLAY NAME IN FIRST WORD OF BLOCK | 1AJ | 8804 |
| 2247 | 1402 | LDN | 2 | READ NAME FROM THIRD WORD OF CALL BLOCK | 1AJ | 8805 |
| 2250 | 1006 | SHN | 6 | | 1AJ | 8806 |
| 2251 | 3153 | SOD1 | ADD | IR+3 | 1AJ | 8807 |
| 2252 | 1006 | SHN | 6 | | 1AJ | 8808 |
| 2253 | 3155 | ADD | RA | | 1AJ | 8809 |
| 2254 | 1006 | SHN | 6 | | 1AJ | 8810 |
| 2255 | 3154 | ADD | IR+4 | (A) = ABSOLUTE CM ADDRESS OF *OVLNAME* | 1AJ | 8811 |
| 2256 | 6032 | CRD | AB | (AB - AB-4) CONTAINS OVERLAY NAME | 1AJ | 8812 |
| 2257 | 3021 | LDD | FS+1 | SET FILE TO *BOI* | 1AJ | 8813 |
| 2260 | 3406 | STD | T6 | FIRST TRACK | 1AJ | 8814 |
| 2261 | 1401 | LDN | FSMS | SET FIRST SECTOR | 1AJ | 8815 |
| 2262 | 3407 | STD | T7 | | 1AJ | 8816 |
| 2263 | 1400 | SETMS | POSITION | NOTE RANDOM POSITION | 242L642 | 444 |
| 2265 | 2000 6776 | LDC | BFMS | BUFFER ADDRESS | 1AJ | 8818 |
| 2267 | 0200 6735 | RJM | /3AE/RNS | READ NEXT SECTOR | 1AJ | 8819 |
| 2271 | 0736 | MJN | SOD3.1 | IF MASS STORAGE ERROR | 242L642 | 445 |
| 2272 | 0507 | NJN | SOD3 | IF DATA TRANSFERED | 1AJ | 8820 |
| 2273 | 3023 | SOD2 | LDD | FS+3 | 1AJ | 8821 |

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|------|-----------|--------|-------|---------------|--|---------|------|
| 2274 | 3407 | | STD | T7 | STORE SECTOR | 1AJ | 8822 |
| 2275 | 3022 | | LDD | FS+2 | | 1AJ | 8823 |
| 2276 | 3406 | | STD | T6 | SET TRACK | 1AJ | 8824 |
| 2277 | 0100 2243 | | LJM | SODX | RETURN | 1AJ | 8825 |
| | | | | | | 1AJ | 8826 |
| 2301 | 1720 | SOD3 | SBN | 20B | CHECK FOR VALID PREFIX/ULIB RECORD | 1AJ | 8827 |
| 2302 | 0770 | | MJN | SOD2 | IF LESS THAN 20B WORDS TRANSFERED | 1AJ | 8828 |
| 2303 | 5000 7113 | | LDM | BFMS+2+5*17 | FIRST WORD OF ULIB TABLE | 1AJ | 8829 |
| 2305 | 2300 7600 | | LMC | 7600B | | 1AJ | 8830 |
| 2307 | 0563 | | NJN | SOD2 | IF NOT A ULIB RECORD | 1AJ | 8831 |
| 2310 | 5000 7115 | | LDM | BFMS+2+5*17+2 | STORE OPLD RANDOM ADDRESS IN RI - RI+1 | 1AJ | 8832 |
| 2312 | 3416 | | STD | RI | | 1AJ | 8833 |
| 2313 | 5000 7116 | | LDM | BFMS+2+5*17+3 | | 1AJ | 8834 |
| 2315 | 3417 | | STD | RI+1 | | 1AJ | 8835 |
| 2316 | 0200 2562 | | RJM | CRA | CONVERT RANDOM ADDRESS | 1AJ | 8836 |
| 2320 | 0752 | | MJN | SOD2 | IF RANDOM ADDRESS NOT ON TRT CHAIN | 1AJ | 8837 |
| 2321 | 1400 | | SETMS | POSITION | NOTE RANDOM POSITION | 242L642 | 446 |
| 2323 | 2000 6776 | | LDC | BFMS | BUFFER ADDRESS | 1AJ | 8839 |
| 2325 | 0200 6735 | | RJM | /3AE/RNS | READ NEXT SECTOR | 1AJ | 8840 |
| 2327 | 0725 | SOD3.1 | MJN | SOD6.1 | IF MASS STORAGE ERROR | 242L642 | 447 |
| 2330 | 0503 | | NJN | SOD4 | IF *OPLD* NOT EMPTY | 1AJ | 8841 |
| 2331 | 0100 2273 | | LJM | SOD2 | RESTORE ORIGINAL FILE POSITION | 1AJ | 8842 |
| | | | | | | 1AJ | 8843 |
| 2333 | 5000 7000 | SOD4 | LDM | BFMS+2 | CHECK FOR VALID OPLD TABLE | 1AJ | 8844 |
| 2335 | 2300 7700 | | LMC | 7700B | | 1AJ | 8845 |
| 2337 | 0507 | | NJN | SOD5 | IF NOT VALID OPLD TABLE | 1AJ | 8846 |
| 2340 | 2000 7120 | | LDC | BFMS+2+5*20 | FIRST ENTRY IN BUFFER | 1AJ | 8847 |
| 2342 | 3402 | | STD | T2 | | 1AJ | 8848 |
| 2343 | 1420 | | LDN | 20 | CM WORD IN BUFFER | 1AJ | 8849 |
| 2344 | 3403 | | STD | T3 | | 1AJ | 8850 |
| 2345 | 0322 | | UJN | SOD9 | ENTER MAIN LOOP | 1AJ | 8851 |
| | | | | | | 1AJ | 8852 |
| 2346 | 0100 2273 | SOD5 | LJM | SOD2 | RESTORE ORIGINAL FILE POSITION | 1AJ | 8853 |
| | | | | | | 1AJ | 8854 |
| | | * | | | SEARCH OPLD FOR OVERLAY. | 1AJ | 8855 |
| | | | | | | 1AJ | 8856 |
| 2350 | 2000 6776 | SOD6 | LDC | BFMS | BUFFER ADDRESS | 1AJ | 8857 |
| 2352 | 0200 6735 | | RJM | /3AE/RNS | READ NEXT SECTOR | 1AJ | 8858 |
| 2354 | 0603 | SOD6.1 | MJP | /3AE/MSR | IF MASS STORAGE ERROR | 242L642 | 448 |
| 2357 | 0503 | | NJN | SOD8 | IF NOT EMPTY SECTOR | 1AJ | 8859 |
| 2360 | 0100 2037 | SOD7 | LJM | SF016 | IF OVERLAY NOT FOUND | 1AJ | 8860 |
| | | | | | | 1AJ | 8861 |
| | | * | | | SEARCH DIRECTORY. | 1AJ | 8862 |
| | | | | | | 1AJ | 8863 |
| 2362 | 2000 7000 | SOD8 | LDC | BFMS+2 | PP WORD TO START SEARCH | 1AJ | 8864 |
| 2364 | 3402 | | STD | T2 | | 1AJ | 8865 |
| 2365 | 1401 | | LDN | 1 | CM WORD TO START SEARCH | 1AJ | 8866 |
| 2366 | 3403 | | STD | T3 | | 1AJ | 8867 |
| 2367 | 3001 | SOD9 | LDD | T1 | READ WORDS TRANSFERRED | 1AJ | 8868 |
| 2370 | 3203 | | SBD | T3 | CM WORD POSITION | 1AJ | 8869 |
| 2371 | 0605 | | PJN | SOD10 | IF MORE ENTRIES IN BUFFER | 1AJ | 8870 |
| 2372 | 3001 | | LDD | T1 | | 1AJ | 8871 |
| 2373 | 1071 | | SHN | -6 | CHECK FOR SHORT PRU | 1AJ | 8872 |
| 2374 | 0553 | | NJN | SOD6 | IF FULL PRU | 1AJ | 8873 |
| 2375 | 0362 | | UJN | SOD7 | ENTRY NOT FOUND | 1AJ | 8874 |
| | | | | | | 1AJ | 8875 |
| 2376 | 4002 | SOD10 | LDI | T2 | CHECK OVERLAY NAME | 1AJ | 8876 |

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|------|-----------|-------|-----|-----------|--|-----|------|
| 2377 | 3332 | | LMD | AB | | 1AJ | 8877 |
| 2400 | 0516 | | NJN | SOD11 | IF NO MATCH | 1AJ | 8878 |
| 2401 | 5002 0001 | | LDM | 1,T2 | | 1AJ | 8879 |
| 2403 | 3333 | | LMD | AB+1 | | 1AJ | 8880 |
| 2404 | 0512 | | NJN | SOD11 | IF NO MATCH | 1AJ | 8881 |
| 2405 | 5002 0002 | | LDM | 2,T2 | | 1AJ | 8882 |
| 2407 | 3334 | | LMD | AB+2 | | 1AJ | 8883 |
| 2410 | 0506 | | NJN | SOD11 | IF NO MATCH | 1AJ | 8884 |
| 2411 | 5002 0003 | | LDM | 3,T2 | | 1AJ | 8885 |
| 2413 | 3335 | | LMD | AB+3 | | 1AJ | 8886 |
| 2414 | 1377 | | SCN | 77 | | 1AJ | 8887 |
| 2415 | 0406 | | ZJN | SOD12 | IF OVERLAY FOUND | 1AJ | 8888 |
| 2416 | 1402 | SOD11 | LDN | 2 | INCREMENT CM WORD COUNT | 1AJ | 8889 |
| 2417 | 3503 | | RAD | T3 | | 1AJ | 8890 |
| 2420 | 1412 | | LDN | 10D | INCREMENT BUFFER POINTER | 1AJ | 8891 |
| 2421 | 3502 | | RAD | T2 | | 1AJ | 8892 |
| 2422 | 0344 | | UJN | SOD9 | CHECK NEXT ENTRY | 1AJ | 8893 |
| | | | | | | 1AJ | 8894 |
| | | * | | | CHECK PROGRAM FOR PROPER LEVEL. | 1AJ | 8895 |
| | | | | | | 1AJ | 8896 |
| 2423 | 5002 0004 | SOD12 | LDM | 4,T2 | CHECK PROGRAM TYPE | 1AJ | 8897 |
| 2425 | 1111 | | LMN | ABRT | | 1AJ | 8898 |
| 2426 | 0504 | | NJN | SOD13 | IF NOT 0,0(ABS) | 1AJ | 8899 |
| 2427 | 3066 | | LDD | LV | CHECK LEVEL REQUESTED | 1AJ | 8900 |
| 2430 | 0565 | | NJN | SOD11 | IF REQUEST NOT FOR 0,0 | 1AJ | 8901 |
| 2431 | 0305 | | UJN | SOD14 | FIND RANDOM ADDRESS | 1AJ | 8902 |
| | | | | | | 1AJ | 8903 |
| 2432 | 1115 | SOD13 | LMN | OVRT&ABRT | | 1AJ | 8904 |
| 2433 | 0562 | | NJN | SOD11 | IF NOT AN OVERLAY | 1AJ | 8905 |
| 2434 | 3066 | | LDD | LV | CHECK LEVEL REQUESTED | 1AJ | 8906 |
| 2435 | 0460 | | ZJN | SOD11 | IF REQUEST IS FOR 0,0 | 1AJ | 8907 |
| | | | | | | 1AJ | 8908 |
| | | * | | | FOUND OVERLAY OF PROPER LEVEL, CONVERT ITS RANDOM ADDRESS. | 1AJ | 8909 |
| | | | | | | 1AJ | 8910 |
| 2436 | 5002 0010 | SOD14 | LDM | 1*5+3,T2 | SET RANDOM INDEX | 1AJ | 8911 |
| 2440 | 3416 | | STD | RI | | 1AJ | 8912 |
| 2441 | 5002 0011 | | LDM | 1*5+4,T2 | | 1AJ | 8913 |
| 2443 | 3417 | | STD | RI+1 | | 1AJ | 8914 |
| 2444 | 3116 | | ADD | RI | | 1AJ | 8915 |
| 2445 | 0414 | | ZJN | SOD15 | IF RANDOM INDEX IS ZERO | 1AJ | 8916 |
| 2446 | 3021 | | LDD | FS+1 | SET TO FIRST TRACK | 1AJ | 8917 |
| 2447 | 3406 | | STD | T6 | | 1AJ | 8918 |
| 2450 | 0200 2562 | | RJM | CRA | CONVERT RANDOM ADDRESS | 1AJ | 8919 |
| 2452 | 0707 | | MJN | SOD15 | IF RANDOM ADDRESS NOT ON DISK | 1AJ | 8920 |
| | | | | | | 1AJ | 8921 |
| | | * | | | SET FILE POSITION TO *BOI* TO MINIMIZE SEARCH TIME | 1AJ | 8922 |
| | | * | | | IN CASE OVERLAY NAME FOUND IN *OPLD* IS NOT THE | 1AJ | 8923 |
| | | * | | | CORRECT LEVEL. THIS WILL ALSO MINIMIZE THE POSSIBILITY | 1AJ | 8924 |
| | | * | | | OF AN OVERLAY OF THE CORRECT LEVEL AND WRONG NAME | 1AJ | 8925 |
| | | * | | | BEING LOADED. | 1AJ | 8926 |
| | | | | | | 1AJ | 8927 |
| 2453 | 3021 | | LDD | FS+1 | SET CURRENT TRACK = FIRST TRACK | 1AJ | 8928 |
| 2454 | 3422 | | STD | FS+2 | | 1AJ | 8929 |
| 2455 | 1401 | | LDN | FSMS | SET FIRST SECTOR | 1AJ | 8930 |
| 2456 | 3423 | | STD | FS+3 | | 1AJ | 8931 |
| 2457 | 0100 2243 | | LJM | SODX | RETURN | 1AJ | 8932 |
| | | | | | | 1AJ | 8933 |

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2461 0100 2037 SOD15 LJM SF016 OVERLAY NOT FOUND 1AJ 8934

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| 1 | | | | | | | | | | 1 |
| 2 | | | | | | | | | | 2 |
| 3 | | | ** | | COMMON DECKS. | | | 1AJ | 8936 | 3 |
| 4 | | | | | | | | 1AJ | 8937 | 4 |
| 5 | | | | | | | | 1AJ | 8938 | 5 |
| 6 | | | 32 | FN | EQU | AB | FILE NAME | 1AJ | 8939 | 6 |
| 7 | | | 16 | RI | EQU | T8 | RANDOM INDEX (2 WORDS) | 1AJ | 8940 | 7 |
| 8 | 2463 | | | | CTEXT | COMPSAF | - SEARCH FOR ASSIGNED FILE. | COMPSAF | 1 | 8 |
| 9 | 2533 | | | | CTEXT | COMPSFB | - SET FILE BUSY. | COMPSFB | 1 | 9 |
| 10 | 2561 | | | | CTEXT | COMPCRA | - CONVERT RANDOM ADDRESS. | COMPCRA | 1 | 10 |
| 11 | | | | | | | | 1AJ | 8944 | 11 |
| 12 | | | | | USE | LITERALS | | 1AJ | 8945 | 12 |
| 13 | | | | | | | | 1AJ | 8946 | 13 |
| 14 | | | 1026 | | ERRNG | OVL-5-*-500 | OVERFLOWS INTO OVERLAY AREA | 1AJ | 8947 | 14 |
| 15 | | | | | | | | | | 15 |
| 16 | | | | | | | | | | 16 |
| 17 | | | | | | | | | | 17 |
| 18 | | | | | | | | | | 18 |
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|---------|---|---------------------------|--|--|---------|------|
| QUAL | 3AE | | | | 1AJ | 8950 |
| IDENT | 3AE,LCRX | LOAD COPY ROUTINES. | | | 1AJ | 8951 |
| COMMENT | 82/02/26. 95/06/23. | 1AJ - LOAD COPY ROUTINES. | | | 1AJ | 8952 |
| COMMENT | COPYRIGHT CONTROL DATA SYSTEMS INC. 1992. | | | | 281L803 | 10 |

| | | | | | | |
|-----|---|--|--|--|-----|------|
| *** | 3AE - LOAD COPY ROUTINES. | | | | 1AJ | 8955 |
| * | | | | | 1AJ | 8956 |
| * | *3AE* CONTAINS SUBROUTINES USED TO LOAD PROGRAMS. | | | | 1AJ | 8957 |

| | | | | | | |
|-----|---|---------|------|--|-----|------|
| *** | DAYFILE MESSAGES. | | | | 1AJ | 8959 |
| * | | | | | 1AJ | 8960 |
| * | * OVERLAY NOT FOUND.* = REQUESTED OVERLAY WAS NOT FOUND. | | | | 1AJ | 8961 |
| * | | | | | 1AJ | 8962 |
| * | * FL TOO SHORT FOR PROGRAM.* | | | | 1AJ | 8963 |
| * | | | | | 1AJ | 8964 |
| * | * FLE TOO SHORT FOR LOAD.* = EXTENDED MEMORY FL TOO SHORT FOR | V23L617 | 770 | | | |
| * | REQUIRED LOAD. | 1AJ | 8966 | | | |
| * | | 1AJ | 8967 | | | |
| * | * INCORRECT LOAD ADDRESS.* = LOAD ADDRESS .LT. 2 | V23L617 | 771 | | | |
| * | | 1AJ | 8969 | | | |
| * | * LDR - ENTRY POINT NOT FOUND.* = ENTRY POINT | 1AJ | 8970 | | | |
| * | SPECIFIED COULD NOT BE LOCATED BY *1AJ*. | 1AJ | 8971 | | | |
| * | | 1AJ | 8972 | | | |
| * | * UNIDENTIFIED PROGRAM FORMAT.* = THE FILE REQUESTED TO BE | 1AJ | 8973 | | | |
| * | LOADED WAS NOT IN A RECOGNIZED FORMAT. | 1AJ | 8974 | | | |
| * | | 1AJ | 8975 | | | |
| * | * EXTENDED MEMORY LOAD ERROR.* = BAD LOAD ADDRESS FROM | V23L617 | 772 | | | |
| * | EXTENDED MEMORY. | V23L617 | 773 | | | |
| * | | 1AJ | 8977 | | | |
| * | * UNRECOVERED MASS STORAGE ERROR.* = UNRECOVERED READ | 1AJ | 8978 | | | |
| * | ERROR ENCOUNTERED ON LOAD. | 1AJ | 8979 | | | |
| * | | 1AJ | 8980 | | | |
| * | * OVERLAY LOST.* = OVERLAY NOT FOUND ON *CLD*. | 1AJ | 8981 | | | |

| | | | | | | |
|------|----------------------------------|--|--|--|-----|------|
| **** | DIRECT LOCATION ASSIGNMENTS. | | | | 1AJ | 8983 |
| | | | | | 1AJ | 8984 |
| | | | | | 1AJ | 8985 |
| | 16 WC EQU T8 SECTOR WORD COUNT | | | | 1AJ | 8986 |
| | 65 PF EQU /TCS/PF PROGRAM FORMAT | | | | 1AJ | 8987 |
| **** | | | | | 1AJ | 8988 |

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** LCR - ENTRY/EXIT.
*
* CALLS PRS.

1AJ 8992
1AJ 8993
1AJ 8994
1AJ 8995
1AJ 8996
1AJ 8997
1AJ 8998
1AJ 8999
1AJ 9000

| | | | | | | |
|------|------|------|-----|-------|------|------------------|
| 4550 | | | ORG | OVL+5 | | |
| 4550 | 0100 | 4550 | LCR | SUBR | | ENTRY/EXIT |
| 4552 | 0200 | 7247 | | RJM | PRS | PRESET OVERLAY |
| 4554 | 0373 | | | UJN | LCRX | RETURN FROM LOAD |

** LCP - LOAD CENTRAL PROGRAM.

1AJ 9002
1AJ 9003
NS22000 231
1AJ 9005
1AJ 9006
1AJ 9007
1AJ 9008
1AJ 9009
242L642 449
1AJ 9010
1AJ 9011
1AJ 9012
242L642 450
1AJ 9013
1AJ 9014
1AJ 9015
1AJ 9016
1AJ 9017
1AJ 9018
1AJ 9019

* ENTRY (T5) = ALTERNATE DEVICE EST ORDINAL.
* (T1) = CM WORD COUNT OF SECTOR IN *BFMS*.
* (FA) = FNT ADDRESS IF LOCAL FILE LOAD.
* (FA) = 0 IF LOAD FROM SYSTEM.
* (CW - CW+4) LIBRARY CONTROL WORD.
* (FS - FS+4) FST ENTRY IN FILE LOAD.
* (/3AE/MSRA) = 1 IF JOB ADVANCE NOT SET.
* EXIT (A) = ADDRESS OF ERROR MESSAGE.
* (PF) = PROGRAM FORMAT.
* TO *MSR*, IF MASS STORAGE ERROR.
* USES T1, T5 - T7, CM - CM+4.
* CALLS CDP, CSA, CCM, CPF.
*
* MACROS ENDMS, SETMS.

| | | | | | | |
|------|------|------|------|-------|------|-----------------------------------|
| 4555 | 0100 | 4555 | LCP | SUBR | | ENTRY/EXIT |
| 4557 | 3057 | | | LDD | FA | CHECK FNT ADDRESS |
| 4560 | 0403 | | | ZJN | LCP1 | IF NOT FILE LOAD |
| 4561 | 0100 | 4640 | | LJM | CMS | COPY MS RESIDENT PROGRAM |
| 4563 | 3061 | | LCP1 | LDD | CW+1 | CHECK LIBRARY RESIDENCE |
| 4564 | 2200 | 6000 | | LPC | 6000 | |
| 4566 | 0407 | | | ZJN | LCP2 | IF RESIDENT ON SYSTEM DEVICE ONLY |
| 4567 | 0200 | 7020 | | RJM | CSA | |
| 4571 | 0404 | | | ZJN | LCP2 | IF SYSEDT ACTIVE |
| 4572 | 0200 | 7060 | | RJM | CCM | CHECK PROGRAM RESIDENCE |
| 4574 | 0516 | | | NJN | LCP3 | IF ON ALTERNATE SYSTEM |
| 4575 | 1473 | | LCP2 | LDN | FNTP | GET SYSTEM DEVICE FROM SYSTEM FST |
| 4576 | 6010 | | | CRD | CM | |
| 4577 | 3010 | | | LDD | CM | |
| 4600 | 1014 | | | SHN | 14 | |
| 4601 | 3111 | | | ADD | CM+1 | |
| | | 0 | | ERRNZ | SYFO | (SYSTEM FILE ORDINAL NONZERO.) |
| 4602 | 1601 | | | ADN | FSTG | |
| 4603 | 6010 | | | CRD | CM | |
| 4604 | 3010 | | | LDD | CM | |
| 4605 | 2200 | 0777 | | LPC | 777 | |
| 4607 | 3405 | | | STD | T5 | |

1AJ 9020
1AJ 9021
1AJ 9022
1AJ 9023
1AJ 9024
1AJ 9025
1AJ 9026
1AJ 9027
1AJ 9028
1AJ 9029
1AJ 9030
1AJ 9031
1AJ 9033
1AJ 9034
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1AJ 9036
1AJ 9037
1AJ 9038
1AJ 9039
1AJ 9040
1AJ 9041
1AJ 9042
1AJ 9043
1AJ 9044

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|--|-----------|-------|-------|-----------|--------------------------------|---------|---------|------|
| 4610 | 0200 6274 | | RJM | CDP | CHECK DEVICE PARAMETERS | 1AJ | 9045 | |
| 4612 | 3063 | LCP3 | LDD | CW+3 | SET TRACK | 1AJ | 9046 | |
| 4613 | 3406 | | STD | T6 | | 1AJ | 9047 | |
| 4614 | 3064 | | LDD | CW+4 | SET SECTOR | 1AJ | 9048 | |
| 4615 | 3407 | | STD | T7 | | 1AJ | 9049 | |
| 4616 | 1403 | | SETMS | READSYS | | 242L642 | 451 | |
| 4621 | 0200 6347 | LCP4 | RJM | CPF | CHECK PROGRAM FORMAT | 1AJ | 9051 | |
| 4623 | 0415 | | ZJN | CMS | IF LOADABLE FORMAT | 1AJ | 9052 | |
| 4624 | 3401 | LCP5 | STD | T1 | | 1AJ | 9053 | |
| 4625 | 0200 0535 | | ENDMS | | | 1AJ | 9054 | |
| 4627 | 3001 | | LDD | T1 | | 1AJ | 9055 | |
| 4630 | 0100 4555 | | JMP | LCPX | RETURN | 1AJ | 9056 | |
| ** CMS - COPY MS RESIDENT PROGRAM. | | | | | | | 1AJ | 9058 |
| * ENTRY (T4 - T7) = MS PARAMETERS. | | | | | | | 1AJ | 9059 |
| * (T1) = CM WORD COUNT OF SECTOR IN *BFMS*. | | | | | | | 1AJ | 9060 |
| * (T3) = ADDRESS-2 OF PROGRAM HEADER IN *BFMS*. | | | | | | | 1AJ | 9061 |
| * (CN - CN+1) = LOAD ADDRESS, IF NONE SPECIFIED BY USER. | | | | | | | 1AJ | 9062 |
| * (FA) = ADDRESS OF FST ENTRY. | | | | | | | 1AJ | 9063 |
| * (FS - FS+4) = FST ENTRY. | | | | | | | 1AJ | 9064 |
| * (PF) = PROGRAM FORMAT. | | | | | | | 1AJ | 9065 |
| * FIRST SECTOR READ AND *CPF* CALLED. | | | | | | | 1AJ | 9066 |
| * EXIT TO *LCP5* IF LOAD ERROR WITH - | | | | | | | 1AJ | 9067 |
| * (A) = ERROR MESSAGE ADDRESS. | | | | | | | 1AJ | 9068 |
| * TO *SLP* AFTER LOAD WITH - | | | | | | | 1AJ | 9069 |
| * (AB+3 - AB+4) = FWA OF PROGRAM. | | | | | | | 1AJ | 9070 |
| * (CN+3 - CN+4) = LWA+1 OF PROGRAM. | | | | | | | 1AJ | 9071 |
| * TO *MSR*, IF MASS STORAGE ERROR. | | | | | | | 242L642 | 452 |
| * USES AB+3 - AB+4, CN+3 - CN+4, FS+2 - FS+4. | | | | | | | 1AJ | 9072 |
| * CALLS CSF, DDT, MSR, RNS. | | | | | | | 1AJ | 9073 |
| * MACROS ENDMS, LDA, MONITOR, NFA. | | | | | | | 1AJ | 9074 |
| * INCORRECT LOAD ADDRESS ERROR. | | | | | | | 1AJ | 9075 |
| * FL T00 SHORT ERROR. | | | | | | | V23L617 | 774 |
| 4632 | 2000 2102 | CMS9 | LDC | /ERR/EM20 | * INCORRECT LOAD ADDRESS.* | 1AJ | 9076 | |
| 4634 | 0367 | | UJN | LCP5 | EXIT | V23L617 | 775 | |
| * FL T00 SHORT FOR PROGRAM.* | | | | | | | 1AJ | 9077 |
| * FL T00 SHORT FOR PROGRAM.* | | | | | | | 1AJ | 9078 |
| * FL T00 SHORT FOR PROGRAM.* | | | | | | | 1AJ | 9079 |
| 4635 | 2000 1512 | CMS10 | LDC | /ERR/EM02 | * FL T00 SHORT FOR PROGRAM.* | NS2031 | 285 | |
| 4637 | 0364 | | UJN | LCP5 | EXIT | 1AJ | 9080 | |
| * FL T00 SHORT FOR PROGRAM.* | | | | | | | 1AJ | 9081 |
| * FL T00 SHORT FOR PROGRAM.* | | | | | | | 1AJ | 9082 |
| 4640 | 2000 0000 | CMS | LDC | 0 | | 1AJ | 9083 | |
| | | CMSA | EQU | *-2 | | 1AJ | 9084 | |
| 4642 | 0504 | 4640 | NJN | CMS1 | IF USER SPECIFIED LOAD ADDRESS | 1AJ | 9085 | |
| 4643 | 3025 | | LDD | CN | SET LOAD ADDRESS | 1AJ | 9086 | |
| 4644 | 1014 | | SHN | 14 | | 1AJ | 9087 | |
| 4645 | 3326 | | LMD | CN+1 | | 1AJ | 9088 | |

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|------|------|------|------|-----|-----------|---------------------------------------|---------|------|
| 4646 | 1702 | | CMS1 | SBN | 2 | CHECK LOAD ADDRESS | 1AJ | 9098 |
| 4647 | 0762 | | | MJN | CMS9 | IF .LE. 1 | 1AJ | 9099 |
| 4650 | 1602 | | | ADN | 2 | | 1AJ | 9100 |
| 4651 | 3427 | | | STD | CN+2 | | 1AJ | 9101 |
| 4652 | 3431 | | | STD | CN+4 | | 1AJ | 9102 |
| 4653 | 1063 | | | SHN | -14 | | 1AJ | 9103 |
| 4654 | 3426 | | | STD | CN+1 | | 1AJ | 9104 |
| 4655 | 3430 | | | STD | CN+3 | | 1AJ | 9105 |
| | | | * | | | COPY PROGRAM FROM MASS STORAGE. | 1AJ | 9106 |
| | | | | | | | 1AJ | 9107 |
| | | | | | | | 1AJ | 9108 |
| 4656 | 0200 | 5500 | | RJM | CSF | CHECK SPECIAL FORMAT | 1AJ | 9109 |
| 4660 | 3003 | | CMS2 | LDD | T3 | SET WRITE ADDRESS | 1AJ | 9110 |
| 4661 | 1602 | | | ADN | 2 | | 1AJ | 9111 |
| 4662 | 5400 | 4702 | | STM | CMSC | | 1AJ | 9112 |
| 4664 | 3030 | | | LDD | CN+3 | CHECK WRITE LENGTH | 1AJ | 9113 |
| 4665 | 1014 | | | SHN | 14 | | 1AJ | 9114 |
| 4666 | 3131 | | | ADD | CN+4 | | 1AJ | 9115 |
| 4667 | 3101 | | | ADD | T1 | | 1AJ | 9116 |
| 4670 | 1701 | | | SBN | 1 | GENERATE LWA FROM LWA+1 | 1AJ | 9117 |
| 4671 | 1071 | | CMSB | SHN | -6 | NO LWA FOR LOAD SPECIFIED | 1AJ | 9118 |
| 4672 | 3256 | | | SBD | FL | | 1AJ | 9119 |
| | | | * | ADC | -(LWA+1) | (LWA FOR LOAD SPECIFIED) | 1AJ | 9120 |
| 4673 | 0641 | | | PJN | CMS10 | IF WRITE LENGTH .GT. FL | 1AJ | 9121 |
| 4674 | 3030 | | | LDA | CN+3 | STORE SECTOR | 1AJ | 9122 |
| 4701 | 6301 | 7000 | | CWM | BFMS+2,T1 | | 1AJ | 9123 |
| | | 4702 | CMSC | EQU | *-1 | | 1AJ | 9124 |
| 4703 | 3001 | | | LDD | T1 | ADVANCE ADDRESS | 1AJ | 9125 |
| 4704 | 3531 | | | RAD | CN+4 | | 1AJ | 9126 |
| 4705 | 1063 | | | SHN | -14 | | 1AJ | 9127 |
| 4706 | 3530 | | | RAD | CN+3 | | 1AJ | 9128 |
| 4707 | 5000 | 6777 | | LDM | BFMS+1 | CHECK SECTOR WORD COUNT | 1AJ | 9129 |
| 4711 | 1071 | | | SHN | -6 | | 1AJ | 9130 |
| 4712 | 0416 | | | ZJN | CMS3 | IF SHORT SECTOR | 1AJ | 9131 |
| 4713 | 1400 | | CMSD | LDN | 0 | CHECK EXTENDED MEMORY BUFFERED FLAG | V23L617 | 776 |
| | | | * | LDN | 2&3 | (DEVICE BUFFERED IN EXTENDED MEMORY) | V23L617 | 777 |
| 4714 | 0515 | | | NJN | CMS4 | IF DEVICE BUFFERED IN EXTENDED MEMORY | V23L617 | 778 |
| 4715 | 2000 | 6776 | | LDC | BFMS | READ NEXT SECTOR | 1AJ | 9135 |
| 4717 | 0200 | 6735 | | RJM | RNS | | 1AJ | 9136 |
| 4721 | 0733 | | | MJN | CMS5 | IF MASS STORAGE READ ERROR | 242L642 | 453 |
| 4722 | 0406 | | | ZJN | CMS3 | IF WORD COUNT = 0 | 1AJ | 9137 |
| 4723 | 1401 | | | LDN | IMLL | | 1AJ | 9138 |
| 4724 | 5500 | 5032 | | RAM | CMSF+4 | | 1AJ | 9139 |
| 4726 | 0100 | 4660 | | LJM | CMS2 | READ NEXT SECTOR | 1AJ | 9140 |
| | | | | | | | 1AJ | 9141 |
| 4730 | 0336 | | CMS3 | UJN | CMS7 | CONTINUE | 1AJ | 9142 |
| | | | | | | | 1AJ | 9143 |
| 4731 | 3077 | | CMS4 | LDD | MA | COPY CM ADDRESS | 1AJ | 9144 |
| 4732 | 6225 | | | CWD | CN | | 1AJ | 9145 |
| 4733 | 6010 | | | CRD | CM | | 1AJ | 9146 |
| 4734 | 2000 | 0000 | CMSE | LDC | ** | SET LWA OF LOAD | 1AJ | 9147 |
| | | | * | LDC | LWA | (LWA OF LOAD IF SPECIFIED) | 1AJ | 9148 |
| 4736 | 1014 | | | SHN | 14 | | 1AJ | 9149 |
| 4737 | 3412 | | | STD | CM+2 | | 1AJ | 9150 |
| 4740 | 1071 | | | SHN | -6 | | 1AJ | 9151 |
| 4741 | 1377 | | | SCN | 77 | | 1AJ | 9152 |
| 4742 | 3513 | | | RAD | CM+3 | | 1AJ | 9153 |

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|------|------|------|---|-------|-----------------|---------------------------------|---------|------|
| 4743 | 2003 | 7777 | | LDC | RDDS*10000+7777 | READ TO EOR | 1AJ | 9154 |
| 4745 | 0200 | 6532 | | RJM | DDT | | 1AJ | 9155 |
| 4747 | 0607 | | | PJN | CMS6 | IF NO ERROR OCCURED | 1AJ | 9156 |
| 4750 | 1001 | | | SHN | 21-20 | | 251L664 | 1 |
| 4751 | 0603 | | | PJN | CMS5 | IF NOT A LOAD ERROR | 1AJ | 9158 |
| 4752 | 0100 | 4635 | | LJM | CMS10 | ISSUE LOAD ERROR MESSAGE | 1AJ | 9159 |
| 4754 | 0100 | 5763 | | CMS5 | LJM | MSR | 242L642 | 454 |
| | | | | | | PROCESS READ ERROR | 1AJ | 9162 |
| 4756 | 3013 | | | CMS6 | LDD | CM+3 | 1AJ | 9163 |
| 4757 | 1277 | | | | LPN | 77 | 1AJ | 9164 |
| 4760 | 3430 | | | | STD | CN+3 | 1AJ | 9165 |
| 4761 | 3014 | | | | LDD | CM+4 | 1AJ | 9166 |
| 4762 | 3431 | | | | STD | CN+4 | 1AJ | 9167 |
| 4763 | 3004 | | | | LDD | T4 | NS21000 | 639 |
| 4764 | 5500 | 5032 | | RAM | CMSF+4 | | NS21000 | 640 |
| | | | 0 | ERRNZ | IMLL-1 | CODE DEPENDS ON VALUE | NS21000 | 641 |
| 4766 | 0200 | 0535 | | CMS7 | ENDMS | | 1AJ | 9168 |
| 4770 | 3027 | | | | LDD | CN+2 | 1AJ | 9169 |
| 4771 | 3436 | | | | STD | AB+4 | 1AJ | 9170 |
| 4772 | 3026 | | | | LDD | CN+1 | 1AJ | 9171 |
| 4773 | 3435 | | | | STD | AB+3 | 1AJ | 9172 |
| 4774 | 3057 | | | | LDD | FA | 1AJ | 9173 |
| 4775 | 0416 | | | | ZJN | CMS8 | 1AJ | 9174 |
| | | | | | | IF NOT FILE LOAD | | |
| 4776 | 3006 | | | | LDD | T6 | 1AJ | 9175 |
| 4777 | 3422 | | | | STD | FS+2 | 1AJ | 9176 |
| 5000 | 3007 | | | | LDD | T7 | 1AJ | 9177 |
| | | | | | | SET CURRENT SECTOR | | |
| 5001 | 3423 | | | | STD | FS+3 | 1AJ | 9178 |
| 5002 | 3024 | | | | LDD | FS+4 | 1AJ | 9179 |
| 5003 | 1377 | | | | SCN | 77 | 1AJ | 9180 |
| | | | | | | SET OPERATION COMPLETE | | |
| 5004 | 1105 | | | | LMN | 5 | 1AJ | 9181 |
| 5005 | 3424 | | | | STD | FS+4 | 1AJ | 9182 |
| 5006 | 3055 | | | | NFA | FA,R | 1AJ | 9183 |
| | | | | | | STORE FST ENTRY | | |
| 5011 | 1601 | | | | ADN | FSTL | 1AJ | 9184 |
| 5012 | 6220 | | | | CWD | FS | 1AJ | 9185 |
| | | | | | | | 1AJ | 9186 |
| | | | | * | | INCREMENT CHARGES FOR LOAD. | NS22000 | 232 |
| 5013 | 3077 | | | CMS8 | LDD | MA | 1AJ | 9188 |
| | | | | | | WRITE UADM PARAMETER TO MB | | |
| 5014 | 6370 | 5026 | | | CWM | CMSF,ON | 1AJ | 9189 |
| 5016 | 1401 | | | | LDN | 1 | 1AJ | 9190 |
| | | | | | | SET WORD COUNT AND NO DROP FLAG | | |
| 5017 | 3411 | | | | STD | CM+1 | 1AJ | 9191 |
| 5020 | 3412 | | | | STD | CM+2 | 1AJ | 9192 |
| 5021 | 2000 | 0114 | | | MONITOR | UADM | 1AJ | 9193 |
| 5025 | 0306 | | | | UJN | SLP | 1AJ | 9194 |
| | | | | | | SET LOAD PARAMETERS | | |
| 5026 | 0020 | | | CMSF | CON | AISS | 1AJ | 9195 |
| | | | | | | SUB FUNCTION | | |
| 5027 | 0053 | | | | CON | IOAW | 1AJ | 9196 |
| | | | | | | WORD TO UPDATE | | |
| 5030 | 5024 | | | | CON | 40D*100+20D | 1AJ | 9197 |
| | | | | | | FIELD TO UPDATE | | |
| 5031 | 0000 | | | | CON | 0 | 1AJ | 9198 |
| | | | | | | INCREMENT | | |
| 5032 | 0001 | | | | CON | IMLL | 1AJ | 9199 |
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| Line | Address | Label | Operation | Comments | Address | Page |
|------|---------|-----------|--|--------------------------------------|-------------|------|
| | | ** | SLP - SET LOAD PARAMETERS. | | 1AJ 9204 | |
| | | * | | | 1AJ 9205 | |
| | | * | ENTRY AT *SLP* FROM ROUTINES *CMS* AND *CCM*. | | 1AJ 9206 | |
| | | * | (PF) = PROGRAM FORMAT. | | 1AJ 9207 | |
| | | * | (AB+3 - AB+4) = FWA PROGRAM. | | 1AJ 9208 | |
| | | * | (CN+3 - CN+4) = LWA+1 OF PROGRAM. | | 1AJ 9209 | |
| | | * | | | 1AJ 9210 | |
| | | * | EXIT (CM+3 - CM+4) = ENTRY ADDRESS. | | 1AJ 9211 | |
| | | * | (AB+3 - AB+4) = FWA OF PROGRAM. | | 1AJ 9212 | |
| | | * | */TCS/BCPI* SET WITH PARAMETERS FOR *CSTM* | | 1AJ 9213 | |
| | | * | MONITOR CALL. | | 1AJ 9214 | |
| | | * | | | 1AJ 9215 | |
| | | * | USES CM - CM+4, AB - AB+2, CN - CN+4, CW - CW+4. | | 1AJ 9216 | |
| | | * | | | 1AJ 9217 | |
| | | * | CALLS REP. | | 1AJ 9218 | |
| | | | | | 1AJ 9219 | |
| | | | | | 1AJ 9220 | |
| 15 | 5033 | 3035 | SLP LDA AB+3,M | READ ENTRY POINTS | 1AJ 9221 | |
| 16 | 5041 | 2100 0000 | ADC 0 | TABLE OFFSET FOR *5400* TABLE | 1AJ 9222 | |
| 17 | | 5042 | SLPA EQU *-1 | | 1AJ 9223 | |
| 18 | | | * ADC 7 | (*5400* TABLE AND 00,00 OVERLAY) | 1AJ 9224 | |
| 19 | | | * ADC 4 | (*5400* TABLE AND NOT 00,00 OVERLAY) | 1AJ 9225 | |
| 20 | 5043 | 6171 6776 | CRM BFMS,HN | | 1AJ 9226 | |
| 21 | 5045 | 2000 0113 | LDK MABL | CHECK MAINFRAME TYPE | NS21000 642 | |
| 22 | 5047 | 6010 | CRD CM | | NS21000 643 | |
| 23 | 5050 | 3011 | LDD CM+1 | | NS21000 644 | |
| 24 | 5051 | 1006 | SHN 21-13 | | NS21000 645 | |
| 25 | 5052 | 0621 | PJN SLP1 | IF CYBER 170-8X5 TYPE MAINFRAME | NS21000 646 | |
| 26 | 5053 | 3074 | LDD CP | CHECK JOB STATUS | NS2488A 1 | |
| 27 | 5054 | 1620 | ADN STSW | | NS2488A 2 | |
| 28 | 5055 | 6010 | CRD CM | | NS2488A 3 | |
| 29 | 5056 | 3010 | LDD CM | | NS2488A 4 | |
| 30 | 5057 | 1066 | SHN -11 | | NS2488A 5 | |
| 31 | 5060 | 1106 | LMN ICPS | | NS2488A 6 | |
| 32 | 5061 | 0512 | NJN SLP1 | IF JOB NOT IN *I* STATUS | NS2488A 7 | |
| 33 | 5062 | 3074 | LDD CP | CLEAR EXIT MODE FLAGS FROM XP | NS21000 647 | |
| 34 | 5063 | 1603 | ADN 3 | | 1AJ 9233 | |
| 35 | 5064 | 6010 | CRD CM | | 1AJ 9234 | |
| 36 | 5065 | 3010 | LDD CM | | 1AJ 9235 | |
| 37 | 5066 | 1330 | SCN 30 | CLEAR ERROR EXIT STATUS BITS | 1AJ 9236 | |
| 38 | 5067 | 3410 | STD CM | | 1AJ 9237 | |
| 39 | 5070 | 3074 | LDD CP | | 1AJ 9238 | |
| 40 | 5071 | 1603 | ADN 3 | | 1AJ 9239 | |
| 41 | 5072 | 6210 | CWD CM | | 1AJ 9240 | |
| 42 | 5073 | | SLP1 BSS 0 | | 1AJ 9241 | |
| 43 | 5073 | 1400 | SLPB LDN 0 | CHECK LDR CALL | NS2488 16 | |
| 44 | | | * LDN 1 | (LDR CALL) | NS2488 17 | |
| 45 | 5074 | 0534 | NJN SLP2 | IF LDR CALL | 1AJ 9244 | |
| 46 | 5075 | 3030 | LDD CN+3 | SET FWA OF CLEAR MEMORY FUNCTION | 1AJ 9245 | |
| 47 | 5076 | 5400 2240 | STM /TCS/BCPI+3 | | 1AJ 9246 | |
| 48 | 5100 | 3031 | LDD CN+4 | | 1AJ 9247 | |
| 49 | 5101 | 5400 2241 | STM /TCS/BCPI+4 | | 1AJ 9248 | |
| 50 | 5103 | 3056 | LDD FL | COMPUTE WORD COUNT OF CLEAR | 1AJ 9249 | |
| 51 | 5104 | 1006 | SHN 6 | | 1AJ 9250 | |
| 52 | 5105 | 3231 | SBD CN+4 | | 1AJ 9251 | |
| 53 | 5106 | 1006 | SHN 6 | | 1AJ 9252 | |
| 54 | 5107 | 3230 | SBD CN+3 | | 1AJ 9253 | |

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| 5110 | 1014 | | | SHN | 14 | | 1AJ | 9254 |
| 5111 | 5400 | 2237 | | STM | /TCS/BCPI+2 | | 1AJ | 9255 |
| 5113 | 1063 | | | SHN | -14 | | 1AJ | 9256 |
| 5114 | 5400 | 2236 | | STM | /TCS/BCPI+1 | | 1AJ | 9257 |
| 5116 | 3035 | | | LDD | AB+3 | SET CLEAR OF AREA FROM 100B TO FWA | 1AJ | 9258 |
| 5117 | 1014 | | | SHN | 14 | | 1AJ | 9259 |
| 5120 | 3136 | | | ADD | AB+4 | | 1AJ | 9260 |
| 5121 | 3271 | | | SBD | HN | | 1AJ | 9261 |
| 5122 | 0706 | | | MJN | SLP2 | IF LOADED BEFORE 100B | 1AJ | 9262 |
| 5123 | 5400 | 2244 | | STM | /TCS/BCPI+5+2 | | 1AJ | 9263 |
| 5125 | 1063 | | | SHN | -14 | | 1AJ | 9264 |
| 5126 | 5400 | 2243 | | STM | /TCS/BCPI+5+1 | | 1AJ | 9265 |
| 5130 | 5000 | 6503 | SLP2 | LDM | CL | | 1AJ | 9266 |
| 5132 | 0503 | | | NJN | SLP3 | IF ENTRY POINT SPECIFIED | 1AJ | 9267 |
| 5133 | 5600 | 5366 | | AOM | SLPH | DO NOT SEARCH ENTRY POINTS | 1AJ | 9268 |
| 5135 | 3055 | | SLP3 | LDD | RA | MERGE *CYBER LOADER* FIELDS | NS21000 | 648 |
| 5136 | 1006 | | | SHN | 6 | | 1AJ | 9272 |
| 5137 | 1666 | | | ADN | FWPR | | 1AJ | 9273 |
| 5140 | 6060 | | | CRD | CW | | 1AJ | 9274 |
| 5141 | 3060 | | | LDD | CW | | 1AJ | 9279 |
| 5142 | 2200 | 3777 | | LPC | 3777 | | 1AJ | 9280 |
| 5144 | 2100 | 4000 | | ADC | 4000 | SET CEJ/MEJ ENABLED FLAG IN (FWPR) | NS21000 | 649 |
| 5146 | 3432 | | | STD | AB | | NS21000 | 650 |
| 5147 | 3061 | | | LDD | CW+1 | | 1AJ | 9282 |
| 5150 | 3433 | | | STD | AB+1 | | 1AJ | 9283 |
| 5151 | 1400 | | | LDN | 0 | SET LOAD ORIGIN TYPE | 1AJ | 9284 |
| | | 5151 | LDOT | EQU | *-1 | (PRS) | 1AJ | 9285 |
| 5152 | 3434 | | | STD | AB+2 | | 1AJ | 9286 |
| 5153 | 3055 | | | LDD | RA | MERGE *CYBER LOADER* FIELDS | 1AJ | 9287 |
| 5154 | 1006 | | | SHN | 6 | | 1AJ | 9288 |
| 5155 | 1665 | | | ADN | LWPR | | 1AJ | 9289 |
| 5156 | 6060 | | | CRD | CW | | 1AJ | 9290 |
| 5157 | 2000 | 0113 | | LDK | MABL | GET HARDWARE OPTIONS | NS21000 | 651 |
| 5161 | 6010 | | | CRD | CM | | NS21000 | 652 |
| 5162 | 3011 | | | LDD | CM+1 | SET CMU BIT IN (LWPR) | NS21000 | 653 |
| 5163 | 1210 | | | LPN | 10 | | 1AJ | 9292 |
| 5164 | 1110 | | | LMN | 10 | | NS21000 | 654 |
| 5165 | 1010 | | | SHN | 10 | | 1AJ | 9293 |
| 5166 | 3425 | | | STD | CN | | 1AJ | 9294 |
| 5167 | 1444 | | | LDN | IPRL | SET CHARACTER SET MODE | 1AJ | 9295 |
| 5170 | 6010 | | | CRD | CM | | 1AJ | 9296 |
| 5171 | 3012 | | | LDD | CM+2 | | 1AJ | 9297 |
| 5172 | 1201 | | | LPN | 1 | | 1AJ | 9298 |
| 5173 | 1013 | | | SHN | 21-6 | POSITION CHARACTER SET MODE FLAG | 1AJ | 9299 |
| 5174 | 3410 | | | STD | CM | | 1AJ | 9300 |
| 5175 | 1400 | | | LDN | 0 | | 1AJ | 9301 |
| 5176 | 3427 | | | STD | CN+2 | | 1AJ | 9302 |
| 5177 | 3060 | | | LDD | CW | | 1AJ | 9303 |
| 5200 | 2200 | 3777 | | LPC | 3777 | | 1AJ | 9304 |
| 5202 | 3525 | | | RAD | CN | | 1AJ | 9305 |
| 5203 | 3061 | | | LDD | CW+1 | | 1AJ | 9306 |
| 5204 | 3426 | | | STD | CN+1 | | 1AJ | 9307 |
| 5205 | 1466 | | | LDN | ZERL | | 1AJ | 9308 |
| 5206 | 6011 | | | CRD | CM+1 | | 1AJ | 9309 |
| 5207 | 2000 | 0000 | | LDC | 0 | | 1AJ | 9313 |
| | | 5210 | SLPC | EQU | *-1 | | 1AJ | 9314 |
| 5211 | 1703 | | | SBN | 3 | | 1AJ | 9315 |

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|------|-----------|------|------|-----------|----------------------------------|-----|------|
| 5212 | 0526 | | NJN | SLP5 | IF NO *ACPM* CONTROL INFORMATION | 1AJ | 9316 |
| 5213 | 3731 | | SOD | CN+4 | | 1AJ | 9317 |
| 5214 | 0603 | | PJN | SLP4 | IF NO UNDERFLOW | 1AJ | 9318 |
| 5215 | 3730 | | SOD | CN+3 | | 1AJ | 9319 |
| 5216 | 3631 | | AOD | CN+4 | | 1AJ | 9320 |
| 5217 | 3030 | SLP4 | LDA | CN+3 | | 1AJ | 9321 |
| 5224 | 6060 | | CRD | CW | READ CONTROL WORD | 1AJ | 9322 |
| 5225 | 3063 | | LDD | CW+3 | | 1AJ | 9323 |
| 5226 | 1377 | | SCN | 77 | | 1AJ | 9324 |
| 5227 | 3162 | | ADD | CW+2 | | 1AJ | 9325 |
| 5230 | 0410 | | ZJN | SLP5 | IF *ENDS* FIELD NULL | 1AJ | 9326 |
| 5231 | 3035 | | LDA | AB+3 | | 1AJ | 9327 |
| 5236 | 6260 | | CWD | CW | | 1AJ | 9328 |
| 5237 | 0320 | | UJN | SLP6 | SKIP 54 TABLE PROCESSING | 1AJ | 9329 |
| | | | | | | 1AJ | 9330 |
| 5240 | 1701 | SLP5 | SBN | 1 | | 1AJ | 9331 |
| 5241 | 0516 | | NJN | SLP6 | IF NOT 54 TABLE | 1AJ | 9332 |
| 5242 | 3035 | | LDA | AB+3,M | READ MINFL WORD | 1AJ | 9333 |
| 5250 | 1601 | | ADN | 1 | | 1AJ | 9334 |
| 5251 | 6000 | | CRD | T0 | | 1AJ | 9335 |
| 5252 | 3003 | | LDD | T0+3 | | 1AJ | 9336 |
| 5253 | 1277 | | LPN | 77 | | 1AJ | 9337 |
| 5254 | 3430 | | STD | CN+3 | | 1AJ | 9338 |
| 5255 | 3004 | | LDD | T0+4 | | 1AJ | 9339 |
| 5256 | 3431 | | STD | CN+4 | | 1AJ | 9340 |
| 5257 | 3030 | SLP6 | LDD | CN+3 | | 1AJ | 9341 |
| 5260 | 3371 | SLPD | LMD | HN | SET LIBRARY LOAD FLAG | 1AJ | 9342 |
| | | * | PSN | | (IF LOCAL FILE LOAD) | 1AJ | 9343 |
| 5261 | 3430 | | STD | CN+3 | SET LOAD ORIGIN | 1AJ | 9344 |
| 5262 | 2000 0000 | | LDC | 0 | SET RSS AND DIS BITS | 1AJ | 9345 |
| | | 5263 | SLPE | EQU | *-1 | 1AJ | 9346 |
| 5264 | 3535 | | RAD | AB+3 | | 1AJ | 9347 |
| 5265 | 3055 | | LDD | RA | | 1AJ | 9348 |
| 5266 | 1006 | | SHN | 6 | | 1AJ | 9349 |
| 5267 | 1665 | | ADN | LWPR | | 1AJ | 9350 |
| 5270 | 6225 | | CWD | CN | STORE LWA OF PROGRAM | 1AJ | 9351 |
| 5271 | 1601 | | ADN | FWPR-LWPR | | 1AJ | 9352 |
| 5272 | 6232 | | CWD | AB | STORE FWA OF PROGRAM | 1AJ | 9353 |
| 5273 | 1601 | | ADN | LDRR-FWPR | | 1AJ | 9354 |
| 5274 | 6210 | | CWD | CM | STORE LDR STATUS | 1AJ | 9355 |
| 5275 | 1400 | SLPF | LDN | 0 | | 1AJ | 9356 |
| | | * | LDN | 1 | (*CLB=* PRESENT) | 1AJ | 9357 |
| 5276 | 0503 | | NJN | SLP7 | IF *CLB=* PRESENT | 1AJ | 9358 |
| 5277 | 0100 5360 | | LJM | SLP11 | SKIP *CLB=* PROCESSING | 1AJ | 9359 |
| | | | | | | 1AJ | 9360 |
| 5301 | 1400 | SLP7 | LDN | 0 | | 1AJ | 9361 |
| 5302 | 3460 | | STD | CW | | 1AJ | 9362 |
| 5303 | 0200 5426 | SLP8 | RJM | REP | READ ENTRY POINT | 1AJ | 9363 |
| 5305 | 6025 | | CRD | CN | | 1AJ | 9364 |
| 5306 | 3025 | | LDD | CN | | 1AJ | 9365 |
| 5307 | 2300 0314 | | LMC | 2RCL | | 1AJ | 9366 |
| 5311 | 0511 | | NJN | SLP9 | IF NOT *CLB=* | 1AJ | 9367 |
| 5312 | 3026 | | LDD | CN+1 | | 1AJ | 9368 |
| 5313 | 2300 0254 | | LMC | 2RB= | | 1AJ | 9369 |
| 5315 | 0505 | | NJN | SLP9 | IF NOT *CLB=* | 1AJ | 9370 |
| 5316 | 3030 | | LDD | CN+3 | | 1AJ | 9371 |
| 5317 | 1377 | | SCN | 77 | | 1AJ | 9372 |

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| 5320 | 3127 | | | ADD | CN+2 | | | 1AJ | 9373 |
| 5321 | 0415 | | | ZJN | SLP10 | IF *CLB=* FOUND | | 1AJ | 9374 |
| 5322 | 3660 | | | AOD | CW | | | 1AJ | 9375 |
| 5323 | 2300 | 5323 | | LMC | * | | | 1AJ | 9376 |
| | | | 5324 | SLPG | EQU | *-1 | | 1AJ | 9377 |
| 5325 | 0555 | | | NJN | SLP8 | IF SEARCH INCOMPLETE | | 1AJ | 9378 |
| 5326 | 5000 | 1254 | | LDM | /TCS/CSEB | | | 1AJ | 9379 |
| 5330 | 2200 | 7677 | | LPC | 7677 | | | 1AJ | 9380 |
| 5332 | 5400 | 1254 | | STM | /TCS/CSEB | | | 1AJ | 9381 |
| 5334 | 0100 | 5411 | | LJM | SLP13 | RETURN | | 1AJ | 9382 |
| | | | | | | | | 1AJ | 9383 |
| 5336 | 3074 | | | SLP10 | LDD | CP | SAVE *CLB=* FET RELATIVE ADDRESS IN *TINW* | 1AJ | 9384 |
| 5337 | 1671 | | | ADN | TINW | | | 1AJ | 9385 |
| 5340 | 6010 | | | CRD | CM | | | 1AJ | 9386 |
| 5341 | 3013 | | | LDD | CM+3 | | | 1AJ | 9387 |
| 5342 | 1277 | | | LPN | 77 | | | 1AJ | 9388 |
| 5343 | 1014 | | | SHN | 14 | | | 1AJ | 9389 |
| 5344 | 3131 | | | ADD | CN+4 | | | 1AJ | 9390 |
| 5345 | 1006 | | | SHN | 6 | | | 1AJ | 9391 |
| 5346 | 3413 | | | STD | CM+3 | | | 1AJ | 9392 |
| 5347 | 3031 | | | LDD | CN+4 | | | 1AJ | 9393 |
| 5350 | 1377 | | | SCN | 77 | | | 1AJ | 9394 |
| 5351 | 1006 | | | SHN | 6 | | | 1AJ | 9395 |
| 5352 | 3130 | | | ADD | CN+3 | | | 1AJ | 9396 |
| 5353 | 1006 | | | SHN | 6 | | | 1AJ | 9397 |
| 5354 | 3412 | | | STD | CM+2 | | | 1AJ | 9398 |
| 5355 | 3074 | | | LDD | CP | | | 1AJ | 9399 |
| 5356 | 1671 | | | ADN | TINW | | | 1AJ | 9400 |
| 5357 | 6210 | | | CWD | CM | | | 1AJ | 9401 |
| | | | | | | | | 1AJ | 9402 |
| | | | | * | SET ENTRY ADDRESS | | | 1AJ | 9403 |
| | | | | | | | | 1AJ | 9404 |
| 5360 | 1400 | | | SLP11 | LDN | 0 | | 1AJ | 9405 |
| 5361 | 3460 | | | STD | CW | | | 1AJ | 9406 |
| 5362 | 0200 | 5426 | | SLP12 | RJM | REP | READ ENTRY POINT | 1AJ | 9407 |
| 5364 | 6010 | | | CRD | CM | | READ ENTRY POINT FROM CM | 1AJ | 9408 |
| 5365 | 2000 | 0000 | | LDC | 0 | | | 1AJ | 9409 |
| | | | 5366 | SLPH | EQU | *-1 | SEARCH ENTRY POINTS FLAG | 1AJ | 9410 |
| 5367 | 0522 | | | NJN | SLP13 | IF NOT SEARCHING TABLE | | 1AJ | 9411 |
| 5370 | 5000 | 6503 | | LDM | CL | | | 1AJ | 9412 |
| 5372 | 3210 | | | SBD | CM | | | 1AJ | 9413 |
| 5373 | 0520 | | | NJN | SLP14 | IF NOT A MATCH | | 1AJ | 9414 |
| 5374 | 5000 | 6504 | | LDM | CL+1 | | | 1AJ | 9415 |
| 5376 | 3211 | | | SBD | CM+1 | | | 1AJ | 9416 |
| 5377 | 0514 | | | NJN | SLP14 | IF NOT A MATCH | | 1AJ | 9417 |
| 5400 | 5000 | 6505 | | LDM | CL+2 | | | 1AJ | 9418 |
| 5402 | 3212 | | | SBD | CM+2 | | | 1AJ | 9419 |
| 5403 | 0510 | | | NJN | SLP14 | IF NOT A MATCH | | 1AJ | 9420 |
| 5404 | 3013 | | | LDD | CM+3 | | | 1AJ | 9421 |
| 5405 | 1377 | | | SCN | 77 | | | 1AJ | 9422 |
| 5406 | 5200 | 6506 | | SBM | CL+3 | | | 1AJ | 9423 |
| 5410 | 0503 | | | NJN | SLP14 | IF NOT A MATCH | | 1AJ | 9424 |
| 5411 | 1400 | | | SLP13 | LDN | 0 | | 1AJ | 9425 |
| 5412 | 0311 | | | UJN | SLP16 | RETURN | | 1AJ100 | 1 |
| | | | | | | | | 1AJ | 9427 |
| 5413 | 3660 | | | SLP14 | AOD | CW | | 1AJ | 9428 |
| 5414 | 5300 | 5324 | | LMM | SLPG | NUMBER OF ENTRY POINTS | | 1AJ | 9429 |

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|------|-----------|------|-------|-------------------------------------|-------------------------------------|--------|------|
| 5416 | 0403 | | ZJN | SLP15 | IF DONE WITH SEARCH | 1AJ | 9430 |
| 5417 | 0100 5362 | | LJM | SLP12 | CONTINUE PROCESSING | 1AJ | 9431 |
| 5421 | 2000 1707 | | SLP15 | LDC /ERR/EM12 | * LDR - ENTRY POINT NOT FOUND.* | NS2031 | 286 |
| 5423 | 0100 4555 | | SLP16 | LJM LCPX | RETURN | 1AJ100 | 2 |
| | | | ** | REP - READ ENTRY POINT. | | 1AJ | 9436 |
| | | | * | | | 1AJ | 9437 |
| | | | * | ENTRY (CW) = CURRENT ENTRY POINTER. | | 1AJ | 9438 |
| | | | * | (PF) = PROGRAM FORMAT. | | 1AJ | 9439 |
| | | | * | (AB+3 - AB+4) = FWA OF PROGRAM. | | 1AJ | 9440 |
| | | | * | | | 1AJ | 9441 |
| | | | * | EXIT (A) = ADDRESS OF ENTRY POINT. | | 1AJ | 9442 |
| | | | * | | | 1AJ | 9443 |
| | | | * | USES T1. | | 1AJ | 9444 |
| | | | | | | 1AJ | 9445 |
| | | | | | | 1AJ | 9446 |
| 5425 | 0100 5425 | | REP | SUBR | ENTRY/EXIT | 1AJ | 9447 |
| 5427 | 3065 | | | LDD PF | MULTIPLY TABLE OFFSETS BY 5 | 1AJ | 9448 |
| 5430 | 1701 | | | SBN 1 | | 1AJ | 9449 |
| 5431 | 3160 | | | ADD CW | | 1AJ | 9450 |
| 5432 | 3401 | | | STD T1 | | 1AJ | 9451 |
| 5433 | 1002 | | | SHN 2 | | 1AJ | 9452 |
| 5434 | 3101 | | | ADD T1 | | 1AJ | 9453 |
| 5435 | 2100 6776 | | | ADC BFMS | ENTRY POINT BUFFER | 1AJ | 9454 |
| 5437 | 5400 5443 | | | STM REPA | | 1AJ | 9455 |
| 5441 | 3077 | | | LDD MA | WRITE ENTRY POINT TO MESSAGE BUFFER | 1AJ | 9456 |
| 5442 | 6370 5442 | | | CWM *,ON | | 1AJ | 9457 |
| | | 5443 | REPA | EQU *-1 | | 1AJ | 9458 |
| 5444 | 1701 | | | SBN 1 | | 1AJ | 9459 |
| 5445 | 0357 | | | UJN REPX | RETURN | 1AJ | 9460 |

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|----|----|------|-----------|------|---|---------|-----|------|
| | ** | | | | CSF - CHECK SPECIAL FORMAT | | 1AJ | 9462 |
| | * | | | | CHECK FOR VALID *ACPM* FORMAT AND, IF VALID, COPY UPDATED | | 1AJ | 9463 |
| | * | | | | HEADER/ENTRY POINTS TO CM LOAD ADDRESS. | | 1AJ | 9464 |
| 1 | * | | | | | | 1AJ | 9465 |
| 2 | * | | | | ENTRY (T1) = WORD COUNT IN *BFMS*. | | 1AJ | 9466 |
| 3 | * | | | | (T3) = ADDRESS-2 OF PROGRAM HEADER IN *BFMS*. | | 1AJ | 9467 |
| 4 | * | | | | (CN+3 - CN+4) = CM LOAD ADDRESS. | | 1AJ | 9468 |
| 5 | * | | | | (AB+3 - AB+4) = *FWA* OF LOAD. | | 1AJ | 9469 |
| 6 | * | | | | | | 1AJ | 9470 |
| 7 | * | | | | EXIT TO *LCP3* IF UNIDENTIFIED PROGRAM FORMAT. | | 1AJ | 9471 |
| 8 | * | | | | IF VALID *ACPM* FORMAT - | | 1AJ | 9472 |
| 9 | * | | | | (T1) = WORD COUNT IN *BFMS*-HEADER LENGTH. | | 1AJ | 9473 |
| 10 | * | | | | (T3) = FWA OF CODE IN *BFMS*. | | 1AJ | 9474 |
| 11 | * | | | | (CN+3 - CN+4) = CM LOAD ADDRESS UPDATED. | | 1AJ | 9475 |
| 12 | * | | | | (CSFD - CSFD+1) = *FWA* FROM 53 TABLE. | | 1AJ | 9476 |
| 13 | * | | | | | | 1AJ | 9477 |
| 14 | * | | | | USES T1, T3, CM - CM+1, CN+3 - CN+4. | | 1AJ | 9478 |
| 15 | * | | | | | | 1AJ | 9479 |
| 16 | * | | | | CALLS CPH, LEC. | | 1AJ | 9480 |
| 17 | | | | | | | 1AJ | 9481 |
| 18 | | | | | | | 1AJ | 9482 |
| 19 | | 5446 | 2300 0700 | | CSF5 LMC 5400&5300 | | 1AJ | 9483 |
| 20 | | 5450 | 0527 | | NJN CSFX IF NOT A 54 TABLE | | 1AJ | 9484 |
| 21 | | 5451 | 2000 5451 | | LDC * COMPUTE TABLE LENGTH | | 1AJ | 9485 |
| 22 | | | | 5452 | CSFB EQU *-1 | | 1AJ | 9486 |
| 23 | | | | | * LDC 7 (54 TABLE AND 00,00 OVERLAY (ABS)) | | 1AJ | 9487 |
| 24 | | | | | * LDC 7+DL (00,00 OVERLAY WITH *FOL* DIRECTORY) | 1AJ92 | | 64 |
| 25 | | | | | * LDC 3 (54 TABLE AND NOT 00,00 OVERLAY (OVL)) | 1AJ | | 9488 |
| 26 | | 5453 | 1601 | | ADN 1 | 1AJ | | 9489 |
| 27 | | 5454 | 5103 0006 | | ADM 2+4,T3 ADD *K* FROM HEADER | 1AJ | | 9490 |
| 28 | | 5456 | 3402 | | STD T2 | 1AJ | | 9491 |
| 29 | | 5457 | 3003 | | LDD T3 SET ADDRESS OF *ECS* CONTROL WORD | 1AJ | | 9492 |
| 30 | | 5460 | 1614 | | ADN 2+12 | 1AJ | | 9493 |
| 31 | | 5461 | 5400 5465 | | STM CSFC | 1AJ | | 9494 |
| 32 | | 5463 | 3077 | | LDD MA MOVE *EXTENDED MEMORY* LOADER CONTROL WORD | V23L617 | | 779 |
| 33 | | 5464 | 6370 5464 | | CWM *,ON | 1AJ | | 9497 |
| 34 | | | | 5465 | CSFC EQU *-1 | 1AJ | | 9498 |
| 35 | | 5466 | 1701 | | SBN 1 | 1AJ | | 9499 |
| 36 | | 5467 | 6060 | | CRD CW | 1AJ | | 9500 |
| 37 | | 5470 | 0200 6435 | | RJM CPH COPY HEADER DATA | 1AJ75 | | 1 |
| 38 | | 5472 | 3063 | | LDD CW+3 CHECK FOR *EXTENDED MEMORY* LOAD REQUIRED | V23L617 | | 780 |
| 39 | | 5473 | 3164 | | ADD CW+4 | 1AJ | | 9502 |
| 40 | | 5474 | 0403 | | ZJN CSFX IF NO *EXTENDED MEMORY* LOAD DATA | V23L617 | | 781 |
| 41 | | 5475 | 0200 5620 | | RJM LEC LOAD *EXTENDED MEMORY* DATA | V23L617 | | 782 |
| 42 | | | | | | 1AJ | | 9505 |
| 43 | | 5477 | 0100 5477 | | CSF SUBR ENTRY/EXIT | 1AJ | | 9506 |
| 44 | | 5501 | 5003 0002 | | LDM 2,T3 CHECK TABLE TYPE | 1AJ | | 9507 |
| 45 | | 5503 | 2300 5300 | | LMC 5300 | 1AJ | | 9508 |
| 46 | | 5505 | 0540 | | NJN CSF5 IF NOT 53 TABLE | 1AJ75 | | 2 |
| 47 | | 5506 | 5003 0005 | | LDM 5,T3 CHECK 53 TABLE TYPE | 1AJ75 | | 3 |
| 48 | | 5510 | 1240 | | LPN 40 | 1AJ | | 9513 |
| 49 | | 5511 | 0405 | | ZJN CSF2 IF SINGLE ENTRY POINT (TYPE 1) | 1AJ | | 9514 |
| 50 | | 5512 | 5003 0006 | | LDM 6,T3 COMPLEMENT ENTRY COUNT | 1AJ | | 9515 |
| 51 | | 5514 | 2300 7777 | | LMC 7777 | 1AJ | | 9516 |
| 52 | | 5516 | 1601 | | CSF2 ADN 1 | 1AJ | | 9517 |
| 53 | | 5517 | 3402 | | STD T2 SET WORD COUNT FOR COPY | 1AJ | | 9518 |
| 54 | | 5520 | 5003 0004 | | LDM 4,T3 SAVE *FWA* FROM 53 TABLE | 1AJ | | 9529 |

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| 5522 | 5400 | 5615 | | STM | CSFD | | 1AJ | 9530 |
| 5524 | 5003 | 0005 | | LDM | 5,T3 | | 1AJ | 9531 |
| 5526 | 5400 | 5616 | | STM | CSFD+1 | | 1AJ | 9532 |
| 5530 | 0200 | 6435 | | RJM | CPH | COPY HEADER DATA | 1AJ | 9533 |
| 5532 | 3003 | | | LDD | T3 | MOVE *EM* LOADER CONTROL WORD | 1AJ75 | 4 |
| 5533 | 5400 | 5537 | | STM | CSFA | | 1AJ75 | 5 |
| 5535 | 3077 | | | LDD | MA | | 1AJ75 | 6 |
| 5536 | 6370 | 5536 | | CWM | *,ON | | 1AJ75 | 7 |
| | | | 5537 | EQU | *-1 | CSFA | 1AJ75 | 8 |
| 5540 | 1701 | | | SBN | 1 | | 1AJ75 | 9 |
| 5541 | 6060 | | | CRD | CW | | 1AJ75 | 10 |
| 5542 | 1405 | | | LDN | 5 | SKIP *EXTENDED MEMORY* CONTROL WORD | V23L617 | 784 |
| 5543 | 3503 | | | RAD | T3 | | 1AJ | 9535 |
| 5544 | 3701 | | | SOD | T1 | | 1AJ | 9536 |
| 5545 | 3063 | | | LDD | CW+3 | CHECK IF *EXTENDED MEMORY* LOAD REQUIRED | V23L617 | 785 |
| 5546 | 3164 | | | ADD | CW+4 | | 1AJ | 9538 |
| 5547 | 0403 | | | ZJN | CSF3 | IF NO *EXTENDED MEMORY* LOAD REQUIRED | V23L617 | 786 |
| 5550 | 0200 | 5620 | | RJM | LEC | LOAD *EXTENDED MEMORY* DATA | V23L617 | 787 |
| 5552 | 3035 | | CSF3 | LDA | AB+3,M | UPDATE HEADER WORD | 1AJ | 9541 |
| 5560 | 6010 | | | CRD | CM | | 1AJ | 9542 |
| 5561 | 5003 | 0005 | | LDM | 2+3,T3 | CHECK *ENDS* FIELD | 1AJ | 9543 |
| 5563 | 1377 | | | SCN | 77 | | 1AJ | 9544 |
| 5564 | 3402 | | | STD | T2 | | 1AJ | 9545 |
| 5565 | 1006 | | | SHN | 6 | | 1AJ | 9546 |
| 5566 | 5103 | 0004 | | ADM | 2+2,T3 | | 1AJ | 9547 |
| 5570 | 0415 | | | ZJN | CSF4 | IF EMPTY FIELD | 1AJ | 9548 |
| 5571 | 3412 | | | STD | CM+2 | REPLACE *FWAS* FIELD IN HEADER | 1AJ | 9549 |
| 5572 | 3013 | | | LDD | CM+3 | | 1AJ | 9550 |
| 5573 | 1277 | | | LPN | 77 | | 1AJ | 9551 |
| 5574 | 3302 | | | LMD | T2 | | 1AJ | 9552 |
| 5575 | 3413 | | | STD | CM+3 | | 1AJ | 9553 |
| 5576 | 3035 | | | LDA | AB+3,M | REWRITE HEADER WORD | 1AJ | 9554 |
| 5604 | 6210 | | | CWD | CM | | 1AJ | 9555 |
| 5605 | 1405 | | CSF4 | LDN | 5 | SKIP CONTROL WORD | 1AJ | 9556 |
| 5606 | 3503 | | | RAD | T3 | | 1AJ | 9557 |
| 5607 | 3701 | | | SOD | T1 | | 1AJ | 9558 |
| 5610 | 1400 | | | LDN | 0 | CLEAR CONTROL FLAG | 1AJ | 9559 |
| 5611 | 5400 | 5210 | | STM | SLPC | | 1AJ | 9560 |
| 5613 | 0100 | 5477 | | LJM | CSFX | RETURN | 1AJ | 9561 |
| | | | | | | | 1AJ | 9562 |
| | | | | | | | 1AJ | 9563 |
| 5615 | 0000 | 0000 | CSFD | CON | 0,0 | FWA FROM 53 TABLE | 1AJ | 9564 |

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| | ** | | | | LEC - LOAD *EXTENDED MEMORY* DATA BLOCK. | | V23L617 | 788 |
| | * | | | | | | 1AJ | 9567 |
| | * | | | | ENTRY (T1) = PP BUFFER WORD COUNT. | | 1AJ | 9568 |
| 1 | * | | | | (T3) = PP BUFFER ADDRESS-2. | | 1AJ | 9569 |
| 2 | * | | | | (T4 - T7) = DISK PARAMETERS. | | 1AJ | 9570 |
| 3 | * | | | | (CW - CW+4) = *EXTENDED MEMORY* LOAD CONTROL WORD. | | V23L617 | 789 |
| 4 | * | | | | | | 1AJ | 9572 |
| 5 | * | | | | EXIT TO *MSR* IF MASS STORAGE ERROR. | | 242L642 | 455 |
| 6 | * | | | | TO *LCPX* IF ANY OTHER ERROR. | | 242L642 | 456 |
| 7 | * | | | | (T1, T3, T6, T7) UPDATED. | | 1AJ | 9574 |
| 8 | * | | | | | | 1AJ | 9575 |
| 9 | * | | | | USES T1, T3, CM - CM+6, CW+3 - CW+4. | | 1AJ | 9576 |
| 10 | * | | | | | | 1AJ | 9577 |
| 11 | * | | | | CALLS RNS. | | 1AJ | 9578 |
| 12 | * | | | | | | 1AJ | 9579 |
| 13 | * | | | | MACROS ENDMS, MONITOR. | | 1AJ | 9580 |
| 14 | | | | | | | 1AJ | 9581 |
| 15 | | | | | | | 1AJ | 9582 |
| 16 | | 5617 | 0100 5617 | | LEC SUBR | ENTRY/EXIT | 1AJ | 9583 |
| 17 | | 5621 | 0310 | | UJN LEC2 | COPY DATA TO EXTENDED MEMORY | V23L617 | 790 |
| 18 | | | | | | | 1AJ | 9585 |
| 19 | | 5622 | 2000 6776 | | LEC1 LDC BFMS | READ NEXT SECTOR | 1AJ | 9586 |
| 20 | | 5624 | 0200 6735 | | RJM RNS | | 1AJ | 9587 |
| 21 | | 5626 | 0603 | | MJP MSR | IF DEVICE ERROR | 242L642 | 457 |
| 22 | | 5631 | 3001 | | LEC2 LDD T1 | SAVE WORD COUNT | 1AJ | 9588 |
| 23 | | 5632 | 3416 | | STD WC | | 1AJ | 9589 |
| 24 | | 5633 | 0200 0535 | | ENDMS | | 1AJ | 9590 |
| 25 | | 5635 | 3016 | | LDD WC | | NS2031 | 287 |
| 26 | | 5636 | 0503 | | ZJP LEC8 | IF SECTOR EMPTY | NS2031 | 288 |
| 27 | | 5641 | 3003 | | LDD T3 | SET BUFFER ADDRESS | 1AJ | 9591 |
| 28 | | 5642 | 1602 | | ADN 2 | | 1AJ | 9592 |
| 29 | | 5643 | 5400 5700 | | STM LECA | | 1AJ | 9593 |
| 30 | | 5645 | 3063 | | LDD CW+3 | CHECK *WCL* | 1AJ | 9594 |
| 31 | | 5646 | 0510 | | NJN LEC4 | IF FULL BUFFER LOAD | 1AJ | 9595 |
| 32 | | 5647 | 3164 | | ADD CW+4 | | 1AJ | 9596 |
| 33 | | 5650 | 0446 | | ZJN LECX | IF END OF LOAD | 1AJ | 9597 |
| 34 | | 5651 | 3216 | | SBD WC | | 1AJ | 9598 |
| 35 | | 5652 | 0604 | | PJN LEC4 | IF FULL BUFFER LOAD | 1AJ | 9599 |
| 36 | | 5653 | 3064 | | LDD CW+4 | SET REMAINDER OF LOAD | 1AJ | 9600 |
| 37 | | 5654 | 3416 | | LEC3 STD WC | | 1AJ | 9601 |
| 38 | | 5655 | 0444 | | ZJN LEC1 | IF END OF BUFFER | 1AJ | 9602 |
| 39 | | 5656 | 3016 | | LEC4 LDD WC | | 1AJ | 9603 |
| 40 | | 5657 | 1706 | | SBN 6 | | 1AJ | 9604 |
| 41 | | 5660 | 0702 | | MJN LEC5 | IF LESS THAN 6 WORDS IN BUFFER | 1AJ | 9605 |
| 42 | | 5661 | 1400 | | LDN 0 | | 1AJ | 9606 |
| 43 | | 5662 | 1606 | | LEC5 ADN 6 | | 1AJ | 9607 |
| 44 | | 5663 | 3402 | | STD T2 | | 1AJ | 9608 |
| 45 | | 5664 | 1701 | | SBN 1 | | 1AJ | 9609 |
| 46 | | 5665 | 1006 | | SHN 6 | | 1AJ | 9610 |
| 47 | | 5666 | 3411 | | STD CM+1 | | 1AJ | 9611 |
| 48 | | 5667 | 3062 | | LDD CW+2 | SET RELATIVE EXTENDED MEMORY ADDRESS | V23L617 | 791 |
| 49 | | 5670 | 3414 | | STD CM+4 | | 1AJ | 9613 |
| 50 | | 5671 | 3061 | | LDD CW+1 | | 1AJ | 9614 |
| 51 | | 5672 | 2300 1000 | | LMC WRES*1000 | WRITE RELATIVE EXTENDED MEMORY | V23L617 | 792 |
| 52 | | 5674 | 3413 | | STD CM+3 | | 1AJ | 9616 |
| 53 | | 5675 | 3077 | | LDD MA | | 1AJ | 9617 |
| 54 | | 5676 | 3412 | | STD CM+2 | SET CM ADDRESS | 1AJ | 9618 |

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| 5677 | 6302 | 5677 | | CWM | *,T2 | | 1AJ | 9619 |
| | | 5700 | LECA | EQU | *-1 | | 1AJ | 9620 |
| 5701 | 1434 | | | MONITOR | ECSM | COPY DATA TO EXTENDED MEMORY | V23L617 | 793 |
| 5704 | 3011 | | | LDD | CM+1 | | 1AJ | 9622 |
| 5705 | 0407 | | | ZJN | LEC6 | IF NO ERROR | 1AJ | 9623 |
| 5706 | 1101 | | | LMN | 1 | | 1AJ | 9624 |
| 5707 | 0505 | | | NJN | LEC6 | IF NOT OUT OF EXTENDED MEMORY FL | V23L617 | 794 |
| 5710 | 2000 | 2117 | | LDC | /ERR/EM21 | * FLE TOO SHORT FOR LOAD.* | NS2031 | 289 |
| 5712 | 0100 | 4555 | | JMP | LCPX | RETURN ERROR | 1AJ | 9627 |
| | | | | | | | 1AJ | 9628 |
| 5714 | 3002 | | LEC6 | LDD | T2 | | 1AJ | 9629 |
| 5715 | 1002 | | | SHN | 2 | | 1AJ | 9630 |
| 5716 | 3102 | | | ADD | T2 | | 1AJ | 9631 |
| 5717 | 5500 | 5700 | | RAM | LECA | | 1AJ | 9632 |
| 5721 | 3002 | | | LDD | T2 | INCREMENT EXTENDED MEMORY ADDRESS | V23L617 | 795 |
| 5722 | 3562 | | | RAD | CW+2 | | 1AJ | 9634 |
| 5723 | 1063 | | | SHN | -14 | | 1AJ | 9635 |
| 5724 | 3561 | | | RAD | CW+1 | | 1AJ | 9636 |
| 5725 | 3064 | | | LDD | CW+4 | DECREMENT *WCL* | 1AJ | 9637 |
| 5726 | 3202 | | | SBD | T2 | | 1AJ | 9638 |
| 5727 | 3464 | | | STD | CW+4 | | 1AJ | 9639 |
| 5730 | 0604 | | | PJN | LEC7 | IF NO UNDERFLOW | 1AJ | 9640 |
| 5731 | 3664 | | | AOD | CW+4 | ADJUST RESULT | 1AJ | 9641 |
| 5732 | 3763 | | | SOD | CW+3 | | 1AJ | 9642 |
| 5733 | 0713 | | | MJN | LEC8 | IF NO UNDERFLOW | 1AJ | 9643 |
| 5734 | 3001 | | LEC7 | LDD | T1 | DECREMENT SECTOR WORD COUNT | 1AJ | 9644 |
| 5735 | 3202 | | | SBD | T2 | | 1AJ | 9645 |
| 5736 | 3401 | | | STD | T1 | | 1AJ | 9646 |
| 5737 | 3064 | | | LDD | CW+4 | CHECK FOR END OF LOAD | 1AJ | 9647 |
| 5740 | 3163 | | | ADD | CW+3 | | 1AJ | 9648 |
| 5741 | 0410 | | | ZJN | LEC9 | IF END OF LOAD | 1AJ | 9649 |
| 5742 | 3016 | | | LDD | WC | DECREMENT LOAD BUFFER WORD COUNT | 1AJ | 9650 |
| 5743 | 3202 | | | SBD | T2 | | 1AJ | 9651 |
| 5744 | 0100 | 5654 | | LJM | LEC3 | SET NEW WORD COUNT | 1AJ | 9652 |
| | | | | | | | 1AJ | 9653 |
| 5746 | 2000 | 2134 | LEC8 | LDC | /ERR/EM22 | * UNIDENTIFIED PROGRAM FORMAT.* | NS2031 | 290 |
| 5750 | 0341 | | | JMP | LCPX | RETURN ERROR | 1AJ | 9655 |
| | | | | | | | 1AJ | 9656 |
| 5751 | 5000 | 5700 | LEC9 | LDM | LECA | RESET LOAD BUFFER ADDRESS | 1AJ | 9657 |
| 5753 | 1702 | | | SBN | 2 | | 1AJ | 9658 |
| 5754 | 3403 | | | STD | T3 | | 1AJ | 9659 |
| 5755 | 3001 | | | LDD | T1 | | 1AJ | 9660 |
| 5756 | 0503 | | | NJN | LEC10 | IF SECTOR NOT EMPTY | 1AJ | 9661 |
| 5757 | 0100 | 5622 | | LJM | LEC1 | GO READ NEXT SECTOR | 1AJ | 9662 |
| | | | | | | | 1AJ | 9663 |
| 5761 | 0100 | 5617 | LEC10 | LJM | LECX | RETURN | 1AJ | 9664 |

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|----|----|------|-----------|------|---|---------|------|
| | ** | | | | MSR - MASS STORAGE READ ERROR PROCESSOR | 1AJ | 9666 |
| | * | | | | | 1AJ | 9667 |
| | * | | | | *MSR* IS CALLED- | 1AJ | 9668 |
| 1 | * | | | | 1) IF AN INACCESSIBLE MASS STORAGE DEVICE OR AN I/O | 242L642 | 458 |
| 2 | * | | | | ERROR IS ENCOUNTERED. | 242L642 | 459 |
| 3 | * | | | | 2) IF A BAD ECS LOAD ADDRESS IS ENCOUNTERED. | 1AJ | 9671 |
| 4 | * | | | | | 1AJ | 9672 |
| 5 | * | | | | ENTRY (AB - AB+4) = PROGRAM NAME. | 1AJ | 9673 |
| 6 | * | | | | (T4) = CHANNEL NUMBER. | 1AJ | 9674 |
| 7 | * | | | | (T5) = EST ORDINAL OF EQUIPMENT WITH ERROR. | 273L780 | 10 |
| 8 | * | | | | (FA) .NE. 0 IF FILE LOAD. | 1AJ | 9675 |
| 9 | * | | | | (FA) .NE. 0 IF LOCAL FILE LOAD. | 242L642 | 460 |
| 10 | * | | | | (FS - FS+4) = FST ENTRY IN FILE LOAD. | 242L642 | 461 |
| 11 | * | | | | | 1AJ | 9676 |
| 12 | * | | | | EXIT TO *LCPX* TO ABORT JOB IF LOCAL FILE LOAD. | 1AJ | 9677 |
| 13 | * | | | | TO *LCP1* TO RETRY LOAD. | 1AJ | 9678 |
| 14 | * | | | | TO *LDE* TO ABORT OVERLAY LOAD FROM LOCAL FILE. | NS2031A | 3 |
| 15 | * | | | | TO *1RJ* IF A RECOVERABLE MASS STORAGE ERROR OR | 242L642 | 462 |
| 16 | * | | | | INACCESSIBLE DEVICE IS ENCOUNTERED. | 242L642 | 463 |
| 17 | * | | | | | 1AJ | 9679 |
| 18 | * | | | | USES FS+4, IR+4, T5, CM - CM+4, CW - CW+4. | 273L780 | 11 |
| 19 | * | | | | | 1AJ | 9681 |
| 20 | * | | | | CALLS CLD, *1RJ*. | 242L642 | 465 |
| 21 | * | | | | | 1AJ | 9683 |
| 22 | * | | | | MACROS ENDMS, EXECUTE, MONITOR, NFA. | 242L642 | 466 |
| 23 | | | | | | 1AJ | 9685 |
| 24 | | | | | | 1AJ | 9686 |
| 25 | | 5763 | | MSR | BSS 0 ENTRY | 242L642 | 467 |
| 26 | | 5763 | 0200 0535 | | ENDMS | 242L642 | 468 |
| 27 | | 5765 | 5000 0103 | | LDM RDCT CHECK NON-RECOVERABLE MASS STORAGE ERROR | 242L642 | 469 |
| 28 | | 5767 | 1007 | | SHN 21-12 | 242L642 | 470 |
| 29 | | 5770 | 0734 | | MJN MSR2 IF NON-RECOVERABLE | 242L642 | 471 |
| 30 | | 5771 | 5000 0110 | | LDM MSD CHECK FOR SUBSYSTEM | 242L642 | 472 |
| 31 | | 5773 | 1006 | | SHN 21-13 | 242L642 | 473 |
| 32 | | 5774 | 0630 | | PJN MSR2 IF A SUBSYSTEM, ABORT JOB | 242L642 | 474 |
| 33 | | 5775 | 3005 | | LDD T5 SET EQUIPMENT TO WAIT FOR | 242L642 | 475 |
| 34 | | 5776 | 3454 | | STD IR+4 | 242L642 | 476 |
| 35 | | 5777 | 3057 | | LDD FA CHECK REQUEST | 242L642 | 477 |
| 36 | | 6000 | 0412 | | ZJN MSR1 IF NOT LOCAL FILE LOAD | 242L642 | 478 |
| 37 | | 6001 | 3024 | | LDD FS+4 SET OPERATION COMPLETE | 242L642 | 479 |
| 38 | | 6002 | 1377 | | SCN 77 | 242L642 | 480 |
| 39 | | 6003 | 1105 | | LMN 5 | 242L642 | 481 |
| 40 | | 6004 | 3424 | | STD FS+4 | 242L642 | 482 |
| 41 | | 6005 | 3055 | | NFA FA,R STORE FST ENTRY | 242L642 | 483 |
| 42 | | 6010 | 1601 | | ADN FSTL | 242L642 | 484 |
| 43 | | 6011 | 6220 | | CWD FS | 242L642 | 485 |
| 44 | | 6012 | 1400 | | MSR1 LDN 0 | 273L780 | 12 |
| 45 | | | | * | LDN 1 (JOB ADVANCE NOT SET) | 273L780 | 13 |
| 46 | | | 6012 | MSRA | EQU *-1 | 242L642 | 488 |
| 47 | | 6013 | 0505 | | NJN MSR1.1 IF NON JOB ADVANCE TYPE ERROR PROCESSING | 242L642 | 489 |
| 48 | | 6014 | 3411 | | STD CM+1 CLEAR JOB ADVANCE | 273L780 | 14 |
| 49 | | 6015 | 1463 | | MONITOR JACM | 242L642 | 492 |
| 50 | | 6020 | 2034 2212 | | MSR1.1 EXECUTE 1RJ ROLL JOB | 242L642 | 493 |
| 51 | | | | * | LJM PPR DOES NOT RETURN | 242L642 | 494 |
| 52 | | | | | | 242L642 | 495 |
| 53 | | 6024 | 3057 | | MSR2 LDD FA CHECK REQUEST | 242L642 | 496 |
| 54 | | 6025 | 0405 | | ZJN MSR4 IF NOT LOCAL FILE LOAD | 242L642 | 497 |

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| 6026 | 2000 2154 | MSR3 | LDC | /ERR/EM23 | * UNRECOVERED MASS STORAGE ERROR.* | 242L642 | 498 |
| | | * | LDC | /ERR/EM23+400000 | (LOCAL FILE LOAD PROCESSING) | 242L642 | 499 |
| | 6026 | MSRB | EQU | *-2 | | 242L642 | 500 |
| 6030 | 0100 4555 | | LJM | LCPX | ABORT LOCAL FILE LOAD | 242L642 | 501 |
| | | * | LJM | LDE | (OVERLAY LOAD FROM LOCAL FILE) | 242L642 | 502 |
| | 6031 | MSRC | EQU | *-1 | | 242L642 | 503 |
| | | | | | | 242L642 | 504 |
| 6032 | 0200 6512 | MSR4 | RJM | CLD | SEARCH CENTRAL DIRECTORY | 242L642 | 505 |
| 6034 | 0505 | | NJN | MSR5 | IF ENTRY FOUND | 242L642 | 506 |
| 6035 | 2000 2175 | | LDC | /ERR/EM24 | * OVERLAY LOST.* | 242L642 | 507 |
| 6037 | 0100 4555 | | LJM | LCPX | EXIT | 242L642 | 508 |
| | | | | | | 242L642 | 509 |
| 6041 | 6060 | MSR5 | CRD | CW | READ CONTROL WORD | 242L642 | 510 |
| 6042 | 1701 | | SBN | 1 | | 1AJ | 9702 |
| 6043 | 6010 | | CRD | CM | READ LIBRARY ENTRY | 1AJ | 9703 |
| 6044 | 3062 | | LDD | CW+2 | SET ALTERNATE EQUIPMENT | 1AJ | 9704 |
| 6045 | 3405 | | STD | T5 | | 1AJ | 9705 |
| 6046 | 3061 | | LDD | CW+1 | | 1AJ | 9706 |
| 6047 | 2200 4000 | | LPC | 4000 | | 1AJ | 9707 |
| 6051 | 0454 | | ZJN | MSR3 | IF NOT AN ALTERNATE SYSTEM DEVICE | 242L642 | 511 |
| 6052 | 3012 | | LDD | CM+2 | SET ADDRESS OF PROGRAM ON SYSTEM DEVICE | 1AJ | 9709 |
| 6053 | 3462 | | STD | CW+2 | | 1AJ | 9710 |
| 6054 | 3013 | | LDD | CM+3 | | 1AJ | 9711 |
| 6055 | 3463 | | STD | CW+3 | | 1AJ | 9712 |
| 6056 | 3014 | | LDD | CM+4 | | 1AJ | 9713 |
| 6057 | 3464 | | STD | CW+4 | | 1AJ | 9714 |
| 6060 | 3061 | | LDD | CW+1 | CLEAR *ASR* FLAG | 1AJ | 9715 |
| 6061 | 2200 3777 | | LPC | 3777 | | 1AJ | 9716 |
| 6063 | 3461 | | STD | CW+1 | | 1AJ | 9717 |
| 6064 | 3001 | | LDD | T1 | | 1AJ | 9718 |
| 6065 | 1014 | | SHN | 14 | | 1AJ | 9719 |
| 6066 | 3102 | | ADD | T2 | | 1AJ | 9720 |
| 6067 | 6260 | | CWD | CW | | 1AJ | 9721 |
| 6070 | 2000 1400 | | LDC | LDNI | RESET *CMS* | 1AJ | 9722 |
| 6072 | 5400 4713 | | STM | CMSD | | 1AJ | 9723 |
| 6074 | 1400 | | LDN | 0 | | 1AJ | 9724 |
| 6075 | 5400 5032 | | STM | CMSF+4 | CLEAR MASS STORAGE INCREMENT | 1AJ | 9725 |
| 6077 | 0100 4563 | | LJM | LCP1 | RETRY READ | 1AJ | 9726 |

** SPF - SET PROGRAM FORMAT. 1AJ 9728
 * ENTRY (T3) = ADDRESS OF PROGRAM HEADER - 2. 1AJ 9729
 * EXIT (A) = (PF) = PROGRAM FORMAT 1AJ 9730
 * 1 = *OVL* 1AJ 9731
 * 2 = *ABS* 1AJ 9732
 * .GT. 2 = ADDRESS OF MESSAGE. 1AJ 9733
 * (SPFA) = MINFL FROM 54 TABLE. 1AJ 9734
 * = 0, IF NO MINFL. 1AJ 9735
 * 1AJ 9736
 * 1AJ 9737
 * 1AJ 9738
 * USES PF, T2, CM - CM+4. 1AJ92 65

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|------|-----------|------|-----|-----------|---------------------------------|--------|-----|
| 6101 | 2000 2134 | SPF7 | LDC | /ERR/EM22 | * UNIDENTIFIED PROGRAM FORMAT.* | NS2031 | 293 |
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| 6103 | 3465 | | SPF8 | STD | PF | | 1AJ | 9743 |
| 6104 | 0100 | 6104 | SPF | SUBR | | ENTRY/EXIT | 1AJ | 9744 |
| 6106 | 5003 | 0002 | | LDM | 2,T3 | | 1AJ | 9745 |
| 6110 | 1071 | | | SHN | -6 | | 1AJ | 9746 |
| 6111 | 1750 | | | SBN | 50 | | 1AJ | 9747 |
| 6112 | 5400 | 5210 | | STM | SLPC | | 1AJ | 9748 |
| 6114 | 0764 | | | MJN | SPF7 | IF NOT *OVL*/*ABS* | 1AJ | 9749 |
| 6115 | 1702 | | | SBN | 2 | | 1AJ | 9750 |
| 6116 | 0462 | | | ZJN | SPF7 | IF TYPE PPU | 1AJ | 9751 |
| 6117 | 1701 | | | SBN | 1 | | 1AJ | 9752 |
| 6120 | 0521 | | | NJN | SPF3 | IF NOT *ACPM* TABLE | 1AJ | 9753 |
| 6121 | 5003 | 0005 | | LDM | 2+3,T3 | | 1AJ | 9754 |
| 6123 | 1240 | | | LPN | 40 | | 1AJ | 9755 |
| 6124 | 0507 | | | NJN | SPF2 | IF MULTIPLE ENTRY POINTS | 1AJ | 9756 |
| | | | * | LDN | 0 | | 1AJ | 9757 |
| 6125 | 5400 | 5324 | SPF1 | STM | SLPG | SET NUMBER OF ENTRY POINTS | 1AJ | 9758 |
| 6127 | 1401 | | | LDN | 1 | DO NOT SEARCH ENTRY POINTS | 1AJ | 9759 |
| 6130 | 5400 | 5366 | | STM | SLPH | | 1AJ | 9760 |
| 6132 | 0350 | | | UJN | SPF8 | RETURN | 1AJ | 9761 |
| | | | | | | | 1AJ | 9762 |
| 6133 | 5003 | 0006 | SPF2 | LDM | 6,T3 | SET NUMBER OF ENTRY POINTS | 1AJ | 9763 |
| 6135 | 5400 | 5324 | | STM | SLPG | | 1AJ | 9764 |
| 6137 | 1402 | | | LDN | 2 | SET PROGRAM FORMAT | 1AJ | 9765 |
| 6140 | 0342 | | | UJN | SPF8 | RETURN | 1AJ | 9766 |
| | | | | | | | 1AJ | 9767 |
| 6141 | 5003 | 0002 | SPF3 | LDM | 2,T3 | | 1AJ | 9768 |
| 6143 | 1071 | | | SHN | -6 | | 1AJ | 9769 |
| 6144 | 1750 | | | SBN | 50 | | 1AJ | 9770 |
| 6145 | 0457 | | | ZJN | SPF1 | IF 50 TABLE | 1AJ | 9771 |
| 6146 | 1701 | | | SBN | 1 | | 1AJ | 9772 |
| 6147 | 0463 | | | ZJN | SPF2 | IF 51 TABLE | 1AJ | 9773 |
| 6150 | 1703 | | | SBN | 3 | | 1AJ | 9774 |
| 6151 | 0403 | | | ZJN | SPF4 | IF 54 TABLE | 1AJ | 9775 |
| 6152 | 0100 | 6101 | | LJM | SPF7 | PROCESS ERROR | 1AJ | 9776 |
| | | | | | | | 1AJ | 9777 |
| 6154 | 5003 | 0006 | SPF4 | LDM | 6,T3 | | 1AJ | 9778 |
| 6156 | 5400 | 5324 | | STM | SLPG | | 1AJ | 9779 |
| 6160 | 5003 | 0003 | | LDM | 2+1,T3 | CHECK OVERLAY LEVEL | 1AJ | 9780 |
| 6162 | 0403 | | | NJP | SPF5 | IF NOT 00,00 LEVEL OVERLAY | 1AJ92 | 66 |
| 6165 | 5003 | 0012 | | LDM | 2+5*1+3,T3 | MINFL | 1AJ | 9781 |
| 6167 | 1277 | | | LPN | 77 | | 1AJ | 9782 |
| 6170 | 1014 | | | SHN | 14 | | 1AJ | 9783 |
| 6171 | 5303 | 0013 | | LMM | 2+5*1+4,T3 | | 1AJ | 9784 |
| 6173 | 1677 | | | ADN | 77 | | 1AJ | 9785 |
| 6174 | 1071 | | | SHN | -6 | | 1AJ | 9786 |
| 6175 | 5400 | 6272 | | STM | SPFA | INDICATE FL ERROR | 1AJ | 9787 |
| 6177 | 1407 | | | LDN | 7 | BIAS ENTRY POINT FOR 54 TABLE (ABS) | 1AJ | 9788 |
| 6200 | 5400 | 5042 | | STM | SLPA | | 1AJ | 9789 |
| 6202 | 5400 | 5452 | | STM | CSFB | | 1AJ | 9790 |
| 6204 | 5500 | 5324 | | RAM | SLPG | ADD OFFSET TO NUMBER REGULAR EP-S | 1AJ | 9791 |
| | | | | | | | 1AJ92 | 67 |
| | | | * | | | PROCESS *FOL* CONTROL WORDS. | 1AJ92 | 68 |
| | | | | | | | 1AJ92 | 69 |
| 6206 | 1466 | | | LDN | ZERL | | 1AJ92 | 70 |
| 6207 | 6010 | | | CRD | CM | | 1AJ92 | 71 |
| 6210 | 5000 | 1302 | | LDM | /TCS/CGLC | SET RANDOM INDEX | 1AJ92 | 72 |

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| 6212 | 3412 | | STD | CM+2 | | 1AJ92 | 73 |
| 6213 | 5000 1303 | | LDM | /TCS/CGLC+1 | | 1AJ92 | 74 |
| 6215 | 3413 | | STD | CM+3 | | 1AJ92 | 75 |
| 6216 | 3077 | | LDD | MA | SAVE RANDOM INDEX IN MB+1 | 1AJ92 | 76 |
| 6217 | 1601 | | ADN | 1 | | 1AJ92 | 77 |
| 6220 | 6210 | | CWD | CM | | 1AJ92 | 78 |
| 6221 | 3055 | | LDD | RA | GET PROGRAM NAME TO FORM *FOL* LOAD DATA | 1AJ92 | 79 |
| 6222 | 1006 | | SHN | 6 | | 1AJ92 | 80 |
| 6223 | 1664 | | ADN | PGNR | | 1AJ92 | 81 |
| 6224 | 6010 | | CRD | CM | | 1AJ92 | 82 |
| 6225 | 5003 0043 | | LDM | 2+5*6+3,T3 | MERGE DIRECTORY LENGTH WITH LFN | 1AJ92 | 83 |
| 6227 | 1277 | | LPN | 77 | | 1AJ92 | 84 |
| 6230 | 0403 | SPF4.1 | NJP | SPF7 | IF DIRECTORY TOO LONG | 1AJ92 | 85 |
| 6233 | 5003 0044 | | LDM | 2+5*6+4,T3 | | 1AJ92 | 86 |
| 6235 | 0420 | | ZJN | SPF4.2 | IF *FOL* DIRECTORY NOT PRESENT | 1AJ92 | 87 |
| 6236 | 3414 | | STD | CM+4 | | 1AJ92 | 88 |
| 6237 | 5500 5452 | | RAM | CSFB | | 1AJ92 | 89 |
| 6241 | 1063 | | SHN | -14 | | 1AJ92 | 90 |
| 6242 | 0565 | | NJN | SPF4.1 | IF DIRECTORY TOO LONG | 1AJ92 | 91 |
| 6243 | 1402 | SPFB | LDN | 2 | | 1AJ92 | 92 |
| | | * | UJN | SPF4.2 | (SYSTEM FILE LOAD) | 1AJ92 | 93 |
| | | | | | | 1AJ92 | 94 |
| 6244 | 3402 | | STD | T2 | | 1AJ92 | 95 |
| 6245 | 3003 | | LDD | T3 | READ *FOL* DATA TO HEADER | 1AJ92 | 96 |
| 6246 | 1640 | | ADN | 2+5*6 | | 1AJ92 | 97 |
| 6247 | 5400 6254 | | STM | SPFC | | 1AJ92 | 98 |
| 6251 | 3077 | | LDD | MA | | 1AJ92 | 99 |
| 6252 | 6210 | | CWD | CM | | 1AJ92 | 100 |
| 6253 | 6102 6253 | | CRM | *,T2 | | 1AJ92 | 101 |
| | | 6254 | EQU | *-1 | | 1AJ92 | 102 |
| 6255 | 1402 | SPFC | LDN | 2 | SET PROGRAM FORMAT = ABS | 1AJ92 | 103 |
| 6256 | 0312 | SPF4.2 | UJN | SPF6 | RETURN | 1AJ | 9795 |
| | | | | | | 1AJ | 9796 |
| 6257 | 1403 | SPF5 | LDN | 3 | SET HEADER LENGTH FOR 54 TABLE (OVL) | 1AJ | 9797 |
| 6260 | 5400 5452 | | STM | CSFB | | 1AJ | 9798 |
| 6262 | 1404 | | LDN | 4 | BIAS ENTRY POINT FOR 54 TABLE (OVL) | 1AJ | 9799 |
| 6263 | 5400 5042 | | STM | SLPA | | 1AJ | 9800 |
| 6265 | 5500 5324 | | RAM | SLPG | ADD OFFSET TO NUMBER REGULAR EP-S | 1AJ | 9801 |
| 6267 | 1401 | | LDN | 1 | SET PROGRAM FORMAT = OVL | 1AJ | 9802 |
| 6270 | 0100 6103 | SPF6 | LJM | SPF8 | RETURN | 1AJ | 9803 |
| | | | | | | 1AJ | 9804 |
| | | | | | | 1AJ | 9805 |
| 6272 | 0000 | SPFA | CON | 0 | MINFL FROM 54 TABLE | 1AJ | 9806 |
| | | | | | | 1AJ92 | 104 |
| | 25 | | ERRNG | 37+SPFB-SPF4.2 | IF JUMP OUT OF RANGE | 1AJ92 | 105 |

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| 6336 | 3102 | | ADD | T2 | | 1AJ75 | 37 |
| 6337 | 3503 | | RAD | T3 | | 1AJ75 | 38 |
| 6340 | 3001 | | LDD | T1 | DECREMENT WORD COUNT | 1AJ75 | 39 |
| 6341 | 3202 | | SBD | T2 | | 1AJ75 | 40 |
| 6342 | 3401 | | STD | T1 | | 1AJ75 | 41 |
| 6343 | 0347 | | UJN | CPDX | RETURN | 1AJ75 | 42 |
| | | | ** | | CPF - CHECK PROGRAM FORMAT. | 1AJ | 9834 |
| | | | * | | | 1AJ | 9835 |
| | | | * | | ENTRY (T4 - T7) = MASS STORAGE PARAMETERS. | 1AJ | 9836 |
| | | | * | | | 1AJ | 9837 |
| | | | * | | EXIT (A) = 0 IF CORRECT FORMAT. | 1AJ | 9838 |
| | | | * | | (A) = ERROR MESSAGE ADDRESS. | NS2031 | 294 |
| | | | * | | (WC) = SECTOR WORD COUNT. | 1AJ | 9841 |
| | | | * | | (T1) = WORD COUNT OF DATA IN SECTOR. | 1AJ | 9842 |
| | | | * | | (T3) = ADDRESS OF PROGRAM START. | 1AJ | 9843 |
| | | | * | | (CN - CN+1) = CENTRAL LOAD ADDRESS. | 1AJ | 9844 |
| | | | * | | (PF) = PROGRAM FORMAT. | 1AJ | 9845 |
| | | | * | | 1 = *OVL* | 1AJ | 9846 |
| | | | * | | 2 = *ABS* | 1AJ | 9847 |
| | | | * | | .GT. 2 = UNIDENTIFIED FORMAT. | 1AJ | 9848 |
| | | | * | | CONTAINS MESSAGE ADDRESS. | 1AJ | 9849 |
| | | | * | | MASS STORAGE ERROR PROCESSING SELECTED. | 1AJ | 9850 |
| | | | * | | TO *MSR* IF MASS STORAGE ERROR | 242L642 | 512 |
| | | | * | | | 1AJ | 9851 |
| | | | * | | USES T1 - T3, CN - CN+1. | 1AJ | 9852 |
| | | | * | | | 1AJ | 9853 |
| | | | * | | CALLS RNS, SPF. | 1AJ | 9854 |
| | | | * | | | 1AJ | 9855 |
| | | | * | | MACROS SETMS. | 1AJ | 9856 |
| | | | | | | 1AJ | 9857 |
| | | | | | | 1AJ | 9858 |
| 6344 | 2000 2134 | | CPF4 | LDC | /ERR/EM22 * UNIDENTIFIED PROGRAM FORMAT.* | NS2031 | 295 |
| | | | | | | 1AJ | 9860 |
| 6346 | 0100 6346 | | CPF | SUBR | ENTRY/EXIT | 1AJ | 9861 |
| | | | | SETMS | =,READSTR SET STREAMED READ FLAG | 242L642 | 513 |
| 6350 | 5000 0111 | | LDM | CHRV | | 242L642 | 514 |
| 6352 | 2277 6777 | | LPC | -1000 | | 242L642 | 515 |
| 6354 | 3372 | | LMD | TH | | 242L642 | 516 |
| 6355 | 5400 0111 | | STM | CHRV | | 242L642 | 517 |
| 6357 | 1400 | | SETMS | POSITION | FORCE *LDAM* ON NEXT READ | 1AJ81 | 2 |
| 6361 | 2000 6776 | | LDC | BFMS | READ SECTOR | 1AJ | 9863 |
| 6363 | 0200 6735 | | RJM | RNS | | 1AJ | 9864 |
| 6365 | 0603 | | MJP | MSR | IF MASS STORAGE ERROR | 242L642 | 518 |
| 6370 | 3416 | | STD | WC | SAVE SECTOR WORD COUNT | 1AJ | 9865 |
| 6371 | 0452 | | ZJN | CPF4 | IF EMPTY SECTOR | 1AJ | 9866 |
| | | | | | | 1AJ | 9867 |
| | | | * | | DELETE 7700 TABLE IF PRESENT. | 1AJ | 9868 |
| | | | | | | 1AJ | 9869 |
| 6372 | 5000 7000 | | LDM | BFMS+2 | CHECK FIRST WORD | 1AJ | 9870 |
| 6374 | 2300 7700 | | LMC | 7700 | | 1AJ | 9871 |
| 6376 | 0513 | | NJN | CPF1 | IF NOT 7700 TABLE | 1AJ | 9872 |
| 6377 | 5000 7001 | | LDM | BFMS+2+1 | SKIP 7700 TABLE | 1AJ | 9873 |
| 6401 | 1601 | | ADN | 1 | | 1AJ | 9874 |

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| 6402 | 3402 | | STD | T2 | | 1AJ | 9875 | |
| 6403 | 1002 | | SHN | 2 | | 1AJ | 9876 | |
| 6404 | 3102 | | ADD | T2 | | 1AJ | 9877 | |
| 6405 | 3503 | | RAD | T3 | | 1AJ | 9878 | |
| 6406 | 3001 | | LDD | T1 | ADJUST WORD COUNT | 1AJ | 9879 | |
| 6407 | 3202 | | SBD | T2 | | 1AJ | 9880 | |
| 6410 | 3401 | | STD | T1 | | 1AJ | 9881 | |
| | | | | | | 1AJ | 9882 | |
| | | | * | PROCESS | *OVL*/*ABS*. | 1AJ | 9883 | |
| | | | | | | 1AJ | 9884 | |
| 6411 | 0200 | 6105 | CPF1 | RJM | SPF | SET PROGRAM FORMAT | 1AJ | 9885 |
| 6413 | 1703 | | SBN | 3 | | | 1AJ | 9886 |
| 6414 | 0703 | | MJN | CPF2 | IF LEGAL FORMAT | | 1AJ | 9887 |
| 6415 | 1603 | | ADN | 3 | | | 1AJ | 9888 |
| 6416 | 0314 | | UJN | CPF3 | RETURN WITH INCORRECT FORMAT | V23L617 | 796 | |
| | | | | | | 1AJ | 9890 | |
| 6417 | 5003 | 0005 | CPF2 | LDM | 5,T3 | | 1AJ | 9891 |
| 6421 | 1071 | | SHN | -6 | SET LOAD ADDRESS | | 1AJ | 9892 |
| 6422 | 3426 | | STD | CN+1 | | | 1AJ | 9893 |
| 6423 | 5003 | 0004 | LDM | 4,T3 | | | 1AJ | 9894 |
| 6425 | 1006 | | SHN | 6 | | | 1AJ | 9895 |
| 6426 | 3526 | | RAD | CN+1 | | | 1AJ | 9896 |
| 6427 | 1063 | | SHN | -14 | | | 1AJ | 9897 |
| 6430 | 3425 | | STD | CN | | | 1AJ | 9898 |
| 6431 | 1400 | | LDN | 0 | EXIT WITH (A) = 0 | | 1AJ | 9899 |
| 6432 | 0100 | 6346 | CPF3 | LJM | CPFX | RETURN | 1AJ | 9900 |
| | | | | | | | | |
| | | | ** | CPH | - COPY HEADER DATA. | | 1AJ | 9902 |
| | | | * | | | | 1AJ | 9903 |
| | | | * | ENTRY | (T1) = WORDS IN BUFFER. | | 1AJ | 9904 |
| | | | * | | (T2) = WORD COUNT TO COPY. | | 1AJ | 9905 |
| | | | * | | (T3) = PP BUFFER ADDRESS-2. | | 1AJ | 9906 |
| | | | * | | (CN+3 - CN+4) = *CM* ADDRESS. | | 1AJ | 9907 |
| | | | * | | | | 1AJ | 9908 |
| | | | * | EXIT | (T1, T3, CN+3 - CN+4) UPDATED. | | 1AJ | 9909 |
| | | | * | | TO *CMS2* IF HEADER DATA OUT OF RANGE. | | 1AJ | 9910 |
| | | | * | | | | 1AJ | 9911 |
| | | | * | USES | T1, T2, T3, CN - CN+4. | | 1AJ75 | 43 |
| | | | * | | | | 1AJ75 | 44 |
| | | | * | CALLS | CPD, RNS. | | 1AJ75 | 45 |
| | | | | | | | 1AJ | 9913 |
| | | | | | | | 1AJ | 9932 |
| 6434 | 0100 | 6434 | CPH | SUBR | ENTRY/EXIT | | 1AJ | 9933 |
| 6436 | 3030 | | LDD | CN+3 | CURRENT *CM* LOAD ADDRESS | | 1AJ | 9934 |
| 6437 | 1014 | | SHN | 14 | | | 1AJ | 9935 |
| 6440 | 3331 | | LMD | CN+4 | | | 1AJ | 9936 |
| 6441 | 3102 | | ADD | T2 | ADD WORD COUNT OF TABLE | | 1AJ | 9937 |
| 6442 | 1701 | | SBN | 1 | | | 1AJ | 9938 |
| 6443 | 1071 | | CPHA | SHN | -6 | | 1AJ | 9939 |
| 6444 | 3256 | | SBD | FL | | | 1AJ | 9940 |
| | | | * | ADC | -(LWA+1) (LWA FOR LOAD SPECIFIED) | | 1AJ | 9941 |
| 6445 | 0703 | | MJN | CPH1 | IF TABLE WILL FIT IN LOADABLE FL | | 1AJ | 9942 |
| 6446 | 0100 | 4635 | LJM | CMS10 | ABORT LOAD | | 1AJ | 9943 |
| | | | | | | | 1AJ75 | 46 |

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|------|------|------|------|-----|------|-----------------------------|--------|----|
| 6450 | 3002 | | CPH1 | LDD | T2 | CHECK MULTIPLE SECTOR TABLE | 1AJ75 | 47 |
| 6451 | 3201 | | | SBD | T1 | | 1AJ75 | 48 |
| 6452 | 0725 | | | MJN | CPH2 | IF ALL DATA IN ONE BUFFER | 1AJ75 | 49 |
| 6453 | 0424 | | | ZJN | CPH2 | IF ALL DATA IN ONE BUFFER | 1AJ75 | 50 |
| 6454 | 5400 | 6473 | | STM | CPHB | SAVE REMAINDER | 1AJ75 | 51 |
| 6456 | 3001 | | | LDD | T1 | SET NEW WORD COUNT | 1AJ75 | 52 |
| 6457 | 3402 | | | STD | T2 | | 1AJ75 | 53 |
| 6460 | 0200 | 6314 | | RJM | CPD | COPY DATA | 1AJ75 | 54 |
| 6462 | 2000 | 6776 | | LDC | BFMS | READ NEXT SECTOR | 1AJ75 | 55 |
| 6464 | 3403 | | | STD | T3 | | 1AJ75 | 56 |
| 6465 | 0200 | 6735 | | RJM | RNS | | 1AJ75 | 57 |
| 6467 | 0603 | | | MJP | MSR | IF MASS STORAGE ERROR | 1AJ75A | 1 |
| 6472 | 2000 | 0000 | | LDC | ** | SET REMAINING WORD COUNT | 1AJ75 | 58 |
| | | 6473 | CPHB | EQU | *-1 | | 1AJ75 | 59 |
| 6474 | 3402 | | | STD | T2 | | 1AJ75 | 60 |
| 6475 | 3271 | | | SBD | HN | | 1AJ75B | 1 |
| 6476 | 0651 | | | PJN | CPH1 | IF ANOTHER FULL PRU TO COPY | 1AJ75B | 2 |
| 6477 | 0200 | 6314 | CPH2 | RJM | CPD | COPY DATA | 1AJ75 | 61 |
| 6501 | 0100 | 6434 | | LJM | CPHX | RETURN | 1AJ75 | 62 |

** COMMON DECKS.

| | | | | | | | | |
|------|------|----|-------|---|--|---|---------|------|
| | | | | | | | 1AJ | 9945 |
| | | | | | | | 1AJ | 9946 |
| | | | | | | | 1AJ | 9947 |
| 6503 | 6 | CL | BSS | 6 | | RESERVED FOR CLD INFORMATION | 1AJ | 9948 |
| 6511 | | | CTEXT | | | COMPCLD - SEARCH CENTRAL LIBRARY DIRECTORY. | COMPCLD | 1 |
| 6531 | | | CTEXT | | | COMPDDT - DIRECT DISK TRANSFER. | COMPDDT | 1 |
| | | | LIST | G | | | COMPDDT | 149 |
| 6711 | 0002 | | VFD | | | 10/0,2/REC.CP | *ECHO* | .1 |
| 6712 | 0002 | | VFD | | | 10/0,2/REC.CS | *ECHO* | .1 |
| 6713 | 0002 | | VFD | | | 10/0,2/REC.RA | *ECHO* | .1 |
| 6714 | 0002 | | VFD | | | 10/0,2/REC.FT | *ECHO* | .1 |
| 6715 | 0002 | | VFD | | | 10/0,2/REC.CF | *ECHO* | .1 |
| 6716 | 0002 | | VFD | | | 10/0,2/REC.ID | *ECHO* | .1 |
| 6717 | 0000 | | VFD | | | 10/0,2/REC.DF | *ECHO* | .1 |
| 6720 | 0000 | | VFD | | | 10/0,2/REC.ME | *ECHO* | .1 |
| 6721 | 0000 | | VFD | | | 10/0,2/REC.AD | *ECHO* | .1 |
| 6722 | 0001 | | VFD | | | 10/0,2/REC.ST | *ECHO* | .1 |
| 6723 | 0000 | | VFD | | | 10/0,2/REC.SK | *ECHO* | .1 |
| 6724 | 0000 | | VFD | | | 10/0,2/REC.IW | *ECHO* | .1 |
| 6725 | 0001 | | VFD | | | 10/0,2/REC.LN | *ECHO* | .1 |
| 6726 | 0001 | | VFD | | | 10/0,2/REC.NR | *ECHO* | .1 |
| 6727 | 0001 | | VFD | | | 10/0,2/REC.RS | *ECHO* | .1 |
| 6730 | 0001 | | VFD | | | 10/0,2/REC.CR | *ECHO* | .1 |
| 6731 | 0001 | | VFD | | | 10/0,2/REC.RD | *ECHO* | .1 |
| 6732 | 0001 | | VFD | | | 10/0,2/REC.SA | *ECHO* | .1 |
| | | | LIST | * | | | COMPDDT | 153 |
| 6733 | | | CTEXT | | | COMPRNS - READ NEXT SECTOR. | COMPRNS | 1 |

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ERRNG BFMS-*

1AJ

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1AJ

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1AJ

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1AJ

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** CODE OVERLAYED BY *BFMS*.

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| | ** | | | CSA - CHECK FOR *SYSEDT* ACTIVITY. | | | 1AJ | 9998 |
| | * | | | INSURE *SYSEDT* IS NOT ACTIVE BEFORE REQUESTING LOAD OF A | | | 1AJ | 9999 |
| | * | | | CM OR ALTERNATE DEVICE RESIDENT PROGRAM. IF *SYSEDT* IS | | | 1AJ | 10000 |
| 1 | * | | | ACTIVE, FORCE LOAD FROM SYSTEM DEVICE. | | | 1AJ | 10001 |
| 2 | * | | | | | | 1AJ | 10002 |
| 3 | * | | | ENTRY (CW - CW+4) = LIBRARY CONTROL WORD. | | | 1AJ | 10003 |
| 4 | * | | | (T5) = ALTERNATE DEVICE EST ORDINAL. | | | NS22000 | 239 |
| 5 | * | | | | | | 1AJ | 10005 |
| 6 | * | | | EXIT IF *SYSEDT* ACTIVE, | | | 1AJ | 10006 |
| 7 | * | | | (A) = 0. | | | 1AJ | 10007 |
| 8 | * | | | (CW+3 - CW+4) = TRACK/SECTOR OF PROGRAM ON SYSTEM | | | 1AJ | 10008 |
| 9 | * | | | DEVICE. | | | 1AJ | 10009 |
| 10 | * | | | IF *SYSEDT* NOT ACTIVE. | | | 1AJ | 10010 |
| 11 | * | | | (A) .NE. 0. | | | 1AJ | 10011 |
| 12 | * | | | (CW - CW+4) = UNCHANGED. | | | 1AJ | 10012 |
| 13 | * | | | (CM - CM+4) = (RPLP). | | | 1AJ | 10013 |
| 14 | * | | | | | | 1AJ | 10014 |
| 15 | * | | | USES CM - CM+4, CN - CN+4, CW+3 - CW+4. | | | 1AJ | 10015 |
| 16 | | | | | | | 1AJ | 10016 |
| 17 | | | | | | | 1AJ | 10017 |
| 18 | | 7017 | 0100 7017 | CSA | SUBR | ENTRY/EXIT | 1AJ | 10018 |
| 19 | | 7021 | 2000 0142 | | LDK RPLP | READ RPL POINTER | 1AJ | 10019 |
| 20 | | 7023 | 6010 | | CRD CM | | 1AJ | 10020 |
| 21 | | 7024 | 3010 | | LDD CM | CHECK FOR SYSEDT ACTIVE | 1AJ | 10021 |
| 22 | | 7025 | 3111 | | ADD CM+1 | | 1AJ | 10022 |
| 23 | | 7026 | 0570 | | NJN CSAX | IF SYSEDT NOT ACTIVE | 1AJ | 10023 |
| 24 | | 7027 | 5000 6507 | | LDM CL+4 | SET ADDRESS OF PROGRAM ON SYSTEM DEVICE | 1AJ | 10026 |
| 25 | | 7031 | 3463 | | STD CW+3 | | 1AJ | 10027 |
| 26 | | 7032 | 5000 6510 | | LDM CL+5 | | 1AJ | 10028 |
| 27 | | 7034 | 3464 | | STD CW+4 | | 1AJ | 10029 |
| 28 | | 7035 | 1400 | | LDN 0 | | 1AJ | 10030 |
| 29 | | 7036 | 0360 | | UJN CSAX | RETURN | 1AJ | 10031 |

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| | ** | | | CCM - LOAD CM/ALTERNATE DEVICE (ECS) RESIDENT PROGRAMS. | | 1AJ | 10033 |
| | * | | | | | 1AJ | 10034 |
| | * | | | ENTRY (CW+3 - CW+4) RCL ADDRESSOF *OVL*/*ABS* HEADER. | | 1AJ | 10035 |
| 1 | * | | | (T5) = ALTERNATE DEVICE EST ORDINAL, IF ANY. | | NS22000 | 240 |
| 2 | * | | | | | 1AJ | 10037 |
| 3 | * | | | EXIT TO *CCMX* WITH (A) = ALTERNATE DEVICE EST ORDINAL | | NS22000 | 241 |
| 4 | * | | | IF ALTERNATE DEVICE NOT EXTENDED MEMORY OR DDP. | | V23L617 | 797 |
| 5 | * | | | TO *CCMX* WITH (A) = 0 IF FORCE LOAD | | 1AJ | 10040 |
| 6 | * | | | FROM SYSTEM MS DEVICE. | | 1AJ | 10041 |
| 7 | * | | | TO *LCPX* IF LOAD ERRORS. | | 1AJ | 10043 |
| 8 | * | | | TO *MSR* IF BUFFERED DISK ERROR. | | 251L664 | 4 |
| 9 | * | | | TO *MSR4* IF EXTENDED MEMORY ERROR. | | 251L664 | 5 |
| 10 | * | | | TO *SLP* IF SUCCESSFUL LOAD. | | 1AJ | 10045 |
| 11 | * | | | IF SUCCESSFUL LOAD, | | 1AJ | 10046 |
| 12 | * | | | (AB+3 - AB+4) = FWA OF LOAD. | | 1AJ | 10047 |
| 13 | * | | | (CN+3 - CN+4) = LWA+1 OF LOAD. | | 1AJ | 10048 |
| 14 | * | | | (CM - CM+4) = PROGRAM HEADER. | | 1AJ | 10049 |
| 15 | * | | | (PF) = PROGRAM FORMAT. | | 1AJ | 10050 |
| 16 | * | | | | | 1AJ | 10051 |
| 17 | * | | | USES T1, T2, AB+2 - AB+4, CM - CM+4, CN - CN+4. | | 1AJ | 10052 |
| 18 | * | | | | | 1AJ | 10053 |
| 19 | * | | | CALLS CDP, DDT, DFM, MSR, SPF. | | 1AJ | 10054 |
| 20 | * | | | | | 242L642 | 520 |
| 21 | * | | | MACROS ENDMS, MONITOR, SETMS. | | 242L642 | 521 |
| 22 | | | | | | 1AJ | 10055 |
| 23 | | | | | | 1AJ | 10056 |
| 24 | | 7037 | 1405 | CCM9 | SETMS | STATUS | 242L642 522 |
| 25 | | 7042 | 5000 0110 | | LDM | MSD | NS2776 1 |
| 26 | | 7044 | 1013 | | SHN | 21-6 | NS2776 2 |
| 27 | | 7045 | 0611 | | PJN | CCM10 | NS2776 3 |
| 28 | | 7046 | 1400 | | LDN | 0 | 1AJ 10060 |
| 29 | | 7047 | 3405 | | STD | T5 | 1AJ 10061 |
| 30 | | 7050 | 5000 6507 | | LDM | CL+4 | 1AJ 10062 |
| 31 | | 7052 | 3463 | | STD | CW+3 | 1AJ 10063 |
| 32 | | 7053 | 5000 6510 | | LDM | CL+5 | 1AJ 10064 |
| 33 | | 7055 | 3464 | | STD | CW+4 | 1AJ 10065 |
| 34 | | 7056 | 3005 | CCM10 | LDD | T5 | 1AJ 10066 |
| 35 | | | | | | | 1AJ 10067 |
| 36 | | 7057 | 0100 7057 | CCM | SUBR | ENTRY/EXIT | 1AJ 10068 |
| 37 | | 7061 | 3005 | | LDD | T5 | 1AJ 10069 |
| 38 | | 7062 | 0436 | | ZJN | CCM1 | 252L678 7 |
| 39 | | 7063 | 0200 6274 | | RJM | CDP | 252L678 8 |
| 40 | | 7065 | 0770 | | MJN | CCM10 | 251L664 6 |
| 41 | | 7066 | 0450 | | ZJN | CCM9 | 251L664 7 |
| 42 | | 7067 | 1400 | | SETMS | IO | 242L642 525 |
| 43 | | 7072 | 2000 2003 | | LDC | LDCI+RDDS | 1AJ 10077 |
| 44 | | 7074 | 5400 7174 | | STM | CCMC | 1AJ 10078 |
| 45 | | 7076 | 3064 | | LDD | CW+4 | V23L617 800 |
| 46 | | 7077 | 3407 | | STD | T7 | 1AJ 10080 |
| 47 | | 7100 | 3063 | | LDD | CW+3 | 1AJ 10081 |
| 48 | | 7101 | 3406 | | STD | T6 | 1AJ 10082 |
| 49 | | 7102 | 2000 7246 | | LDC | SCRB | 252L678 9 |
| 50 | | 7104 | 0200 0530 | | RJM | RDS | 252L678 10 |
| 51 | | 7106 | 0603 | | MJP | MSR4 | 252L678 11 |
| 52 | | 7111 | 0200 0535 | | ENDMS | | 252L678 12 |
| 53 | | 7113 | 3077 | | LDD | MA | 1AJ 10094 |
| 54 | | 7114 | 6370 7250 | | CWM | SCRB+2, ON | 252L678 13 |

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| 7116 | 1701 | | SBN | 1 | | | 252L678 | 14 |
| 7117 | 0310 | | UJN | CCM2 | CONTINUE LOAD | | 252L678 | 15 |
| | | | | | | | 1AJ | 10096 |
| 7120 | 3064 | | CCM1 | LDD | CW+4 | | 252L678 | 16 |
| 7121 | 3407 | | | STD | T7 | | 1AJ | 10100 |
| 7122 | 3063 | | | LDD | CW+3 | | 1AJ | 10101 |
| 7123 | 3406 | | | STD | T6 | | 1AJ | 10102 |
| 7124 | 1014 | | | SHN | 14 | GET LOAD ADDRESS | 1AJ | 10103 |
| 7125 | 3307 | | | LMD | T7 | | 1AJ | 10104 |
| 7126 | 1601 | | | ADN | 1 | | 1AJ | 10105 |
| 7127 | 6032 | | CCM2 | CRD | AB | | 252L678 | 17 |
| 7130 | 3035 | | | LDD | AB+3 | SET LOAD ADDRESS FROM PROGRAM | 1AJ | 10107 |
| 7131 | 1377 | | | SCN | 77 | | 1AJ | 10108 |
| 7132 | 1006 | | | SHN | 6 | | 1AJ | 10109 |
| 7133 | 3334 | | | LMD | AB+2 | | 1AJ | 10110 |
| 7134 | 1006 | | | SHN | 6 | | 1AJ | 10111 |
| 7135 | 3436 | | | STD | AB+4 | | 1AJ | 10112 |
| 7136 | 1063 | | | SHN | -14 | | 1AJ | 10113 |
| 7137 | 3435 | | | STD | AB+3 | | 1AJ | 10114 |
| 7140 | 2000 | 0000 | | LDC | 0 | | 1AJ | 10115 |
| | | | 7140 | CCMA | EQU | *-2 | 1AJ | 10116 |
| 7142 | 0413 | | | ZJN | CCM4 | IF NO USER SPECIFIED LOAD ADDRESS | 252L678 | 18 |
| 7143 | 1702 | | | SBN | 2 | | 1AJ | 10118 |
| 7144 | 0605 | | | PJN | CCM3 | IF LOAD ADDRESS .GE. 2 | 252L678 | 19 |
| 7145 | 2000 | 2102 | | LDC | /ERR/EM20 | * INCORRECT LOAD ADDRESS.* | 252L678 | 20 |
| 7147 | 0100 | 4555 | | LJM | LCPX | EXIT | 252L678 | 21 |
| | | | | | | | 252L678 | 22 |
| 7151 | 1602 | | CCM3 | ADN | 2 | | 252L678 | 23 |
| 7152 | 3436 | | | STD | AB+4 | | 1AJ | 10123 |
| 7153 | 1063 | | | SHN | -14 | | 1AJ | 10124 |
| 7154 | 3435 | | | STD | AB+3 | | 1AJ | 10125 |
| 7155 | 3077 | | CCM4 | LDD | MA | COPY LOAD ADDRESS | 252L678 | 24 |
| 7156 | 6232 | | | CWD | AB | | 1AJ | 10127 |
| 7157 | 6010 | | | CRD | CM | | 1AJ | 10128 |
| 7160 | 1400 | | CCMB | LDN | 0 | CHECK FOR LWA SPECIFIED | 1AJ | 10129 |
| 7161 | 0406 | | | ZJN | CCM5 | IF NOT SPECIFIED | 252L678 | 25 |
| 7162 | 5000 | 1516 | | LDM | /LDR/LDRB+3 | | 1AJ | 10131 |
| 7164 | 1014 | | | SHN | 14 | | 1AJ | 10132 |
| 7165 | 5300 | 1517 | | LMM | /LDR/LDRB+4 | | 1AJ | 10133 |
| 7167 | 1014 | | CCM5 | SHN | 14 | | 252L678 | 26 |
| 7170 | 3412 | | | STD | CM+2 | | 1AJ | 10135 |
| 7171 | 1071 | | | SHN | -6 | | 1AJ | 10136 |
| 7172 | 1377 | | | SCN | 77 | | 1AJ | 10137 |
| 7173 | 3513 | | | RAD | CM+3 | | 1AJ | 10138 |
| 7174 | 2006 | 7777 | CCMC | LDC | LCRS*10000+7777 | LOAD CM RESIDENT CODE | 1AJ | 10139 |
| | | | * | LDC | RDDS*10000+7777 | (EXTENDED MEMORY LOAD) | V23L617 | 802 |
| 7176 | 0200 | 6532 | | RJM | DDT | | 1AJ | 10141 |
| 7200 | 0732 | | | MJN | CCM7 | IF ERROR | 252L678 | 27 |
| 7201 | 3005 | | | LDD | T5 | | 252L678 | 28 |
| 7202 | 0403 | | | ZJN | CCM6 | IF CM LOAD | 252L678 | 29 |
| 7203 | 0200 | 0535 | | ENDMS | | | 252L678 | 30 |
| 7205 | 1407 | | CCM6 | LDN | 7 | SET WORD COUNT FOR PROGRAM HEADER READ | 252L678 | 31 |
| 7206 | 3401 | | | STD | T1 | | 1AJ | 10149 |
| 7207 | 3035 | | | LDD | AB+3 | READ PROGRAM HEADER | 1AJ | 10150 |
| 7210 | 1006 | | | SHN | 6 | | 1AJ | 10151 |
| 7211 | 3155 | | | ADD | RA | | 1AJ | 10152 |
| 7212 | 1006 | | | SHN | 6 | | 1AJ | 10153 |

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|------|-----------|------|-------|-----------|------------------------------|---------|-------|
| 7213 | 3136 | | ADD | AB+4 | | 1AJ | 10154 |
| 7214 | 6101 7246 | | CRM | SCRB,T1 | | 1AJ | 10155 |
| 7216 | 2000 7244 | | LDC | SCRB-2 | | 1AJ | 10156 |
| 7220 | 3403 | | STD | T3 | | 1AJ | 10157 |
| 7221 | 0200 6105 | | RJM | SPF | SET PROGRAM FORMAT | 1AJ | 10158 |
| 7223 | 3076 | | LDD | 0A | SET LWA OF LOAD | 1AJ | 10159 |
| 7224 | 6025 | | CRD | CN | | 1AJ | 10160 |
| 7225 | 3030 | | LDD | CN+3 | | 1AJ | 10161 |
| 7226 | 1277 | | LPN | 77 | | 1AJ | 10162 |
| 7227 | 3430 | | STD | CN+3 | | 1AJ | 10163 |
| 7230 | 0100 5033 | | LJM | SLP | SET LOAD PARAMETERS | 1AJ | 10164 |
| | | | | | | 1AJ | 10165 |
| 7232 | 1011 | CCM7 | SHN | 21-10 | | 252L678 | 32 |
| 7233 | 0703 | | PJP | MSR2 | IF MASS STORAGE ERROR | 252L678 | 33 |
| 7236 | 3005 | | LDD | T5 | | 252L678 | 34 |
| 7237 | 0403 | | ZJN | CCM8 | IF CM LOAD | 252L678 | 35 |
| 7240 | 0200 0535 | | ENDMS | | | 252L678 | 36 |
| 7242 | 2000 1512 | CCM8 | LDC | /ERR/EM02 | * FL TOO SHORT FOR PROGRAM.* | 252L678 | 37 |
| 7244 | 0100 4555 | | LJM | LCPX | EXIT | 1AJ | 10171 |

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|------|-------|-------|----------------|-----------------|---------|-------|
| 7246 | SCRB | EQU | * | SCRATCH BUFFER | 1AJ | 10178 |
| 7750 | SCRBL | EQU | SCRB+502 | LWA+1 OF BUFFER | 252L678 | 38 |
| -10 | | ERRPL | SCRBL-7777+5*3 | BUFFER OVERFLOW | 252L678 | 39 |

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|----|------|------|------|--|-------|----------|--|------------------------------------|----------|--|----|
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| 2 | | | | | | | | | | | 2 |
| 3 | | | | | | | | | | | 3 |
| 4 | | | | | | | | | | | 4 |
| 5 | | | ** | PRS - PRESET *3AE* LOAD SUBROUTINES. | | 1AJ | | 10182 | | | 5 |
| 6 | | | * | | | 1AJ | | 10183 | | | 6 |
| 7 | | | * | EXIT (LDOT) = *LDN* INSTRUCTION + ORIGIN TYPE. | | 1AJ | | 10184 | | | 7 |
| 8 | | | * | | | 1AJ | | 10185 | | | 8 |
| 9 | | | * | USES CM - CM+4. | | 1AJ | | 10186 | | | 9 |
| 10 | | | * | | | 1AJ | | 10187 | | | 10 |
| 11 | | | * | CALLS IFP. | | 1AJ | | 10188 | | | 11 |
| 12 | | | * | | | 1AJ | | 10189 | | | 12 |
| 13 | | | * | MACROS SFA. | | 1AJ | | 10190 | | | 13 |
| 14 | | | | | | 1AJ | | 10191 | | | 14 |
| 15 | | | | | | 1AJ | | 10192 | | | 15 |
| 16 | 7246 | 0100 | 7246 | PRS | SUBR | | | ENTRY/EXIT | 1AJ | | 16 |
| 17 | 7250 | 0200 | 7314 | | RJM | IFP | | INITIALIZE *COMP GFP* | 1AJ | | 17 |
| 18 | 7252 | 3074 | | | LDD | CP | | READ EJT ORDINAL WORD | 1AJ | | 18 |
| 19 | 7253 | 1672 | | | ADK | TFSW | | | 1AJ | | 19 |
| 20 | 7254 | 6010 | | | CRD | CM | | | 1AJ | | 20 |
| 21 | 7255 | 3010 | | | SFA | EJT,CM | | SET EJT ADDRESS | 1AJ | | 21 |
| 22 | 7260 | 1603 | | | ADK | //SCLE | | READ JOB ORIGIN TYPE WORD | 1AJ58 | | 22 |
| 23 | 7261 | 6010 | | | CRD | CM | | | 1AJ | | 23 |
| 24 | 7262 | 3010 | | | LDD | CM | | SET JOB ORIGIN TYPE | 1AJ | | 24 |
| 25 | 7263 | 1217 | | | LPN | 17 | | | 1AJ | | 25 |
| 26 | 7264 | 2100 | 1400 | | ADC | LDNI | | FORMAT INSTRUCTION | 1AJ | | 26 |
| 27 | 7266 | 5400 | 5151 | | STM | LDOT | | STORE INSTRUCTION | 1AJ | | 27 |
| 28 | 7270 | 0355 | | | UJN | PRSX | | RETURN | 1AJ | | 28 |
| 29 | | | | | | | | | | | 29 |
| 30 | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | 31 |
| 32 | | | | | | | | | | | 32 |
| 33 | | | ** | ASSEMBLY CONSTANTS FOR COMMON DECKS. | | | | | 1AJ | | 33 |
| 34 | | | | | | | | | 1AJ | | 34 |
| 35 | | | | | | | | | 1AJ | | 35 |
| 36 | | | 1 | EJT\$ | EQU | 1 | | ASSEMBLE EJT ADDRESSING (COMP GFP) | 1AJ | | 36 |
| 37 | | | | | | | | | | | 37 |
| 38 | | | | | | | | | | | 38 |
| 39 | | | | | | | | | | | 39 |
| 40 | | | | | | | | | | | 40 |
| 41 | | | ** | OVERLAID PRESET COMMON DECKS. | | | | | 1AJ | | 41 |
| 42 | | | | | | | | | 1AJ | | 42 |
| 43 | | | | | | | | | 1AJ | | 43 |
| 44 | 7271 | | | | CTEXT | COMP GFP | | - MANAGED TABLE PROCESSOR. | COMP GFP | | 44 |
| 45 | | | | | | | | | | | 45 |
| 46 | | | | | | | | | | | 46 |
| 47 | | | | | | | | | | | 47 |
| 48 | | | | | | | | | | | 48 |
| 49 | | | | | | | | | | | 49 |
| 50 | | | | | | | | | | | 50 |
| 51 | | | | | | | | | | | 51 |
| 52 | | | | | | | | | | | 52 |
| 53 | | | | | | | | | | | 53 |
| 54 | | | | | | | | | | | 54 |
| 55 | | | | | | | | | | | 55 |
| 56 | | | | | | | | | | | 56 |
| 57 | | | | | | | | | | | 57 |
| 58 | | | | | | | | | | | 58 |
| 59 | | | | | | | | | | | 59 |
| 60 | | | | | | | | | | | 60 |

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** ASSEMBLE *COMP GFP* INITIALIZATION CODE.

1AJ 10217
1AJ 10218
1AJ 10219
1AJ 10220

IFP HERE

1AJ 10222
1AJ 10223
1AJ 10224

OVERFLOW OVL,7777

| | | | |
|-----|-------|----------------------|-------------------------------|
| 141 | ERRNG | .2-.1+5-.3/500B*500B | BYTES LEFT AFTER LAST SECTOR |
| 270 | ERRNG | .3/500B*500B-*.1-5 | BYTES LEFT IN LAST SECTOR |
| 270 | ERRNG | .4/500B*500B-*.1-5 | BYTES CAN BE ADDED TO OVERLAY |
| 5 | ERRNG | .3/500B | SECTORS NEEDED FOR OVERLAY |

OVERFLOW.1
OVERFLOW.1
OVERFLOW.1
OVERFLOW.1
OVERFLOW.1
OVERFLOW.1

LIST *

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QUAL 3AF 1AJ 10227
 IDENT 3AF,SEPX SPECIAL ENTRY POINT PROCESSING. 1AJ 10228
 COMMENT 82/02/26. 95/06/23. 1AJ - SPECIAL ENTRY POINT PROCESSING. 1AJ 10229
 COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992. 281L803 11

32 FN EQU AB 1AJ 10232

*** 3AF - SPECIAL ENTRY POINT PROCESSING. 1AJ 10234
 * 1AJ 10235
 * *3AF* CONTAINS SUBROUTINES FOR PROCESSING *DMP=* AND *SSJ=* 1AJ 10236
 * ENTRY POINTS. 1AJ 10237

| | | | | | | | |
|------|------|------|-----|-------------|----------------------|---------|-------|
| 5037 | | | ORG | /TCS/03AF+5 | | 1AJ | 10239 |
| 5037 | 0100 | 5037 | SEP | SUBR | ENTRY/EXIT | 1AJ | 10240 |
| 5041 | 0200 | 6442 | RJM | IFP | INITIALIZE *COMPFGP* | NS2738D | 1 |
| 5043 | 0373 | | UJN | SEPX | RETURN | 1AJ | 10241 |

** RCF - RESTORE CONTROL POINT AREA FIELDS. 1AJ 10243
 * 1AJ 10244
 * ENTRY (A) .NE. 0, IF JOB IS BOTH *SSJ=* AND *DMP=*. 1AJ 10245
 * NO JOB ACTIVITY. 1AJ 10246
 * 1AJ 10247
 * EXIT CONTROL POINT AREA FIELDS RESTORED. 1AJ 10248
 * FILES WITH *SSST* STATUS ARE DROPPED. NS2685 1
 * ABORTED (NO WRITE LOCKOUT) DM* FILE DROPPED. NS2685 2
 * 1AJ 10250
 * CALLS SPR, *0DF*. 1AJ 10251
 * 1AJ 10252
 * USES T1, FA, CM - CM+4, CN - CN+4, CW - CW+4, FS - FS+4. NS2358 17
 * 1AJ 10254
 * MACROS EXECUTE, LDA, MONITOR, NFA. 1AJ 10255
 1AJ 10256
 1AJ 10257

| | | | | | | | | |
|------|------|------|-------|-----|------------|--|-----|-------|
| 5044 | 3074 | | RCF9 | LDD | CP | CLEAR SPECIAL ENTRY POINTS | 1AJ | 10258 |
| 5045 | 2100 | 0105 | | ADC | SEPW | | 1AJ | 10259 |
| 5047 | 6220 | | | CWD | FS | | 1AJ | 10260 |
| 5050 | 1601 | | | ADN | SPCW-SEPW | | 1AJ | 10261 |
| 5051 | 6020 | | | CRD | FS | | 1AJ | 10262 |
| 5052 | 3021 | | | LDD | FS+1 | | 1AJ | 10263 |
| 5053 | 1021 | | | SHN | 21-0 | | 1AJ | 10264 |
| 5054 | 0704 | | | MJN | RCF10 | IF *DMP=*, *SSJ=* JOB CALLED BY *SSJ=* JOB | 1AJ | 10265 |
| 5055 | 3013 | | | LDD | CM+3+SSJD* | CHECK *SSJ=* DROP FILES OPTION | 1AJ | 10266 |
| 5056 | 1014 | | | SHN | 21-5 | | 1AJ | 10267 |
| 5057 | 0703 | | | MJN | RCF11 | IF DROP FILES OPTION | 1AJ | 10268 |
| 5060 | 0100 | 5202 | RCF10 | LJM | RCFX | RETURN | 1AJ | 10269 |

| 5062 | 5600 | 5135 | RCF11 | AOM | RCFA | FLAG DROP FILES OPTION | 1AJ | 10270 |
|------|------|------|---------|---------|----------------|---|--------|-------|
| | | | | | | | 1AJ | 10271 |
| | | | | | | | 1AJ | 10272 |
| | | | * | | | DROP FILES WITH *SSST* STATUS AND ABORTED DM* FILE. | NS2685 | 3 |
| | | | | | | | 1AJ | 10274 |
| 5064 | 3074 | | RCF12 | LDD | CP | READ FL STATUS WORD | 1AJ | 10275 |
| 5065 | 1623 | | | ADN | FLSW | | 1AJ | 10276 |
| 5066 | 6060 | | | CRD | CW | | 1AJ | 10277 |
| 5067 | 3060 | | | LDD | CW | | 1AJ | 10278 |
| 5070 | 1006 | | | SHN | 6 | | 1AJ | 10279 |
| 5071 | 1601 | | | ADN | 1 | | 1AJ | 10280 |
| 5072 | 3460 | | | STD | CW | LWA+1 OF FNT ENTRIES | 1AJ | 10281 |
| 5073 | 2000 | 0324 | | LDC | FNTN | SET FIRST ENTRY | 1AJ | 10282 |
| 5075 | 3425 | | | STD | CN | | NS2358 | 18 |
| 5076 | 1403 | | | LDN | 3 | SET *UNLOAD* AND *ROFT* OPTIONS FOR *ODF* | NS2685 | 4 |
| 5077 | 5400 | 5204 | | STM | ODFL-1 | | NS2358 | 20 |
| 5101 | 3055 | | RCF13 | NFA | CN,R | READ FNT ENTRY | NS2358 | 21 |
| 5104 | 6020 | | | CRD | FS | | 1AJ | 10285 |
| 5105 | 3024 | | | LDD | FS+4 | | 1AJ | 10291 |
| 5106 | 1071 | | | SHN | -6 | | 1AJ | 10292 |
| 5107 | 1107 | | | LMN | ROFT | | 1AJ | 10293 |
| 5110 | 0504 | | | NJN | RCF13.1 | IF NOT ROLLOUT FILE | NS2685 | 5 |
| 5111 | 3023 | | | LDD | FS+3 | CHECK WRITE LOCKOUT | NS2685 | 6 |
| 5112 | 1201 | | | LPN | 1 | | NS2685 | 7 |
| 5113 | 0304 | | | UJN | RCF13.2 | DROP FILE IF NOT WRITE LOCKOUT | NS2685 | 8 |
| | | | | | | | NS2685 | 9 |
| 5114 | 3024 | | RCF13.1 | LDD | FS+4 | CHECK FILE STATUS | NS2685 | 10 |
| 5115 | 1277 | | | LPN | 77 | | NS2685 | 11 |
| 5116 | 1102 | | | LMN | SSST | | NS2685 | 12 |
| 5117 | 0512 | | RCF13.2 | NJN | RCF14 | IF NOT TO DROP FILE | NS2685 | 13 |
| 5120 | 3025 | | | LDD | CN | | NS2358 | 22 |
| 5121 | 3457 | | | STD | FA | SET RELATIVE FNT ADDRESS IN NFL | NS2358 | 23 |
| 5122 | 2000 | 5205 | | EXECUTE | ODF,ODFL | | 1AJ | 10297 |
| 5131 | 1403 | | RCF14 | LDN | LENF | INCREMENT TO NEXT ENTRY | 1AJ | 10298 |
| 5132 | 3525 | | | RAD | CN | | NS2358 | 24 |
| 5133 | 3260 | | | SBD | CW | | 1AJ | 10300 |
| 5134 | 0744 | | | MJN | RCF13 | IF NOT END OF LOCAL FILES | 1AJ | 10301 |
| 5135 | 1400 | | RCFA | LDN | 0 | | 1AJ | 10302 |
| | | | * | LDN | 1 | (NOT *SSJ=* SPECIAL FILES OPTION) | 1AJ | 10303 |
| 5136 | 0505 | | | NJN | RCF15 | IF NOT *SSJ=* SPECIAL FILES OPTION | 1AJ | 10304 |
| 5137 | 3074 | | | LDD | CP | RESTORE VALIDATION PARAMETERS | 1AJ | 10305 |
| 5140 | 1676 | | | ADN | ALMW | | 1AJ | 10306 |
| 5141 | 6373 | 5156 | | CWM | RCFB+ALMS*5,TR | | 1AJ | 10307 |
| 5143 | 0337 | | RCF15 | UJN | RCFX | RETURN | 1AJ | 10308 |
| | | | | | | | 1AJ | 10309 |
| 5144 | | 36 | RCFB | BSS | SSJL*5+1*5 | CONTROL POINT AREA BUFFER | 1AJ | 10310 |
| | | | | | | | 1AJ | 10312 |
| 5202 | 0100 | 5202 | RCF | SUBR | | ENTRY/EXIT | 1AJ | 10313 |
| 5204 | 3401 | | | STD | T1 | JOB IS BOTH *SSJ=* AND *DMP=* FLAG | 1AJ | 10314 |
| 5205 | 3074 | | | LDD | CP | | 1AJ | 10315 |
| 5206 | 1651 | | | ADK | SRUW | CLEAR IGNORE LIMITS FLAG | NS2392 | 1 |
| 5207 | 6060 | | | CRD | CW | | NS2392 | 2 |
| 5210 | 1634 | | | ADK | SEPW-SRUW | | NS2392 | 3 |
| 5211 | 6010 | | | CRD | CM | | 1AJ | 10317 |
| 5212 | 6020 | | | CRD | FS | | 1AJ | 10318 |
| 5213 | 3060 | | | LDD | CW | | NS2392 | 4 |
| 5214 | 1340 | | | SCN | 40 | | NS2392 | 5 |

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|----|------|-----------|------|-----|----------------|--|--------|-------|
| | 5215 | 3460 | | STD | CW | | NS2392 | 6 |
| | 5216 | 3074 | | LDD | CP | | NS2392 | 7 |
| | 5217 | 1651 | | ADK | SRUW | | NS2392 | 8 |
| 1 | 5220 | 6260 | | CWD | CW | | NS2392 | 9 |
| 2 | 5221 | 3020 | | LDD | FS | CLEAR *SSJ=* FLAG | 1AJ | 10319 |
| 3 | 5222 | 1304 | | SCN | 4 | | 1AJ | 10320 |
| 4 | 5223 | 3420 | | STD | FS | | 1AJ | 10321 |
| 5 | 5224 | 3001 | | LDD | T1 | | 1AJ | 10322 |
| 6 | 5225 | 0503 | | NJN | RCF1 | IF JOB IS BOTH *SSJ=* AND *DMP=* | 1AJ | 10323 |
| 7 | 5226 | 1466 | | LDN | ZERL | JOB IS ONLY *SSJ=*, CLEAR *SEPW* | 1AJ | 10324 |
| 8 | 5227 | 6020 | | CRD | FS | | 1AJ | 10325 |
| 9 | 5230 | 1405 | RCF1 | LDN | SSJL | | 1AJ | 10326 |
| 10 | 5231 | 3401 | | STD | T1 | | 1AJ | 10327 |
| 11 | 5232 | 3013 | | LDD | CM+3+SSJP* | CHECK IF *SSJ=* BLOCK PRESENT | 1AJ | 10328 |
| 12 | 5233 | 1237 | | LPN | 37 | | 1AJ | 10329 |
| 13 | 5234 | 3114 | | ADD | CM+4 | | 1AJ | 10330 |
| 14 | 5235 | 0503 | | NJN | RCF2 | IF *SSJ=* BLOCK PRESENT | 1AJ | 10331 |
| 15 | 5236 | 0100 5044 | | LJM | RCF9 | NO *SSJ=* BLOCK PRESENT | 1AJ | 10332 |
| 16 | | | | | | | 1AJ | 10333 |
| 17 | 5240 | 3074 | RCF2 | LDD | CP | | 1AJ | 10334 |
| 18 | 5241 | 2100 0106 | | ADC | SPCW | | 1AJ | 10335 |
| 19 | 5243 | 6025 | | CRD | CN | | 1AJ | 10336 |
| 20 | 5244 | 3026 | | LDD | CN+1 | | 1AJ | 10337 |
| 21 | 5245 | 1021 | | SHN | 21-0 | | 1AJ | 10338 |
| 22 | 5246 | 0605 | | PJN | RCF3 | IF NOT DMP=/SSJ= JOB CALLED BY SSJ= JOB | 1AJ | 10339 |
| 23 | 5247 | 3055 | | NFA | SSDN | RESTORE *DMP=* PARAMETERS | 1AJ | 10340 |
| 24 | 5252 | 0304 | | UJN | RCF4 | RESTORE PARAMETERS | 1AJ | 10341 |
| 25 | | | | | | | 1AJ | 10342 |
| 26 | 5253 | 3055 | RCF3 | NFA | SSJN | | 1AJ | 10343 |
| 27 | 5256 | 6101 5144 | RCF4 | CRM | RCFB,T1 | | 1AJ | 10344 |
| 28 | 5260 | 3074 | | LDD | CP | READ USER IDENTIFICATION | NS2323 | 219 |
| 29 | 5261 | 1670 | | ADN | UIDW | USER IDENTIFICATION | 1AJ | 10364 |
| 30 | 5262 | 6370 5151 | | CWM | RCFB+UIDS*5,ON | | 1AJ | 10365 |
| 31 | 5264 | 1614 | | ADN | SEPW-UIDW-1 | CLEAR SPECIAL ENTRY POINTS | 1AJ | 10366 |
| 32 | 5265 | 6220 | | CWD | FS | | 1AJ | 10367 |
| 33 | 5266 | 5000 5150 | | LDM | RCFB+4 | CHECK SUBSYSTEM IDENTIFICATION | 1AJ | 10368 |
| 34 | 5270 | 2177 0031 | | SBK | LSSI+1 | | 1AJ | 10369 |
| 35 | 5272 | 0604 | | PJN | RCF7 | IF SUBSYSTEM | 1AJ | 10370 |
| 36 | 5273 | 1400 | | LDN | 0 | SET END OF JOB STEP | 1AJ | 10371 |
| 37 | 5274 | 0200 6025 | | RJM | SPR | SET PRIORITIES | 1AJ | 10372 |
| 38 | 5276 | 3074 | RCF7 | LDD | CP | READ SPECIAL CALL WORD | 1AJ35 | 1 |
| 39 | 5277 | 2100 0106 | | ADC | SPCW | | 1AJ | 10374 |
| 40 | 5301 | 6010 | | CRD | CM | | 1AJ | 10375 |
| 41 | 5302 | 3011 | | LDD | CM+1 | | 1AJ | 10376 |
| 42 | 5303 | 1021 | | SHN | 21-0 | | 1AJ | 10377 |
| 43 | 5304 | 0703 | | MJN | RCF8 | IF *DMP=*, *SSJ=* JOB CALLED BY *SSJ=* JOB | 1AJ | 10378 |
| 44 | 5305 | 0100 5064 | | LJM | RCF12 | DROP ALL FILES WITH SPECIAL FILE STATUS | 1AJ35 | 2 |
| 45 | | | | | | | 1AJ | 10380 |
| 46 | 5307 | 0100 5202 | RCF8 | LJM | RCFX | RETURN | 1AJ | 10381 |

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|------|------|-------|----------------|-------|--------------|--------|-------|
| 5205 | ODFL | EQU | RCF+2 | *0DF* | LOAD ADDRESS | NS2358 | 26 |
| 770 | | ERRNG | BFMS-ODFL-ZDFL | | | 1AJ | 10383 |

| | | | | | | | | |
|----|------|-----------|------|--|--------------------------------|---------|-------|----|
| 1 | | | | | | | | 1 |
| 2 | | | | | | | | 2 |
| 3 | | | | | | | | 3 |
| 4 | | ** | | PSR - PROCESS SPECIAL PROCESSOR REQUEST. | | 1AJ | 10385 | 4 |
| 5 | | * | | | | 1AJ | 10386 | 5 |
| 6 | | * | | PROCESSES *DMP=* REQUEST. | | 1AJ | 10387 | 6 |
| 7 | | * | | | | 1AJ | 10388 | 7 |
| 8 | | * | | ENTRY (AB - AB+1) = PST ADDRESS. | | 1AJ | 10389 | 8 |
| 9 | | * | | | | 1AJ | 10390 | 9 |
| 10 | | * | | EXIT TO *CSR10* IF *SPCW* CALL ERROR. | | 1AJ | 10391 | 10 |
| 11 | | * | | TO *DPP* IF ERROR FLAG SET. | | 1AJ | 10392 | 11 |
| 12 | | * | | TO *CPP* TO ROLLOUT JOB. | | 1AJ | 10393 | 12 |
| 13 | | * | | | | 1AJ | 10394 | 13 |
| 14 | | * | | USES AB - AB+4, CM - CM+4, CN - CN+4, FS - FS+4, | | 1AJ | 10395 | 14 |
| 15 | | * | | SP - SP+4, T1 - T6. | | 1AJ | 10396 | 15 |
| 16 | | * | | | | 1AJ | 10397 | 16 |
| 17 | | * | | CALLS *1R0*. | | 1AJ | 10398 | 17 |
| 18 | | * | | | | 1AJ | 10399 | 18 |
| 19 | | * | | MACROS DELAY, EXECUTE, MONITOR, PAUSE. | | 1AJ | 10400 | 19 |
| 20 | | | | | | 1AJ | 10401 | 20 |
| 21 | | | | | | 1AJ | 10402 | 21 |
| 22 | 5311 | | PSR | BSS 0 | ENTRY | 1AJ | 10403 | 22 |
| 23 | 5311 | 3033 | | LDD AB+1 | SET PST ADDRESS | 1AJ | 10404 | 23 |
| 24 | 5312 | 1014 | | SHN 14 | | 1AJ | 10405 | 24 |
| 25 | 5313 | 3334 | | LMD AB+2 | | 1AJ | 10406 | 25 |
| 26 | 5314 | 6010 | | CRD CM | READ LIBRARY CONTROL WORD | 1AJ | 10407 | 26 |
| 27 | 5315 | 1601 | | ADN 1 | READ SPECIAL ENTRY POINT WORD | 1AJ | 10408 | 27 |
| 28 | 5316 | 6025 | | CRD CN | | 1AJ | 10409 | 28 |
| 29 | 5317 | 3011 | | LDD CM+1 | CHECK CONTROL WORD FLAGS | 1AJ | 10410 | 29 |
| 30 | 5320 | 1011 | | SHN 21-10 | | 1AJ | 10411 | 30 |
| 31 | 5321 | 0604 | | PJN PSR1 | IF NO SPECIAL ENTRY POINTS | 1AJ | 10412 | 31 |
| 32 | 5322 | 3025 | | LDD CN | CHECK FOR *DMP=* ENTRY POINT | 1AJ | 10413 | 32 |
| 33 | 5323 | 1015 | | SHN 21-4 | | 1AJ | 10414 | 33 |
| 34 | 5324 | 0724 | | MJN PSR3 | IF *DMP=* PRESENT | 1AJ | 10415 | 34 |
| 35 | 5325 | 0100 1470 | PSR1 | LJM CSR10 | ISSUE SPCW CALL ERROR | 1AJ | 10416 | 35 |
| 36 | | | | | | 1AJ | 10417 | 36 |
| 37 | 5327 | 3074 | PSR2 | LDD CP | | 1AJ | 10418 | 37 |
| 38 | 5330 | 1672 | | ADN TERW | | 1AJ | 10419 | 38 |
| 39 | 5331 | 6025 | | CRD CN | | 1AJ | 10420 | 39 |
| 40 | 5332 | 6032 | | CRD AB | | 1AJ | 10421 | 40 |
| 41 | 5333 | 1400 | | LDN 0 | | 1AJ | 10422 | 41 |
| 42 | 5334 | 3435 | | STD AB+3 | | 1AJ | 10423 | 42 |
| 43 | 5335 | 3436 | | STD AB+4 | | 1AJ | 10424 | 43 |
| 44 | 5336 | 3034 | | LDD AB+2 | | 1AJ | 10425 | 44 |
| 45 | 5337 | 1377 | | SCN 77 | | 1AJ | 10426 | 45 |
| 46 | 5340 | 3434 | | STD AB+2 | | 1AJ | 10427 | 46 |
| 47 | 5341 | 3074 | | LDD CP | | 1AJ | 10428 | 47 |
| 48 | 5342 | 1672 | | ADN TERW | | 1AJ | 10429 | 48 |
| 49 | 5343 | 6232 | | CWD AB | | 1AJ | 10430 | 49 |
| 50 | 5344 | 3030 | | LDD CN+3 | POSITION *DMP=* PARAMETER | 1AJ | 10431 | 50 |
| 51 | 5345 | 3427 | | STD CN+2 | | 1AJ | 10432 | 51 |
| 52 | 5346 | 3031 | | LDD CN+4 | | 1AJ | 10433 | 52 |
| 53 | 5347 | 3430 | | STD CN+3 | | 1AJ | 10434 | 53 |
| 54 | 5350 | 3074 | PSR3 | LDD CP | READ FIELD LENGTH STATUS WORDS | 271L750 | 104 | 54 |
| 55 | | | | | | | | 55 |
| 56 | | | | | | | | 56 |
| 57 | | | | | | | | 57 |
| 58 | | | | | | | | 58 |
| 59 | | | | | | | | 59 |
| 60 | | | | | | | | 60 |

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| 5351 | 1623 | | ADN | FLSW | | 271L750 | 105 | |
| 5352 | 6020 | | CRD | FS | | 1AJ | 10439 | |
| 5353 | 1602 | | ADN | ECSW-FLSW | | 1AJ | 10440 | |
| 5354 | 6002 | | CRD | T2 | | 1AJ | 10441 | |
| 5355 | 1601 | | ADN | JCIW-ECSW | READ JOB CONTROL WORD | 271L750 | 106 | |
| 5356 | 6040 | | CRD | SP | | 271L750 | 107 | |
| 5357 | 1657 | | ADN | SEPW-JCIW | READ SPECIAL ENTRY POINT WORDS | 271L750 | 108 | |
| 5360 | 6001 | | CRD | T1 | | 1AJ | 10443 | |
| 5361 | 1610 | | ADN | PPDW-SEPW | READ PP DUMP WORD | NS2287 | 1 | |
| 5362 | 6032 | | CRD | AB | | 1AJ | 10447 | |
| 5363 | 3006 | | LDD | T2+4 | | 1AJ | 10448 | |
| 5364 | 3433 | | STD | AB+1 | | 1AJ | 10449 | |
| | | | | | | 1AJ | 10450 | |
| | | | * | CHECK FOR SPECIAL CASE WHEN SUBSYSTEM REDUCES ITS FL BELOW | | | 1AJ | 10451 |
| | | | * | *MCMX* AND EXTENDED MEMORY IS ASSIGNED. | | | V23L617 | 804 |
| | | | | | | 1AJ | 10453 | |
| 5365 | 2000 0100 | | LDC | MCMX/100 | | 1AJ | 10454 | |
| 5367 | 3407 | | STD | T7 | | 1AJ | 10455 | |
| 5370 | 3042 | | LDD | SP+2 | CHECK SSID | 1AJ | 10456 | |
| 5371 | 2177 0031 | | SBK | LSSI+1 | | 1AJ | 10457 | |
| 5373 | 0735 | | MJN | PSR6 | IF NOT SUBSYSTEM | 1AJ | 10458 | |
| 5374 | 3006 | | LDD | T2+4 | | 1AJ | 10459 | |
| 5375 | 0433 | | ZJN | PSR6 | IF NO EXTENDED MEMORY ASSIGNED | V23L617 | 805 | |
| 5376 | 3024 | | LDD | FS+4 | | 1AJ | 10461 | |
| 5377 | 3207 | | SBD | T7 | | 1AJ | 10462 | |
| 5400 | 0630 | | PJN | PSR6 | IF ENOUGH FL | 1AJ | 10463 | |
| 5401 | 5000 0255 | PSR4 | DELAY | | | 1AJ | 10464 | |
| 5405 | 1400 | | PAUSE | | | 1AJ | 10465 | |
| 5413 | 3011 | | LDD | CM+1 | | 1AJ | 10466 | |
| 5414 | 0403 | | ZJN | PSR5 | IF NO ERROR FLAG | 1AJ | 10467 | |
| 5415 | 0100 1571 | | LJM | DPP | DROP PP | 1AJ | 10468 | |
| | | | | | | 1AJ | 10469 | |
| 5417 | 3412 | PSR5 | STD | CM+2 | REQUEST FL | 1AJ | 10470 | |
| 5420 | 3007 | | LDD | T7 | | 1AJ | 10471 | |
| 5421 | 3411 | | STD | CM+1 | | 1AJ | 10472 | |
| 5422 | 3424 | | STD | FS+4 | | 1AJ | 10473 | |
| 5423 | 1417 | | MONITOR | RSTM | | 1AJ | 10474 | |
| 5426 | 3011 | | LDD | CM+1 | | 1AJ | 10475 | |
| 5427 | 0551 | | NJN | PSR4 | IF FL NOT AVAILABLE | 1AJ | 10476 | |
| 5430 | 3074 | PSR6 | LDD | CP | | NS2287 | 2 | |
| 5431 | 2100 0106 | | ADK | SPCW | | NS2287 | 3 | |
| 5433 | 6010 | | CRD | CM | | NS2287 | 4 | |
| 5434 | 3024 | | LDD | FS+4 | | NS2287 | 5 | |
| 5435 | 3434 | | STD | AB+2 | | 1AJ | 10478 | |
| 5436 | 3011 | | LDD | CM+1 | SET *DMP=* ACTIVE AND *1R0* CALLED | 1AJ | 10479 | |
| 5437 | 1343 | | SCN | 43 | | 1AJ | 10480 | |
| 5440 | 1142 | | LMN | 42 | | 1AJ | 10481 | |
| 5441 | 3411 | | STD | CM+1 | | 1AJ | 10482 | |
| 5442 | 3010 | | LDD | CM | | 1AJ | 10483 | |
| 5443 | 1177 | | LMN | 77 | | 1AJ | 10484 | |
| 5444 | 0405 | | ZJN | PSR7 | IF COMMAND *DMP=* CALL | V23L617 | 806 | |
| 5445 | 3001 | | LDD | T1 | | 1AJ | 10486 | |
| 5446 | 1017 | | SHN | 21-2 | | 1AJ | 10487 | |
| 5447 | 0602 | | PJN | PSR7 | IF NOT CALLED BY *SSJ=* JOB | 1AJ | 10488 | |
| 5450 | 3611 | | AOD | CM+1 | SET CALLED BY *SSJ=* JOB FLAG | 1AJ | 10489 | |
| 5451 | 3074 | PSR7 | LDD | CP | WRITE SPECIAL CALL WORD | 1AJ | 10490 | |
| 5452 | 2100 0106 | | ADC | SPCW | | 1AJ | 10491 | |

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| 5454 | 6210 | CWD | CM | | | 1AJ | 10492 |
| 5455 | 1607 | ADN | PPDW-SPCW | WRITE PPU DUMP WORD | | 1AJ | 10493 |
| 5456 | 6232 | CWD | AB | | | 1AJ | 10494 |
| 5457 | 1401 | LDN | 1 | *DMP=* FUNCTION | | 1AJ | 10495 |
| 5460 | 3452 | STD | IR+2 | | | 1AJ | 10496 |
| 5461 | 3030 | LDD | CN+3 | SET *DMP=* PARAMETER | | 1AJ | 10497 |
| 5462 | 1377 | SCN | 77 | | | 1AJ | 10498 |
| 5463 | 1006 | SHN | 6 | | | 1AJ | 10499 |
| 5464 | 3327 | LMD | CN+2 | | | 1AJ | 10500 |
| 5465 | 1006 | SHN | 6 | | | 1AJ | 10501 |
| 5466 | 3454 | STD | IR+4 | | | 1AJ | 10502 |
| 5467 | 1063 | SHN | -14 | | | 1AJ | 10503 |
| 5470 | 3453 | STD | IR+3 | | | 1AJ | 10504 |
| 5471 | 1456 | MONITOR | DCPM | | | 1AJ | 10505 |
| 5474 | 3011 | LDD | CM+1 | | | 1AJ | 10506 |
| 5475 | 0414 | ZJN | PSR8 | IF NO CPU ACTIVITY | | 1AJ | 10507 |
| | | * | | THE FOLLOWING CODE IS NEEDED ONLY FOR CALLS FROM *DIS* | | 1AJ | 10508 |
| | | * | | LIKE PROCESSORS. | | 1AJ | 10509 |
| | | | | | | 1AJ | 10510 |
| | | | | | | 1AJ | 10511 |
| 5476 | 1401 | LDN | 1 | SET CPU ACTIVITY | | 1AJ | 10512 |
| 5477 | 3411 | STD | CM+1 | | | 1AJ | 10513 |
| 5500 | 1400 | LDN | 0 | | | 1AJ | 10514 |
| 5501 | 3412 | STD | CM+2 | | | 1AJ | 10515 |
| 5502 | 3077 | LDD | MA | | | 1AJ | 10516 |
| 5503 | 6370 5515 | CWM | PSRA,ON | | | 1AJ | 10517 |
| 5505 | 2000 0114 | MONITOR | UADM | UPDATE CONTROL POINT AREA WORD | | 1AJ | 10518 |
| 5511 | 2034 2217 | PSR8 | EXECUTE | 1R0,* | | 1AJ | 10519 |
| 5513 | 0100 1255 | LJM | CPP | CALL *1R0* | | 1AJ | 10520 |
| | | | | | | 1AJ | 10521 |
| | | * | | *UADM* PARAMETERS. | | 1AJ | 10522 |
| | | | | | | 1AJ | 10523 |
| | | | | | | 1AJ | 10524 |
| 5515 | 0100 | PSRA | CON | CSFS | SET CONTROL POINT AREA FIELD | 1AJ | 10525 |
| 5516 | 0020 | | CON | STSW | WORD CONTAINING FIELD | 1AJ | 10526 |
| 5517 | 3101 | | CON | 25D*100+1 | POSITION AND WIDTH OF FIELD | 1AJ71 | 2 |
| 5520 | 0000 | | CON | 0 | | 1AJ | 10528 |
| 5521 | 0001 | | CON | 1 | SET FIELD TO 1 | 1AJ | 10529 |
| | | | | | | | |
| | | ** | | RFJ - RESET FORMER JOB. | | 1AJ | 10531 |
| | | * | | | | 1AJ | 10532 |
| | | * | | ENTRY IF *DMP=* JOB TO BE RESTARTED. | | 1AJ | 10533 |
| | | * | | | | 1AJ | 10534 |
| | | * | | EXIT TO */TCS/ CPP* TO CALL *1RI* FOR *DMP=* ROLLIN. | | 1AJ | 10535 |
| | | * | | TO */TCS/DPP* TO DROP PP. | | 1AJ | 10536 |
| | | * | | | | 1AJ | 10537 |
| | | * | | USES T1, CM - CM+4, CN - CN+4, FN - FN+4, FS - FS+4. | | 1AJ | 10538 |
| | | * | | | | 1AJ | 10539 |
| | | * | | CALLS /TCS/RQS, SAF, *1RI*. | | NS2578 | 11 |
| | | * | | | | 1AJ | 10541 |
| | | * | | MACROS EXECUTE, NFA, SFA. | | NS2738C | 2 |
| | | | | | | 1AJ | 10543 |
| | | | | | | 1AJ | 10544 |
| 5522 | | RFJ | BSS | 0 | ENTRY | NS2738C | 3 |

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|------|-----------|------|-----|-----------|-------------------------------|--------|-------|
| 5522 | 3074 | | LDD | CP | | 1AJ | 10546 |
| 5523 | 2100 0106 | | ADC | SPCW | | 1AJ | 10547 |
| 5525 | 6025 | | CRD | CN | | 1AJ | 10548 |
| 5526 | 1701 | | SBN | SPCW-SEPW | | 1AJ | 10549 |
| 5527 | 6010 | | CRD | CM | | 1AJ | 10550 |
| 5530 | 3012 | | LDD | CM+2 | CHECK FOR RESTART | 1AJ | 10551 |
| 5531 | 1006 | | SHN | 21-13 | | 1AJ | 10552 |
| 5532 | 0735 | | MJN | RFJ3 | IF RESTART | 1AJ | 10553 |
| 5533 | 3053 | | LDD | IR+3 | CHECK PARAMETER BLOCK MOVED | 1AJ | 10554 |
| 5534 | 1101 | | LMN | 1 | | 1AJ | 10555 |
| 5535 | 0430 | | ZJN | RFJ2 | IF PARAMETER BLOCK MOVED | 1AJ | 10556 |
| 5536 | 3056 | | LDD | FL | | 1AJ | 10557 |
| 5537 | 0426 | | ZJN | RFJ2 | IF NO FL | 1AJ | 10558 |
| 5540 | 1401 | | LDN | 1 | | 1AJ | 10559 |
| 5541 | 3401 | | STD | T1 | | 1AJ | 10560 |
| 5542 | 3026 | | LDD | CN+1 | | 1AJ | 10561 |
| 5543 | 1016 | | SHN | 21-3 | | 1AJ | 10562 |
| 5544 | 0707 | | MJN | RFJ1 | IF NO PARAMETER BLOCK | 1AJ | 10563 |
| 5545 | 3030 | | LDD | CN+3 | | 1AJ | 10564 |
| 5546 | 1237 | | LPN | 37 | | 1AJ | 10565 |
| 5547 | 3131 | | ADD | CN+4 | | 1AJ | 10566 |
| 5550 | 0403 | | ZJN | RFJ1 | IF NO PARAMETER BLOCK ADDRESS | 1AJ | 10567 |
| 5551 | 1421 | | LDN | DMP1 | PROCESS *DMP=* COMPLETION | NS2334 | 1 |
| 5552 | 3401 | | STD | T1 | | 1AJ | 10569 |
| 5553 | | RFJ1 | BSS | 0 | | 1AJ | 10570 |
| 5553 | 3055 | | LDD | RA | MOVE PARAMETER BLOCK | 1AJ | 10571 |
| 5554 | 1006 | | SHN | 6 | | 1AJ | 10572 |
| 5555 | 1627 | | ADN | SPPR | | 1AJ | 10573 |
| 5556 | 6101 6441 | | CRM | BUF,T1 | | 1AJ | 10574 |
| 5560 | 3055 | | NFA | DMPN | STORE PARAMETER BLOCK | 1AJ | 10575 |
| 5563 | 6301 6441 | | CWM | BUF,T1 | | 1AJ | 10576 |
| 5565 | 3012 | | LDD | CM+2 | | 1AJ | 10577 |
| 5566 | 1006 | | SHN | 21-13 | | 1AJ | 10578 |
| 5567 | 0721 | | MJN | RFJ4 | IF RESTART | 1AJ | 10579 |
| 5570 | 3074 | | LDD | CP | | 1AJ | 10580 |
| 5571 | 2100 0115 | | ADC | PPDW | PPU DUMP WORD | 1AJ | 10581 |
| 5573 | 6032 | | CRD | FN | | 1AJ | 10582 |
| 5574 | 3034 | | LDD | FN+2 | SET FL | 1AJ | 10583 |
| 5575 | 5400 3471 | | STM | /TCS/RQSD | | 1AJ | 10584 |
| 5577 | 3033 | | LDD | FN+1 | SET FLE | 1AJ | 10585 |
| 5600 | 5400 3476 | | STM | /TCS/RQSE | | 1AJ | 10586 |
| 5602 | 5600 3437 | | AOM | /TCS/RQSA | FLAG *DMP=* PROCESSING | 1AJ | 10587 |
| 5604 | 1401 | | LDN | 1 | FLAG PARAMETER BLOCK MOVED | 1AJ | 10588 |
| 5605 | 3453 | | STD | IR+3 | | 1AJ | 10589 |
| 5606 | 0200 3436 | | RJM | /TCS/RQS | REQUEST STORAGE | 1AJ | 10590 |
| 5610 | 1466 | | LDN | ZERL | | 1AJ | 10591 |
| 5611 | 6032 | | CRD | FN | | 1AJ | 10592 |
| 5612 | 2047 0415 | | LDC | 3R*DM | FIND *DMP=* FILE | 1AJ | 10593 |
| 5614 | 3432 | | STD | FN | | 1AJ | 10594 |
| 5615 | 1071 | | SHN | -6 | | 1AJ | 10595 |
| 5616 | 1377 | | SCN | 77 | | 1AJ | 10596 |
| 5617 | 3433 | | STD | FN+1 | | 1AJ | 10597 |
| 5620 | 0200 6374 | | RJM | SAF | SEARCH FOR ASSIGNED FILE | NS2578 | 12 |
| 5622 | 3057 | | LDD | FA | | 1AJ | 10599 |
| 5623 | 0531 | | NJN | RFJ6 | IF FILE FOUND | 1AJ | 10600 |
| 5624 | 1466 | | LDN | ZERL | | 1AJ | 10601 |
| 5625 | 6020 | | CRD | FS | | 1AJ | 10602 |

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| | 5626 | 3074 | | LDD | CP | | 1AJ | 10603 |
| | 5627 | 2100 0105 | | ADC | SEPW | CLEAR ENTRY POINTS | 1AJ | 10604 |
| | 5631 | 6220 | | CWD | FS | | 1AJ | 10605 |
| 1 | 5632 | 1601 | | ADN | SPCW-SEPW | CLEAR SPECIAL CALL | 1AJ | 10606 |
| 2 | 5633 | 6220 | | CWD | FS | | 1AJ | 10607 |
| 3 | 5634 | 3045 | | SFA | EJT,JO | | NS2738C | 4 |
| 4 | 5637 | 1601 | | ADK | SCHE | | NS2738C | 5 |
| 5 | 5640 | 6010 | | CRD | CM | | NS2738C | 6 |
| 6 | 5641 | 3012 | | LDD | CM+2 | | NS2738C | 7 |
| 7 | 5642 | 2200 7377 | | LPC | 7377 | CLEAR *DMP=* ROLLOUT COMPLETE | NS2738C | 8 |
| 8 | 5644 | 3412 | | STD | CM+2 | | NS2738C | 9 |
| 9 | 5645 | 3045 | | SFA | EJT,JO | | NS2738C | 10 |
| 10 | 5650 | 1601 | | ADK | SCHE | | NS2738C | 11 |
| 11 | 5651 | 6210 | | CWD | CM | | NS2738C | 12 |
| 12 | 5652 | 0100 1234 | | LJM | /TCS/DPP | DROP PPU | 1AJ | 10608 |
| 13 | | | | | | | 1AJ | 10609 |
| 14 | 5654 | 3454 | RFJ6 | STD | IR+4 | | 1AJ | 10610 |
| 15 | 5655 | 3055 | | NFA | FA,R | | 1AJ | 10611 |
| 16 | 5660 | 1601 | | ADN | FSTL | | 1AJ | 10612 |
| 17 | 5661 | 6032 | | CRD | FN | CHECK FST ENTRY | 1AJ | 10613 |
| 18 | 5662 | 3034 | | LDD | FN+2 | | 1AJ | 10614 |
| 19 | 5663 | 0440 | | ZJN | RFJ5 | IF FILE NOT USED | 1AJ | 10615 |
| 20 | 5664 | 1401 | | LDN | 1 | | 1AJ | 10616 |
| 21 | 5665 | 3452 | | STD | IR+2 | | 1AJ | 10617 |
| 22 | 5666 | 2034 2211 | | EXECUTE | 1RI,* | | 1AJ | 10618 |
| 23 | 5670 | 0100 1242 | | LJM | /TCS/CP | CALL *1RI* | 1AJ | 10619 |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | ** | SDP | - START-UP | *DMP=* JOB. | 1AJ | 10621 |
| 29 | | | * | | | | 1AJ | 10622 |
| 30 | | | * | ENTRY | UPON RETURN FROM | *1RO* AT *DMP=* ROLLOUT COMPLETION. | 1AJ | 10623 |
| 31 | | | * | | | | 1AJ | 10624 |
| 32 | | | * | USES | T1, T2, CN - CN+4. | | 1AJ | 10625 |
| 33 | | | * | | | | 1AJ | 10626 |
| 34 | | | * | CALLS | TCA. | | 1AJ | 10627 |
| 35 | | | * | | | | 1AJ | 10628 |
| 36 | | | * | MACROS | MONITOR, NFA. | | 1AJ | 10629 |
| 37 | | | | | | | 1AJ | 10630 |
| 38 | | | | | | | 1AJ | 10631 |
| 39 | 5672 | 5000 1254 | SDP | LDM | /TCS/CSEB | | 1AJ | 10632 |
| 40 | 5674 | 1017 | | SHN | 21-2 | | 1AJ | 10633 |
| 41 | 5675 | 0603 | | PJN | SDP1 | IF NO *SSJ=* | 1AJ | 10634 |
| 42 | 5676 | 0200 6121 | | RJM | TCA | TRANSFER CONTROL POINT AREAS | 1AJ | 10635 |
| 43 | 5700 | 1420 | SDP1 | LDN | DMPL-1 | | NS2334 | 2 |
| 44 | 5701 | 3401 | | STD | T1 | | 1AJ | 10637 |
| 45 | 5702 | 3074 | | LDD | CP | | 1AJ | 10638 |
| 46 | 5703 | 2100 0105 | | ADC | SEPW | SET ENTRY POINTS | 1AJ | 10639 |
| 47 | 5705 | 6010 | | CRD | CM | GET PREVIOUS PROGRAM SPECIAL ENTRY POINTS | 1AJ | 10640 |
| 48 | 5706 | 6370 1254 | | CWM | /TCS/CSEB,ON | | 1AJ | 10641 |
| 49 | 5710 | 1600 | | ADN | SPCW-SEPW-1 | STORE CALL WORD | 1AJ | 10642 |
| 50 | 5711 | 3402 | | STD | T2 | | 1AJ | 10643 |
| 51 | 5712 | 6025 | | CRD | CN | | 1AJ | 10644 |
| 52 | 5713 | 6170 6441 | | CRM | BUF,ON | | 1AJ | 10645 |
| 53 | 5715 | 3055 | | NFA | DMPN | | 1AJ | 10646 |
| 54 | 5720 | 6101 6446 | | CRM | BUF+5,T1 | | 1AJ | 10647 |

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| | 5722 | 3026 | | LDD | CN+1 | CLEAR *1R0* CALLED | 1AJ | 10648 |
| | 5723 | 1302 | | SCN | 2 | | 1AJ | 10649 |
| | 5724 | 3426 | | STD | CN+1 | | 1AJ | 10650 |
| 1 | 5725 | 1400 | | LDN | 0 | CLEAR FIRST PARAMETER | 1AJ | 10651 |
| 2 | 5726 | 3427 | | STD | CN+2 | | 1AJ | 10652 |
| 3 | 5727 | 3030 | | LDD | CN+3 | | 1AJ | 10653 |
| 4 | 5730 | 1277 | | LPN | 77 | | 1AJ | 10654 |
| 5 | 5731 | 3430 | | STD | CN+3 | | 1AJ | 10655 |
| 6 | 5732 | 3002 | | LDD | T2 | | 1AJ | 10656 |
| 7 | 5733 | 6225 | | CWD | CN | | 1AJ | 10657 |
| 8 | 5734 | 1466 | | LDN | ZERL | | 1AJ | 10658 |
| 9 | 5735 | 6025 | | CRD | CN | | 1AJ | 10659 |
| 10 | 5736 | 5000 | 6442 | LDM | BUF+1 | CLEAR *SSJ=* PARAMETER BLOCK FLAG | 1AJ | 10660 |
| 11 | 5740 | 1302 | | SCN | 2 | | 1AJ | 10661 |
| 12 | 5741 | 5400 | 6442 | STM | BUF+1 | | 1AJ | 10662 |
| 13 | 5743 | 3013 | | LDD | CM+3 | CHECK IF *SSJ=* BLOCK DEFINED | 1AJ | 10663 |
| 14 | 5744 | 1237 | | LPN | 37 | | 1AJ | 10664 |
| 15 | 5745 | 3114 | | ADD | CM+4 | | 1AJ | 10665 |
| 16 | 5746 | 0404 | | ZJN | SDP2 | IF NO *SSJ=* PARAMETER BLOCK | 1AJ | 10666 |
| 17 | 5747 | 1402 | | LDN | 2 | SET *SSJ=* PARAMETER BLOCK FLAG | 1AJ | 10667 |
| 18 | 5750 | 5500 | 6442 | RAM | BUF+1 | | 1AJ | 10668 |
| 19 | 5752 | 5000 | 1256 | SDP2 | LDM | /TCS/CSEB+2 CHECK IF *OVERRIDE REQUIRED* BIT NEEDED | NS2266 | 20 |
| 20 | 5754 | 1007 | | SHN | 21-12 | | NS2266 | 21 |
| 21 | 5755 | 0614 | | PJN | SDP3 | IF *OVERRIDE REQUIRED* BIT NOT TO BE SET | NS2266 | 22 |
| 22 | 5756 | 3074 | | LDD | CP | SET *OVERRIDE REQUIRED* BIT | NS2266 | 23 |
| 23 | 5757 | 1630 | | ADN | SNSW | | NS2266 | 24 |
| 24 | 5760 | 6010 | | CRD | CM | | NS2266 | 25 |
| 25 | 5761 | 3010 | | LDD | CM | | NS2266 | 26 |
| 26 | 5762 | 2200 | 6777 | LPC | 6777 | | NS2266 | 27 |
| 27 | 5764 | 3372 | | LMD | TH | | NS2266 | 28 |
| 28 | 5765 | 3410 | | STD | CM | | NS2266 | 29 |
| 29 | 5766 | 3074 | | LDD | CP | | NS2266 | 30 |
| 30 | 5767 | 1630 | | ADN | SNSW | | NS2266 | 31 |
| 31 | 5770 | 6210 | | CWD | CM | | NS2266 | 32 |
| 32 | 5771 | 5000 | 1256 | SDP3 | LDM | /TCS/CSEB+2 CHECK FOR IGNORE RESOURCE LIMIT LOAD | NS2392 | 10 |
| 33 | 5773 | 1012 | | SHN | 21-7 | | NS2392 | 11 |
| 34 | 5774 | 0613 | | PJN | SDP4 | IF RESOURCE LIMITS NOT TO BE IGNORED | NS2392 | 12 |
| 35 | 5775 | 3074 | | LDD | CP | SET IGNORE RESOURCE LIMITS FLAG | NS2392 | 13 |
| 36 | 5776 | 1651 | | ADK | SRUW | | NS2392 | 14 |
| 37 | 5777 | 6010 | | CRD | CM | | NS2392 | 15 |
| 38 | 6000 | 3010 | | LDD | CM | | NS2392 | 16 |
| 39 | 6001 | 1340 | | SCN | 40 | | NS2392 | 17 |
| 40 | 6002 | 1140 | | LMN | 40 | | NS2392 | 18 |
| 41 | 6003 | 3410 | | STD | CM | | NS2392 | 19 |
| 42 | 6004 | 3074 | | LDD | CP | | NS2392 | 20 |
| 43 | 6005 | 1651 | | ADK | SRUW | | NS2392 | 21 |
| 44 | 6006 | 6210 | | CWD | CM | | NS2392 | 22 |
| 45 | 6007 | 3601 | | SDP4 | AOD | T1 | NS2392 | 23 |
| 46 | 6010 | 3055 | | LDD | RA | | 1AJ | 10670 |
| 47 | 6011 | 1006 | | SHN | 6 | | 1AJ | 10671 |
| 48 | 6012 | 1601 | | ADN | 1 | CLEAR SYSTEM REQUEST | V23L617 | 807 |
| 49 | 6013 | 6225 | | CWD | CN | | 1AJ | 10673 |
| 50 | 6014 | 1626 | | ADN | SPPR-1 | SET PARAMETER BLOCK | 1AJ | 10674 |
| 51 | 6015 | 6301 | 6441 | CWM | BUF,T1 | | 1AJ | 10675 |
| 52 | 6017 | 1471 | | MONITOR | RCPM | REQUEST CPU | 1AJ | 10676 |
| 53 | 6022 | 0100 | 1234 | LJM | /TCS/DPP | DROP PP | 1AJ | 10677 |

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| | ** | | | | SPR - SET PRIORITIES. | | 1AJ | 10679 |
| | * | | | | | | 1AJ | 10680 |
| | * | | | | ENTRY (RCFB - RCFB+4) *SSJ=* PRIORITY VALUES. | | 1AJ | 10681 |
| | * | | | | (A) = 1, IF BEGINNING OF JOB STEP. | | 1AJ | 10682 |
| | * | | | | (A) = 0, IF END OF JOB STEP. | | 1AJ | 10683 |
| | * | | | | | | 1AJ | 10684 |
| | * | | | | EXIT PRIORITIES SET ACCORDING TO VALUES. | | 1AJ | 10685 |
| | * | | | | | | 1AJ | 10687 |
| | * | | | | USES T1, CM - CM+4. | | NS2731A | 1 |
| | * | | | | | | 1AJ | 10689 |
| | * | | | | MACROS MONITOR. | | 1AJ | 10690 |
| | | | | | | | 1AJ | 10691 |
| | | | | | | | 1AJ | 10692 |
| | | | | | | | 1AJ | 10693 |
| 11 | | 6024 | 0100 6024 | SPR | SUBR | ENTRY/EXIT | | |
| 12 | | 6026 | 3401 | | STD T1 | SAVE BEGIN/END JOB STEP STATUS | NS2731A | 2 |
| | | | | | | | NS2731A | 3 |
| | * | | | | PROCESS SUBSYSTEM ID. | | NS2731A | 4 |
| | | | | | | | NS2731A | 5 |
| 16 | | 6027 | 0511 | | NJN SPR1 | IF AT BEGINNING OF JOB STEP | 1AJ | 10694 |
| 17 | | 6030 | 5000 5150 | | LDM RCFB+4 | GET *SSID* FROM *SSJ=* BLOCK | 1AJ | 10698 |
| 18 | | 6032 | 3414 | | STD CM+4 | | 1AJ | 10699 |
| 19 | | 6033 | 1702 | | SBN IRSI+1 | | 1AJ | 10700 |
| 20 | | 6034 | 0710 | | MJN SPR2 | IF NOT *IRSI* OR *UJSI* | 1AJ | 10701 |
| 21 | | 6035 | 1401 | | LDN IRSI | INHIBIT ROLLOUT | 1AJ | 10702 |
| 22 | | 6036 | 3414 | | STD CM+4 | | 1AJ | 10703 |
| 23 | | 6037 | 0305 | | UJN SPR2 | CHANGE SUBSYSTEM ID | NS2731A | 6 |
| | | | | | | | 1AJ | 10707 |
| 25 | | 6040 | 5000 5150 | SPR1 | LDM RCFB+4 | GET *SSID* FROM *SSJ=* BLOCK | 1AJ | 10708 |
| 26 | | 6042 | 0410 | | ZJN SPR3 | IF NO *SSID* SPECIFIED | 1AJ | 10709 |
| 27 | | 6043 | 3414 | | STD CM+4 | | 1AJ | 10710 |
| 28 | | 6044 | 1404 | SPR2 | LDN SSIS | FORM *SET SSID* REQUEST | 1AJ | 10711 |
| 29 | | 6045 | 3411 | | STD CM+1 | | 1AJ | 10712 |
| 30 | | 6046 | 2000 0105 | | MONITOR SJCM | SET JOB CONTROL | 1AJ | 10713 |
| | | | | | | | NS2731A | 7 |
| | * | | | | PROCESS CPU PRIORITY. | | NS2731A | 8 |
| | | | | | | | NS2731A | 9 |
| 34 | | 6052 | 5000 5147 | SPR3 | LDM RCFB+3 | | 1AJ | 10714 |
| 35 | | 6054 | 0503 | | NJN SPR3.1 | IF TO SET FIXED CPU PRIORITY | NS2731A | 10 |
| 36 | | 6055 | 3001 | | LDD T1 | | NS2731A | 11 |
| 37 | | 6056 | 0510 | | NJN SPR4 | IF BEGINNING OF JOB STEP | NS2731A | 12 |
| 38 | | | | * | LDN 0 | RESTORE SERVICE CLASS CPU PRIORITY | NS2731A | 13 |
| 39 | | 6057 | 3414 | SPR3.1 | STD CM+4 | SET NEW CPU PRIORITY | NS2731 | 1 |
| 40 | | 6060 | 1400 | | LDN CPRS | CHANGE CPU PRIORITY | NS2731 | 4 |
| 41 | | 6061 | 3411 | | STD CM+1 | | 1AJ | 10718 |
| 42 | | 6062 | 2000 0105 | | MONITOR SJCM | | 1AJ | 10719 |
| | | | | | | | NS2731A | 14 |
| | * | | | | PROCESS TIME LIMIT. | | NS2731A | 15 |
| | | | | | | | NS2731A | 16 |
| 46 | | 6066 | 5000 5146 | SPR4 | LDM RCFB+2 | CHECKING TIME LIMIT = INFINITE | 1AJ | 10720 |
| 47 | | 6070 | 3414 | | STD CM+4 | | 1AJ | 10721 |
| 48 | | 6071 | 5100 5145 | | ADM RCFB+1 | | 1AJ | 10722 |
| 49 | | 6073 | 0423 | | ZJN SPR7 | IF NO CHANGE IN TIME LIMIT | 1AJ | 10723 |
| 50 | | 6074 | 5000 5145 | | LDM RCFB+1 | | 1AJ | 10724 |
| 51 | | 6076 | 3413 | | STD CM+3 | | 1AJ | 10725 |
| 52 | | 6077 | 1707 | | SBN 7 | CHECK TIME LIMIT .GE. 70000B | 1AJ | 10726 |
| 53 | | 6100 | 0711 | | MJN SPR6 | IF TIME LIMIT .LT. 70000B | 1AJ | 10727 |
| 54 | | 6101 | 0505 | | NJN SPR5 | IF TIME LIMIT .GT. 77777B | 1AJ | 10728 |

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| 6102 | 3014 | | LDD | CM+4 | | 1AJ | 10729 | |
| 6103 | 2177 0007 | | ADC | -7770 | | 1AJ | 10730 | |
| 6105 | 0704 | | MJN | SPR6 | IF TIME LIMIT .LT. 77770B | 1AJ | 10731 | |
| 6106 | 1500 | SPR5 | LCN | 0 | SET INFINITE TIME LIMIT | 1AJ | 10732 | |
| 6107 | 3413 | | STD | CM+3 | | 1AJ | 10733 | |
| 6110 | 3414 | | STD | CM+4 | | 1AJ | 10734 | |
| 6111 | 1404 | SPR6 | LDN | RLTL | SET TIME LIMIT SUBFUNCTION | 1AJ | 10735 | |
| 6112 | 3411 | | STD | CM+1 | | 1AJ | 10736 | |
| 6113 | 1475 | | MONITOR | RLMM | | 1AJ | 10737 | |
| 6116 | 0100 6024 | SPR7 | LJM | SPRX | RETURN | 1AJ | 10738 | |
| ** TCA - TRANSFER CONTROL POINT AREA FIELDS (*SSJ=*) . | | | | | | | 1AJ | 10740 |
| * ENTRY (CSEB - CSEB+4) SPECIAL ENTRY POINT WORD. | | | | | | | 1AJ | 10741 |
| * USES T1, CM - CM+4, CN - CN+4. | | | | | | | 1AJ | 10742 |
| * CALLS SPR. | | | | | | | 1AJ | 10743 |
| * MACROS NFA. | | | | | | | 1AJ | 10744 |
| * MACROS NFA. | | | | | | | 1AJ | 10745 |
| * MACROS NFA. | | | | | | | 1AJ | 10746 |
| * MACROS NFA. | | | | | | | 1AJ | 10747 |
| * MACROS NFA. | | | | | | | 1AJ | 10748 |
| * MACROS NFA. | | | | | | | 1AJ | 10749 |
| * MACROS NFA. | | | | | | | 1AJ | 10750 |
| 6120 | 0100 6120 | TCA | SUBR | | ENTRY/EXIT | 1AJ | 10751 | |
| 6122 | 5000 1257 | | LDM | /TCS/CSEB+3 | | 1AJ | 10752 | |
| 6124 | 1237 | | LPN | 37 | | 1AJ | 10753 | |
| 6125 | 5100 1260 | | ADM | /TCS/CSEB+4 | | 1AJ | 10754 | |
| 6127 | 0470 | | ZJN | TCAX | IF NO PARAMETER BLOCK | 1AJ | 10755 | |
| 6130 | 1405 | | LDN | SSJL | | 1AJ | 10756 | |
| 6131 | 3401 | | STD | T1 | | 1AJ | 10757 | |
| 6132 | 3074 | | LDD | CP | | 1AJ | 10758 | |
| 6133 | 1621 | | ADN | CWQW | | 271L750 | 109 | |
| 6134 | 6025 | | CRD | CN | | 271L750 | 110 | |
| 6135 | 1605 | | ADN | JCIW-CWQW | | 271L750 | 111 | |
| 6136 | 6170 5153 | | CRM | RCFB+SPPS*5+1*5+2,ON | | 271L750 | 112 | |
| 6140 | 1632 | | ADN | CPJW-JCIW-1 | | NS22000 | 253 | |
| 6141 | 6010 | | CRD | CM | | NS22000 | 254 | |
| 6142 | 3026 | | LDD | CN+1 | | NS2731 | 5 | |
| 6143 | 1066 | | SHN | -11 | | NS2731 | 6 | |
| 6144 | 1201 | | LPN | 1 | | NS2731 | 7 | |
| 6145 | 0405 | | ZJN | TCA0.1 | IF CPU PRIORITY SET FROM SERVICE CLASS | NS2731A | 17 | |
| 6146 | 3025 | | LDD | CN | SET CPU PRIORITY | 271L750 | 113 | |
| 6147 | 1074 | | SHN | -3 | | 271L750 | 114 | |
| 6150 | 2200 0177 | | LPC | 177 | | 271L716 | 20 | |
| 6152 | 5400 5154 | TCA0.1 | STM | RCFB+SPPS*5+1*5+3 | | NS2731 | 10 | |
| 6154 | 3012 | | LDD | CM+2 | MOVE JOB STEP TIME LIMIT | NS22000 | 257 | |
| 6155 | 1377 | | SCN | 77 | | NS22000 | 258 | |
| 6156 | 1006 | | SHN | 6 | | NS22000 | 259 | |
| 6157 | 3311 | | LMD | CM+1 | | NS22000 | 260 | |
| 6160 | 1006 | | SHN | 6 | | NS22000 | 261 | |
| 6161 | 5400 5153 | | STM | RCFB+SPPS*5+1*5+2 | | NS22000 | 262 | |
| 6163 | 1063 | | SHN | -14 | | NS22000 | 263 | |
| 6164 | 5400 5152 | | STM | RCFB+SPPS*5+1*5+1 | | NS22000 | 264 | |
| 6166 | 3074 | | LDD | CP | READ USER IDENTIFICATION | 1AJ | 10768 | |
| 6167 | 1670 | | ADN | UIDW | | 1AJ | 10769 | |

TCA

3AF

| | | | | | | | | |
|------|------|------|--------|-----|---|--|-------|-------|
| 6170 | 6170 | 5156 | | CRM | RCFB+UIDS*5+1*5,ON | | 1AJ | 10770 |
| 6172 | 1605 | | | ADN | ALMW-UIDW-1 | | 1AJ | 10771 |
| 6173 | 6173 | 5163 | | CRM | RCFB+ALMS*5+5,TR VALIDATION PARAMETERS | | 1AJ | 10772 |
| 6175 | 1605 | | | ADN | SPCW-ALMW-3 | | 1AJ | 10773 |
| 6176 | 6025 | | | CRD | CN | | 1AJ | 10774 |
| 6177 | 5000 | 1257 | TCA1 | LDM | /TCS/CSEB+3 | | 1AJ | 10783 |
| 6201 | 1237 | | | LPN | 37 | | 1AJ | 10784 |
| 6202 | 1006 | | | SHN | 6 | | 1AJ | 10785 |
| 6203 | 3155 | | | ADD | RA | | 1AJ | 10786 |
| 6204 | 1006 | | | SHN | 6 | | 1AJ | 10787 |
| 6205 | 5100 | 1260 | | ADM | /TCS/CSEB+4 | | 1AJ | 10788 |
| 6207 | 6170 | 5144 | | CRM | RCFB,ON RETRIEVE PRIORITY PARAMETERS | | 1AJ | 10789 |
| 6211 | 1701 | | | SBN | 1 | | 1AJ | 10790 |
| 6212 | 6301 | 5151 | | CWM | RCFB+1*5,T1 STORE ACCOUNT PARAMETERS | | 1AJ | 10791 |
| 6214 | 3026 | | | LDD | CN+1 | | 1AJ | 10792 |
| 6215 | 1021 | | | SHN | 21-0 | | 1AJ | 10793 |
| 6216 | 0705 | | | MJN | TCA1.5 IF DMP=/SSJ= JOB CALLED BY SSJ= JOB | | 1AJ | 10794 |
| 6217 | 3055 | | | NFA | SSJN | | 1AJ | 10795 |
| 6222 | 0304 | | | UJN | TCA1.8 STORE PARAMETERS | | 1AJ | 10796 |
| | | | | | | | 1AJ | 10797 |
| 6223 | 3055 | | TCA1.5 | NFA | SSDN | | 1AJ | 10798 |
| 6226 | 6301 | 5151 | TCA1.8 | CWM | RCFB+1*5,T1 STORE ACCOUNT PARAMETERS | | 1AJ | 10799 |
| 6230 | 5000 | 5164 | | LDM | RCFB+ALMS*5+1*5+1 | | 1AJ | 10800 |
| 6232 | 1207 | | | LPN | 7 RETAIN ORIGINAL INDEX VALUE | | 1AJ | 10801 |
| 6233 | 5500 | 6303 | | RAM | TCAC+1 | | 1AJ | 10802 |
| 6235 | 5000 | 5173 | | LDM | RCFB+ACLS*5+1*5+3 SAVE USER DETACH LIMIT | | 1AJ41 | 1 |
| 6237 | 1377 | | | SCN | 77 | | 1AJ41 | 2 |
| 6240 | 5500 | 6312 | | RAM | TCAD+3 | | 1AJ41 | 3 |
| 6242 | 3074 | | | LDD | CP | | 1AJ | 10803 |
| 6243 | 1626 | | | ADN | JCIW GET SSID | | 1AJ | 10804 |
| 6244 | 6025 | | | CRD | CN | | 1AJ | 10805 |
| 6245 | 1642 | | | ADN | UIDW-JCIW | | 1AJ | 10806 |
| 6246 | 6370 | 6275 | | CWM | TCAB,ON SET USER INDEX TO 377777 (SYUI) | | 1AJ | 10807 |
| 6250 | 1605 | | | ADN | ALMW-UIDW-1 | | 1AJ | 10808 |
| 6251 | 6370 | 6302 | | CWM | TCAC,ON -0 TO ALL LIMITS EXCEPT LOCAL FILE LIMIT | | 1AJ | 10809 |
| 6253 | 6370 | 6307 | | CWM | TCAD,ON -0 TO ALL LIMITS EXCEPT USER DETACH LIMIT | | 1AJ41 | 4 |
| 6255 | 6370 | 6270 | | CWM | TCAA,ON | | 1AJ | 10811 |
| 6257 | 3027 | | | LDD | CN+2 | | 1AJ | 10812 |
| 6260 | 2177 | 0031 | | SBK | LSSI+1 | | 1AJ | 10813 |
| 6262 | 0604 | | | PJN | TCA2 IF SUBSYSTEM | | 1AJ | 10814 |
| 6263 | 1401 | | | LDN | 1 SET BEGINNING OF JOB STEP | | 1AJ | 10815 |
| 6264 | 0200 | 6025 | | RJM | SPR SET PRIORITIES | | 1AJ | 10816 |
| 6266 | 0100 | 6120 | TCA2 | LJM | TCAX RETURN | | 1AJ | 10817 |
| | | | | | | | 1AJ | 10818 |
| | | | | | | | 1AJ | 10819 |
| 6270 | 7777 | | TCAA | VFD | 60/-0 | | 1AJ | 10820 |
| 6271 | 7777 | | | | | | | |
| 6272 | 7777 | | | | | | | |
| 6273 | 7777 | | | | | | | |
| 6274 | 7777 | | | | | | | |
| 6275 | 2331 | | TCAB | VFD | 42/0LSYSTEMX,18//PFM/SYUI | | 1AJ | 10821 |
| 6276 | 2324 | | | | | | | |
| 6277 | 0515 | | | | | | | |
| 6300 | 3037 | | | | | | | |
| 6301 | 7777 | | | | | | | |
| 6302 | 7777 | | TCAC | VFD | 21/-0,3/0,36/-0 | | 1AJ | 10822 |
| 6303 | 7770 | | | | | | | |

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6304 7777
 6305 7777
 6306 7777
 6307 7777
 6310 7777
 6311 7777
 6312 0077
 6313 7777

TCAD VFD 36/-0,6/0,18/-0 *ACLW*

1AJ41 5

** IDP - INITIALIZE *DMP=* PROGRAM LOAD ON SYSTEM REQUEST CALL.
 * ENTRY IF *DMP=* CP PROGRAM TO BE LOADED.
 * EXIT TO */TCS/TCS2* TO LOAD PROGRAM.
 * CALL /TCS/IPL.

V23L617 808
 1AJ 10825
 1AJ 10826
 1AJ 10827
 NS2268A 6
 1AJ92 108
 1AJ92 109
 1AJ 10829
 1AJ 10830

6314 2000 0457 IDP LDC ZJNI+77+/TCS/SCL15-/TCS/SCLB
 6316 5400 1437 STM /TCS/SCLB
 6320 2000 0100 LDC LJMI
 6322 5400 1742 STM /TCS/BCPD
 6324 2000 2227 LDC /TCS/BCP22
 6326 5400 1743 STM /TCS/BCPD+1
 6330 3033 LDD AB+1 SET PROGRAM NAME
 6331 1377 SCN 77
 6332 3433 STD AB+1
 6333 1400 LDN 0
 6334 3434 STD AB+2
 6335 3435 STD AB+3
 6336 5400 1104 STM /TCS/TCSA ALLOW DMP= EVEN IF CHARGE REQUIRED
 6340 1500 LCN 0 PRESERVE OVERRIDE-REQUIRED FLAG
 6341 5400 3007 STM /TCS/IPLC
 6343 0200 2750 RJM /TCS/IPL INITIALIZE PROGRAM LOAD
 6345 0100 1111 LJM /TCS/TCS2 LOAD PROGRAM

1AJ 10831
 1AJ 10832
 1AJ 10833
 1AJ 10834
 1AJ 10835
 1AJ 10836
 1AJ 10837
 1AJ 10838
 1AJ 10839
 1AJ 10840
 1AJ 10841
 1AJ 10842
 1AJ86 1
 1AJ9 3
 1AJ9 4
 1AJ92 110
 1AJ 10843
 1AJ 10844
 1AJ 10845

* COMMON DECKS.

NS2578 13
 NS2578 14
 NS2578 15
 NS2738D 2
 COMPGFP 1
 COMPSAF 1
 NS2578 17
 NS2578 18

1 EJT\$ EQU 1 ASSEMBLE EJT ADDRESSING
 CTEXT COMPGFP - MANAGED TABLE PROCESSOR.
 CTEXT COMPSAF - SEARCH FOR ASSIGNED FILE.

6347
6371

6441 BUF BSS 0 PARAMETER BLOCK BUFFER
 IFP HERE ASSEMBLE *COMPGFP* INITIALIZATION CODE

1AJ 10846
 NS2738D 4
 NS2738D 5
 NS2738D 6
 NS2738D 7
 NS2334 3

6566

IFLT *,BUF+DMPL*5,1
 ORG BUF+DMPL*5 LWA OF OVERLAY

1AJ 10848
 1AJ 10849
 1AJ 10850

OVERFLOW /TCS/03AF

1412THE

| | | | | | |
|---|------|-------|----------------------|-------------------------------|------------|
| 1 | 1053 | ERRNG | .2-.1+5-.3/500B*500B | BYTES LEFT AFTER LAST SECTOR | OVERFLOW.1 |
| 2 | 137 | ERRNG | .3/500B*500B-*.1-5 | BYTES LEFT IN LAST SECTOR | OVERFLOW.1 |
| 3 | 637 | ERRNG | .4/500B*500B-*.1-5 | BYTES CAN BE ADDED TO OVERLAY | OVERFLOW.1 |
| 4 | 3 | ERRNG | .3/500B | SECTORS NEEDED FOR OVERLAY | OVERFLOW.1 |

LIST *

| | | | | | |
|----|--|--|--|--|------------|
| 5 | | | | | OVERFLOW.1 |
| 6 | | | | | OVERFLOW.1 |
| 7 | | | | | OVERFLOW.1 |
| 8 | | | | | OVERFLOW.1 |
| 9 | | | | | OVERFLOW.1 |
| 10 | | | | | OVERFLOW.1 |
| 11 | | | | | OVERFLOW.1 |
| 12 | | | | | OVERFLOW.1 |
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| 58 | | | | | OVERFLOW.1 |
| 59 | | | | | OVERFLOW.1 |
| 60 | | | | | OVERFLOW.1 |

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QUAL 3AG 1AJ 10852
 IDENT 3AG,RJFX RETURN JOB STEP FILES. NS2719 31
 COMMENT 82/02/26. 95/06/23. 1AJ - RETURN JOB STEP FILES. NS2719 32
 COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992. 281L803 12

*** 3AG - RETURN JOB STEP FILES. NS2719 33
 * NS2358 27
 * *3AG* RETURNS ALL FILES WITH USER PRIVACY STATUS AND FILES NS2719 34
 * WHICH HAVE BEEN PARTIALLY RETURNED BY *1AJ* OR ANOTHER PP. NS2719 35
 * PARTIALLY RETURNED FILES ARE MASS STORAGE OR TAPE FILES FOR NS2719 36
 * WHICH THE MASS STORAGE OR TAPE RESOURCE HAS BEEN RETURNED BUT NS2719 37
 * FURTHER PROCESSING SUCH AS UPDATING THE RESOURCE DEMAND FILE NS2719 38
 * COULD NOT BE COMPLETED BECAUSE OF A RECOVERABLE MASS STORAGE NS2719 39
 * ERROR. IF A DEVICE INACCESSIBLE ERROR IS RETURNED BY *0DF*, NS2719 40
 * *1AJ* WILL GO INTO RECALL AND ADVANCEMENT TO THE NEXT JOB NS2719 41
 * STEP WILL BE INHIBITED UNTIL ALL USER PRIVACY AND PARTIALLY NS2719 42
 * RETURNED FILES HAVE BEEN RETURNED. NS2719 43

** RJF - RETURN JOB STEP FILES. NS2719 45
 * 1AJ 10858
 * EXIT TO CALLER IF NO REMAINING USER PRIVACY FILES OR NS2719 46
 * INCOMPLETELY RETURNED FILES REMAINING. NS2719 47
 * TO *1RJ* TO RECALL *1AJ* IF INACCESSIBLE DEVICE ERROR NS2719 48
 * RETURNED BY *0DF*. NS2719 49
 * NS2719 50
 * USES FA, IR+4, CM - CM+4, CW - CW+4, FS - FS+4. NS2719 51
 * NS2719 52
 * CALLS CFS, *0DF*. NS2719 53
 * 1AJ 10860
 * MACROS EXECUTE, MONITOR, NFA. 1AJ 10861

| | | | | | | | |
|------|------|------|------|------|------------|--------|-------|
| 2300 | | | ORG | E1AJ | | NS2719 | 54 |
| 2300 | 0100 | 2300 | RJF | SUBR | ENTRY/EXIT | NS2719 | 55 |
| 2302 | 3074 | | | LDD | CP | 1AJ | 10875 |
| 2303 | 1623 | | | ADN | FLSW | 1AJ | 10876 |
| 2304 | 6060 | | | CRD | CW | 1AJ | 10877 |
| 2305 | 3060 | | | LDD | CW | 1AJ | 10878 |
| 2306 | 1006 | | | SHN | 6 | 1AJ | 10879 |
| 2307 | 1601 | | | ADN | 1 | 1AJ | 10880 |
| 2310 | 3460 | | | STD | CW | 1AJ | 10881 |
| 2311 | 2000 | 0324 | | LDC | FNTN | 1AJ | 10882 |
| 2313 | 3461 | | | STD | CW+1 | NS2358 | 37 |
| 2314 | 1400 | | | LDN | 0 | NS2719 | 56 |
| 2315 | 3462 | | | STD | CW+2 | NS2719 | 57 |
| 2316 | 1401 | | | LDN | 1 | NS2358 | 38 |
| 2317 | 5400 | 2450 | | STM | ODFL-1 | NS2358 | 39 |
| 2321 | 1403 | | RJF2 | LDN | LENF | NS2719 | 58 |
| 2322 | 3561 | | | RAD | CW+1 | NS2358 | 41 |
| 2323 | 3260 | | | SBD | CW | NS2358 | 42 |

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|------|-----------|------|---------|-----------|--|--------|----|
| 2324 | 0631 | | PJN | RJF3 | IF END OF LOCAL FILE FNT | NS2719 | 59 |
| 2325 | 3055 | | NFA | CW+1,R | | NS2358 | 44 |
| | | | ADK | FNTL | READ FILE NAME | NS2719 | 60 |
| 2330 | 6010 | | CRD | CM | | NS2719 | 61 |
| 2331 | 1601 | | ADK | FSTL-FNTL | READ FILE STATUS | NS2719 | 62 |
| 2332 | 6020 | | CRD | FS | | NS2719 | 63 |
| 2333 | 3010 | | LDD | CM | | NS2358 | 46 |
| 2334 | 0464 | | ZJN | RJF2 | IF EMPTY ENTRY | NS2719 | 64 |
| 2335 | 0200 2407 | | RJM | CFS | CHECK FILE STATUS | NS2719 | 65 |
| 2337 | 0561 | | NJN | RJF2 | IF NOT FILE TO BE RETURNED | NS2719 | 66 |
| 2340 | 3061 | | LDD | CW+1 | | NS2358 | 52 |
| 2341 | 3457 | | STD | FA | SET RELATIVE FNT ADDRESS IN NFL | NS2358 | 53 |
| 2342 | 2000 2451 | | EXECUTE | 0DF,ODFL | | NS2358 | 54 |
| 2351 | 0447 | | ZJN | RJF2 | IF FILE RETURNED | NS2719 | 67 |
| 2352 | 3005 | | LDD | T5 | SET INACCESSIBLE DEVICE EST ORDINAL | NS2719 | 68 |
| 2353 | 3462 | | STD | CW+2 | | NS2719 | 69 |
| 2354 | 0344 | | UJN | RJF2 | CHECK NEXT FILE | NS2719 | 70 |
| | | | | | | NS2358 | 64 |
| | | * | | | CLEAR JOB STEP FILE CONTROL FLAGS IF ALL FILES RETURNED. | NS2719 | 71 |
| | | | | | | NS2719 | 72 |
| 2355 | 3062 | RJF3 | LDD | CW+2 | | NS2719 | 73 |
| 2356 | 0513 | | NJN | RJF4 | IF INACCESSIBLE DEVICE ERROR | NS2719 | 74 |
| 2357 | 1406 | | LDN | SPMS+RPMS | SET JOB STEP PRIVATE FILES FLAGS | NS2719 | 75 |
| 2360 | 3414 | | STD | CM+4 | | NS2719 | 76 |
| 2361 | 1403 | | LDN | CCTS | SET TO CLEAR CONTROL FLAGS | NS2719 | 77 |
| 2362 | 3411 | | STD | CM+1 | | NS2719 | 78 |
| 2363 | 2000 0105 | | MONITOR | SJCM | CLEAR CONTROL FLAGS | NS2719 | 79 |
| 2367 | 0100 2300 | | LJM | RJFX | RETURN | NS2719 | 80 |
| | | | | | | NS2719 | 81 |
| | | * | | | RECALL *1AJ* ON INACCESSIBLE DEVICE ERROR. | NS2719 | 82 |
| | | | | | | NS2719 | 83 |
| 2371 | 3454 | RJF4 | STD | IR+4 | SET EST ORDINAL OF INACCESSIBLE DEVICE | NS2719 | 84 |
| 2372 | 1400 | | LDN | 0 | CLEAR JOB ADVANCE | NS2358 | 67 |
| 2373 | 3411 | | STD | CM+1 | | NS2358 | 68 |
| 2374 | 1463 | | MONITOR | JACM | | NS2358 | 69 |
| 2377 | 2034 2212 | | EXECUTE | 1RJ | RECALL *1AJ* | NS2719 | 85 |
| | | | | | | | |
| | | | | | | | |
| | | ** | | | CFS - CHECK FILE STATUS. | NS2358 | 73 |
| | | * | | | | NS2358 | 74 |
| | | * | | | ENTRY (CM - CM+4) = LOCAL FNT ENTRY *FNTL* WORD. | NS2719 | 86 |
| | | * | | | (FS - FS+4) = LOCAL FNT ENTRY *FSTL* WORD. | NS2719 | 87 |
| | | * | | | | NS2358 | 76 |
| | | * | | | EXIT (A) = 0 IF FILE TO BE RETURNED. | NS2719 | 88 |
| | | * | | | | NS2719 | 89 |
| | | * | | | USES T3 - T3+4. | NS2719 | 90 |
| | | | | | | NS2358 | 78 |
| | | | | | | NS2719 | 91 |
| 2403 | 3021 | CFS3 | LDD | FS+1 | | NS2719 | 92 |
| 2404 | 0434 | | ZJN | CFS1 | IF NULL TRACK FIELD | NS2719 | 93 |
| 2405 | 1064 | | SHN | 0-13 | | NS2719 | 94 |
| | | | | | | NS2358 | 79 |
| 2406 | 0100 2406 | CFS | SUBR | | ENTRY/EXIT | NS2358 | 80 |
| 2410 | 3014 | | LDD | CM+4 | | NS2358 | 81 |
| 2411 | 1277 | | LPN | 77 | ISOLATE STATUS FIELD | NS2358 | 82 |

| | | | | | | | |
|------|------|------|-----|-----------|-------------------------------------|---------|-----|
| 2412 | 1101 | | LMN | UPST | | NS2358 | 83 |
| 2413 | 0472 | | ZJN | CFSX | IF USER PRIVACY STATUS | NS2719 | 95 |
| 2414 | 3020 | | SFA | EST,FS | READ EST ENTRY | NS2358 | 105 |
| | | | ADK | EQDE | | NS2358 | 106 |
| 2417 | 6003 | | CRD | T3 | | NS2358 | 107 |
| 2420 | 3003 | | LDD | T3 | CHECK DEVICE TYPE | NS2358 | 108 |
| 2421 | 1006 | | SHN | 21-13 | | NS2358 | 109 |
| 2422 | 0760 | | MJN | CFS3 | IF MASS STORAGE | NS2719 | 96 |
| 2423 | 3006 | | LDD | T3+3 | | NS2358 | 111 |
| 2424 | 2300 | 1624 | LMC | 2RNT | | NS2358 | 113 |
| 2426 | 0415 | | ZJN | CFS2 | IF *NT* (9 TRACK TAPE) | NS2719 | 97 |
| 2427 | 2300 | 0300 | LMC | 2RMT&2RNT | | NS2358 | 115 |
| 2431 | 0412 | | ZJN | CFS2 | IF *MT* (7 TRACK TAPE) | NS2719 | 98 |
| 2432 | 2300 | 1600 | LMC | 2RCT&2RMT | | 274L797 | 1 |
| 2434 | 0407 | | ZJN | CFS2 | IF *CT* (CARTRIDGE TAPE) | 274L797 | 2 |
| 2435 | 2300 | 0200 | LMC | 2RAT&2RCT | | 274L797 | 3 |
| 2437 | 0404 | | ZJN | CFS2 | IF *AT* (ACS CARTRIDGE TAPE) | 274L797 | 4 |
| 2440 | 2300 | 2521 | LMC | 2RTE&2RAT | | 274L797 | 5 |
| 2442 | 0543 | | NJN | CFSX | IF NOT *TE* (TAPE PSEUDO EQUIPMENT) | NS2719 | 100 |
| 2443 | 3024 | | LDD | FS+4 | | NS2719 | 101 |
| 2444 | 1204 | | LPN | 4 | EXTRACT DEMAND FILE ERROR FLAG | NS2358 | 120 |
| 2445 | 1104 | | LMN | 4 | | NS2358 | 121 |
| 2446 | 0100 | 2406 | UJP | CFSX | RETURN | NS2719 | 102 |

| | | | | | | | | |
|--|--|------|------|-------|----------------|-----------------------|--------|-------|
| | | 2451 | ODFL | EQU | **+1 | *ODF* LOAD ADDRESS | NS2358 | 124 |
| | | 3524 | | ERRNG | BFMS-ODFL-ZDFL | CHECK LENGTH OF *ODF* | 1AJ | 10903 |

1412THE

QUAL 3AH
 IDENT 3AH,PCLX *CLB=* ENTRY POINT PROCESSING.
 COMMENT 82/02/26. 95/06/23. 1AJ - *CLB=* ENTRY POINT PROCESSING.
 COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.

1AJ 10905
 NS22000 273
 NS22000 274
 281L803 13

*** 3AH - PROCESS *CLB=* ENTRY POINT. NS22000 276

5037 ORG /TCS/03AF+5 1AJ 10910

** PCL - PROCESS COMMAND LINE. 1AJ 10912
 * 1AJ 10913
 * ENTRY (*TINW*, BITS 35-18) = RELATIVE ADDRESS OF *CLB=* FET. 1AJ 10914
 * (FL-100B) = WORD COUNT FOLLOWED BY 1AJ 10915
 * COMMAND LINE TEXT. 1AJ 10916
 * 1AJ 10917
 * EXIT (TINW, BITS 35-18) = ZERO. 1AJ 10918
 * COMMAND LINE TEXT IN INPUT BUFFER. 1AJ 10919
 * 1AJ 10920
 * USES T1, T2, T3, T4, CM-CM+4, CN-CN+4. 1AJ 10921
 * 1AJ 10922
 * MACROS MONTIOR. 1AJ 10923

| Address | Offset | Label | Operation | Comment | 1AJ | Offset |
|---------|--------|-------|--------------|--------------------------|---------|--------|
| 5037 | 0100 | 5037 | PCL | SUBR ENTRY/EXIT | 1AJ | 10926 |
| 5041 | 3074 | | LDD CP | GET ADDRESS OF FET | 1AJ | 10927 |
| 5042 | 1671 | | ADN TINW | | 1AJ | 10928 |
| 5043 | 6025 | | CRD CN | | 1AJ | 10929 |
| 5044 | 3027 | | LDD CN+2 | SAVE FET ADDRESS | 1AJ | 10930 |
| 5045 | 1014 | | SHN 14 | | 1AJ | 10931 |
| 5046 | 3401 | | STD T1 | | 1AJ | 10932 |
| 5047 | 3413 | | STD CM+3 | | 271L716 | 21 |
| 5050 | 3330 | | LMD CN+3 | | 1AJ | 10934 |
| 5051 | 1071 | | SHN -6 | | 1AJ | 10935 |
| 5052 | 3402 | | STD T2 | | 1AJ | 10936 |
| 5053 | 3414 | | STD CM+4 | | 271L716 | 22 |
| 5054 | 1403 | | LDN 3 | SET VALIDATION OPTION | 1AJ | 10938 |
| 5055 | 3411 | | STD CM+1 | | 271L716 | 23 |
| 5056 | 1400 | | LDN 0 | CLEAR BITS 30-18 IN TINW | 1AJ | 10940 |
| 5057 | 3427 | | STD CN+2 | | 1AJ | 10941 |
| 5060 | 3030 | | LDD CN+3 | | 1AJ | 10942 |
| 5061 | 1277 | | LPN 77 | | 1AJ | 10943 |
| 5062 | 3430 | | STD CN+3 | | 1AJ | 10944 |
| 5063 | 3074 | | LDD CP | | 1AJ | 10945 |
| 5064 | 1671 | | ADN TINW | | 1AJ | 10946 |
| 5065 | 6225 | | CWD CN | | 1AJ | 10947 |
| 5066 | 2000 | 0117 | MONITOR VFPM | | 1AJ | 10948 |
| 5072 | 3011 | | LDD CM+1 | | 1AJ | 10949 |
| 5073 | 0405 | | ZJN PCL1 | IF NO ERROR | 1AJ | 10950 |

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| | 5074 | 2000 | 1727 | LDC | /ERR/EM13 | * IEDIT BUFFER ERROR.* | NS2031 | 298 |
|----|------|------|------|------|-----------|------------------------|--------------------------------|-------------|
| | 5076 | 0100 | 2723 | LJM | /TCS/ERR1 | PROCESS ERROR | 1AJ | 10952 |
| 1 | 5100 | 3055 | | PCL1 | LDD | RA | GET WORD COUNT | 1AJ 10954 |
| 2 | 5101 | 3156 | | | ADD | FL | | 1AJ 10955 |
| 3 | 5102 | 1701 | | | SBN | 1 | | 1AJ 10956 |
| 4 | 5103 | 1006 | | | SHN | 6 | | 1AJ 10957 |
| 5 | 5104 | 6010 | | | CRD | CM | | 1AJ 10958 |
| 6 | 5105 | 3014 | | | LDD | CM+4 | | 1AJ 10959 |
| 7 | 5106 | 0503 | | | NJN | PCL3 | IF WORDS TO TRANSFER | 1AJ 10960 |
| 8 | 5107 | 0100 | 5037 | PCL2 | LJM | PCLX | RETURN | 1AJ 10961 |
| 9 | | | | | | | | 1AJ 10962 |
| 10 | 5111 | 3403 | | PCL3 | STD | T3 | STORE WORD COUNT | 1AJ 10963 |
| 11 | 5112 | 1777 | | | SBN | 77 | | 1AJ 10964 |
| 12 | 5113 | 0673 | | | PJN | PCL2 | IF INCORRECT WORD COUNT | V23L617 809 |
| 13 | 5114 | 3077 | | | LDD | MA | READ FET PARAMETERS | 1AJ 10966 |
| 14 | 5115 | 1602 | | | ADN | 2 | | 1AJ 10967 |
| 15 | 5116 | 6010 | | | CRD | CM | | 1AJ 10968 |
| 16 | 5117 | 1601 | | | ADN | 1 | | 1AJ 10969 |
| 17 | 5120 | 6025 | | | CRD | CN | | 1AJ 10970 |
| 18 | 5121 | 3030 | | | LDD | CN+3 | | 1AJ 10971 |
| 19 | 5122 | 1014 | | | SHN | 14 | | 1AJ 10972 |
| 20 | 5123 | 3331 | | | LMD | CN+4 | | 1AJ 10973 |
| 21 | 5124 | 3212 | | | SBD | CM+2 | | 1AJ 10974 |
| 22 | 5125 | 1006 | | | SHN | 6 | | 1AJ 10975 |
| 23 | 5126 | 3211 | | | SBD | CM+1 | | 1AJ 10976 |
| 24 | 5127 | 1014 | | | SHN | 14 | | 1AJ 10977 |
| 25 | 5130 | 3203 | | | SBD | T3 | | 1AJ 10978 |
| 26 | 5131 | 0602 | | | PJN | PCL4 | IF ROOM IN BUFFER | 1AJ 10979 |
| 27 | 5132 | 3503 | | | RAD | T3 | TRUNCATE LINE | 1AJ 10980 |
| 28 | 5133 | 3055 | | PCL4 | LDD | RA | TRANSFER TO PP BUFFER | 1AJ 10981 |
| 29 | 5134 | 3156 | | | ADD | FL | | 1AJ 10982 |
| 30 | 5135 | 1701 | | | SBN | 1 | | 1AJ 10983 |
| 31 | 5136 | 1006 | | | SHN | 6 | | 1AJ 10984 |
| 32 | 5137 | 1601 | | | ADN | 1 | | 1AJ 10985 |
| 33 | 5140 | 6103 | 5210 | | CRM | CLBF,T3 | | 1AJ 10986 |
| 34 | 5142 | 3011 | | | LDD | CM+1 | | 1AJ 10987 |
| 35 | 5143 | 1006 | | | SHN | 6 | | 1AJ 10988 |
| 36 | 5144 | 3155 | | | ADD | RA | | 1AJ 10989 |
| 37 | 5145 | 1006 | | | SHN | 6 | | 1AJ 10990 |
| 38 | 5146 | 3112 | | | ADD | CM+2 | | 1AJ 10991 |
| 39 | 5147 | 6303 | 5210 | | CWM | CLBF,T3 | TRANSFER WORDS TO INPUT BUFFER | 1AJ 10992 |
| 40 | 5151 | 3003 | | | LDD | T3 | UPDATE FET | 1AJ 10993 |
| 41 | 5152 | 3112 | | | ADD | CM+2 | | 1AJ 10994 |
| 42 | 5153 | 3414 | | | STD | CM+4 | | 1AJ 10995 |
| 43 | 5154 | 1063 | | | SHN | -14 | | 1AJ 10996 |
| 44 | 5155 | 3111 | | | ADD | CM+1 | | 1AJ 10997 |
| 45 | 5156 | 3413 | | | STD | CM+3 | | 1AJ 10998 |
| 46 | 5157 | 1400 | | | LDN | 0 | | 1AJ 10999 |
| 47 | 5160 | 3410 | | | STD | CM | | 1AJ 11000 |
| 48 | 5161 | 3411 | | | STD | CM+1 | | 1AJ 11001 |
| 49 | 5162 | 3412 | | | STD | CM+2 | | 1AJ 11002 |
| 50 | 5163 | 3001 | | | LDD | T1 | | 1AJ 11003 |
| 51 | 5164 | 1006 | | | SHN | 6 | | 1AJ 11004 |
| 52 | 5165 | 3155 | | | ADD | RA | | 1AJ 11005 |
| 53 | 5166 | 1006 | | | SHN | 6 | | 1AJ 11006 |
| 54 | 5167 | 3102 | | | ADD | T2 | | 1AJ 11007 |

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|------|------|------|-------|-----------------|------|-----|-------|
| 5170 | 6025 | | CRD | CN | | 1AJ | 11008 |
| 5171 | 1602 | | ADN | 2 | | 1AJ | 11009 |
| 5172 | 6210 | | CWD | CM | | 1AJ | 11010 |
| 5173 | 3031 | | LDD | CN+4 | | 1AJ | 11011 |
| 5174 | 2200 | 7002 | LPC | 7002 | | 1AJ | 11012 |
| 5176 | 1121 | | LMN | 21 | | 1AJ | 11013 |
| 5177 | 3431 | | STD | CN+4 | | 1AJ | 11014 |
| 5200 | 3001 | | LDD | T1 | | 1AJ | 11015 |
| 5201 | 1006 | | SHN | 6 | | 1AJ | 11016 |
| 5202 | 3155 | | ADD | RA | | 1AJ | 11017 |
| 5203 | 1006 | | SHN | 6 | | 1AJ | 11018 |
| 5204 | 3102 | | ADD | T2 | | 1AJ | 11019 |
| 5205 | 6225 | | CWD | CN | | 1AJ | 11020 |
| 5206 | 0100 | 5037 | LJM | PCLX | EXIT | 1AJ | 11021 |
| | | | | | | 1AJ | 11022 |
| | | | | | | 1AJ | 11023 |
| | 5210 | CLBF | EQU | * | | 1AJ | 11024 |
| | 1066 | | ERRNG | BFMS-CLBF-100*5 | | 1AJ | 11025 |

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|---------|--|---------|-------|
| QUAL | 3AI | 1AJ | 11028 |
| IDENT | 3AI,SGDX | 1AJ | 11029 |
| COMMENT | 82/02/26. 95/06/23. 1AJ - SEARCH GLOBAL LIBRARY DIRECTORY. | 1AJ | 11030 |
| COMMENT | COPYRIGHT CONTROL DATA SYSTEMS INC. 1992. | 281L803 | 14 |

| | | | |
|-----|---|--------|-------|
| *** | 3AI - SEARCH GLOBAL LIBRARY DIRECTORY. | 1AJ | 11033 |
| * | | 1AJ | 11034 |
| * | | 1AJ | 11035 |
| * | *3AI* SEARCHES FOR A NAME IN THE GLOBAL LIBRARY | 1AJ | 11036 |
| * | DIRECTORY FILE, *ZZZZLD*. | 1AJ | 11037 |
| * | THE FORMAT OF THE DIRECTORY FILE IS AS FOLLOWS. | 1AJ | 11038 |
| *T | 42/ ENTRY POINT NAME,12/ 0,6/ RT | 1AJ | 11039 |
| *T, | 24/ RANDOM ADDRESS,36/ 0 | 1AJ | 11040 |
| *T, | 42/ LIBRARY NAME,18/ 0 | 1AJ | 11041 |
| *T, | 12/ FL, 11/ 0, 1/N, 12/ SEPF, 24/ 0 | NS2268 | 5 |
| * | | 1AJ | 11043 |
| * | RT = RECORD TYPE. | 1AJ | 11044 |
| * | FL = FIELD LENGTH. | 1AJ | 11045 |
| * | N = PARAMETER CRACKING FORMAT. | 1AJ | 11046 |
| * | SET IF *NPC=* ENTRY POINT DEFINED. | 1AJ | 11047 |
| * | SEPF = SPECIAL ENTRY POINT FLAGS | NS2268 | 6 |
| * | (SEE BYTE 0 OF *SEPW* IN *PPCOM*). | NS2268 | 7 |

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|-----|--|-----|-------|
| *** | DAYFILE MESSAGES. | 1AJ | 11049 |
| * | | 1AJ | 11050 |
| * | * GLOBAL LIBRARY DIRECTORY DEFECTIVE.* | 1AJ | 11051 |
| * | THE *ZZZZLD* FILE IS NOT A GLOBAL LIBRARY DIRECTORY, | 1AJ | 11052 |
| * | OR THE INFORMATION CONTAINED IN THE DIRECTORY IS | 1AJ | 11053 |
| * | INCONSISTENT WITH THE CONTENTS OF THE GLOBAL LIBRARY SET. | 1AJ | 11054 |
| * | | 1AJ | 11055 |
| * | * GLOBAL LIBRARY DIRECTORY NOT FOUND.* | 1AJ | 11056 |
| * | THE GLOBAL LIBRARY BIT IN *LB1W* IS SET TO INDICATE | 1AJ | 11057 |
| * | GLOBAL LIBRARY PROCESSING, BUT THE *ZZZZLD* FILE | 1AJ | 11058 |
| * | WAS NOT FOUND. | 1AJ | 11059 |
| * | | 1AJ | 11060 |
| * | * I/O SEQUENCE ERROR.* | 1AJ | 11061 |
| * | THE *ZZZZLD* DIRECTORY FILE IS BUSY. | 1AJ | 11062 |
| * | | 1AJ | 11063 |
| * | * USER LIBRARY NOT FOUND.* | 1AJ | 11064 |
| * | THE ENTRY POINT WAS FOUND IN THE *ZZZZLD* DIRECTORY | 1AJ | 11065 |
| * | FILE, BUT THE USER LIBRARY IT RESIDES IN WAS NOT FOUND. | 1AJ | 11066 |
| * | | 1AJ | 11067 |
| * | * USER LIBRARY NOT ON MASS STORAGE.* | 1AJ | 11068 |
| * | THE ENTRY POINT WAS FOUND IN THE *ZZZZLD* DIRECTORY | 1AJ | 11069 |
| * | FILE, BUT THE USER LIBRARY IT RESIDES IN DOES NOT | 1AJ | 11070 |
| * | RESIDE ON MASS STORAGE. | 1AJ | 11071 |
| * | | 1AJ | 11072 |
| * | * ZZZZLD NOT ON MASS STORAGE.* | 1AJ | 11073 |
| * | THE DIRECTORY FILE DOES NOT RESIDE ON A MASS STORAGE DEVICE. | 1AJ | 11074 |

*** DIRECT LOCATION ASSIGNMENTS.
*

1AJ 11076
1AJ 11077
1AJ 11078
1AJ 11079
1AJ 11080

63 RI EQU CW+3 RANDOM INDEX (2 LOCATIONS)
32 FN EQU AB FILE NAME

** SGD - SEARCH GLOBAL LIBRARY DIRECTORY.

1AJ 11082

*

1AJ 11083

* ENTRY (AB - AB+3) = ASSEMBLED NAME LEFT JUSTIFIED.

1AJ 11084

*

1AJ 11085

* EXIT LJM IN *CGLB* SET TO -

1AJ 11086

* *SSC* IF PROGRAM RELOCATABLE OR *CCL* PROCEDURE,

1AJ 11087

* *SCL7* TO CHECK FIELD LENGTH IF PROGRAM ABSOLUTE,

1AJ 11088

* TO *TCS*, IF ENTRY NOT FOUND.

1AJ 11089

* IF PROGRAM IS ABSOLUTE -

1AJ 11090

* (AB - AB+3) = USER LIBRARY WHERE ENTRY POINT IS

1AJ 11091

* FOUND.

1AJ 11092

* (FS - FS+3) = ENTRY POINT NAME.

1AJ 11093

* (FS+4) = TRACK.

1AJ 11094

* (CW) = REQUIRED FIELD LENGTH.

1AJ 11095

* (CW+1) = EST ORDINAL THE LIBRARY RESIDES ON.

NS22000 278

* (CW+3) = TRACK.

1AJ 11097

* (CW+4) = SECTOR.

1AJ 11098

1AJ 11099

* ERROR TO */TCS/ERR1* IF ERROR IN DIRECTORY FILE OR

1AJ 11100

* USER LIBRARY.

1AJ 11101

* TO *MSR*, IF MASS STORAGE ERROR.

242L642 529

*

1AJ 11102

* USES FA, RI+1, AB - AB+4, CM - CM+4, CW - CW+4, FS - FS+4,

1AJ 11103

* T1 - T3, T5 - T7.

1AJ 11104

*

1AJ 11105

* CALLS CRA, RNS, SAF, SFB.

1AJ 11106

*

1AJ 11107

* MACROS ENDMS, MONITOR, NFA, SETMS, SFA.

NS22000 279

1AJ 11109

1AJ 11110

4550

ORG OVL+5

1AJ 11111

4550

0100 4550

SGD

SUBR

ENTRY/EXIT

1AJ 11112

4552

3077

LDD

MA

PP MESSAGE BUFFER ADDRESS

1AJ 11113

4553

6232

CWD

AB

SWAP NAME FROM (AB - AB+3) TO *SGDC*

1AJ 11114

4554

6170 5320

CRM

SGDC,ON

1AJ 11115

4556

1701

SBN

1

PUT *ZZZZZLD* INTO (AB - AB+3)

1AJ 11116

4557

6370 5313

CWM

SGDB,ON

RESET (A) TO BUFFER ADDRESS

1AJ 11117

4561

1701

SBN

1

(AB - AB+3) CONTAINS *ZZZZZLD*

1AJ 11118

4562

6032

CRD

AB

SEARCH FOR ASSIGNED FILE

1AJ 11119

4563

0200 5526

RJM

SAF

STORE FILE NOT FOUND FLAG

1AJ 11120

4565

3406

STD

T6

SWAP NAME BACK INTO (AB - AB+3)

1AJ 11121

4566

3077

LDD

MA

SWAP NAME BACK INTO (AB - AB+3)

1AJ 11122

4567

6370 5320

CWM

SGDC,ON

1AJ 11123

4571

1701

SBN

1

CHECK FILE NOT FOUND FLAG

1AJ 11124

4572

6032

CRD

AB

IF DIRECTORY FILE MISSING

1AJ 11125

4573

3006

LDD

T6

1AJ 11126

4574

0410

ZJN

SGD2

1AJ 11127

1AJ 11128

| | | | | | | | | |
|------|------|------|------|-------|-----------|--|---------|-------|
| 4575 | 0200 | 5603 | | RJM | SFB | SET FILE BUSY | 1AJ | 11129 |
| 4577 | 0426 | | | ZJN | SGD3 | IF FILE SET BUSY | 1AJ | 11130 |
| 4600 | 2000 | 1765 | | LDC | /ERR/EM15 | * I/O SEQUENCE ERROR.* | NS2031 | 299 |
| 4602 | 5400 | 4622 | SGD1 | STM | SGDA | SET ERROR MESSAGE | 1AJ | 11132 |
| 4604 | 3074 | | SGD2 | LDD | CP | CLEAR GLOBAL LIBRARY BITS | 1AJ | 11133 |
| 4605 | 2100 | 0112 | | ADC | LB1W | | 1AJ | 11134 |
| 4607 | 3401 | | | STD | T1 | | 1AJ | 11135 |
| 4610 | 6010 | | | CRD | CM | | 1AJ | 11136 |
| 4611 | 3010 | | | LDD | CM | | 1AJ | 11137 |
| 4612 | 2200 | 5774 | | LPC | 5774 | | 1AJ | 11138 |
| 4614 | 3410 | | | STD | CM | | 1AJ | 11139 |
| 4615 | 3001 | | | LDD | T1 | | 1AJ | 11140 |
| 4616 | 6210 | | | CWD | CM | | 1AJ | 11141 |
| 4617 | 1400 | | | LDN | 0 | CLEAR FNT ADDRESS | 1AJ | 11142 |
| 4620 | 3457 | | | STD | FA | | 1AJ | 11143 |
| 4621 | 2000 | 1742 | | LDC | /ERR/EM14 | * GLOBAL LIBRARY DIRECTORY NOT FOUND.* | NS2031 | 300 |
| | | | * | LDC | /ERR/EM15 | (* I/O SEQUENCE ERROR.*) | NS2031 | 301 |
| | | | * | LDC | /ERR/EM16 | (* ZZZZZLD NOT ON MASS STORAGE.*) | NS2031 | 302 |
| | | 4622 | SGDA | EQU | *-1 | (ERROR MESSAGE TO BE ISSUED) | 1AJ | 11147 |
| 4623 | 0100 | 2723 | | LJM | /TCS/ERR1 | PROCESS ERROR | 1AJ | 11148 |
| | | | | | | | 1AJ | 11149 |
| 4625 | 3020 | | SGD3 | LDD | FS | SET EST ORDINAL | NS22000 | 280 |
| 4626 | 2200 | 0777 | | LPC | 777 | | 1AJ | 11151 |
| 4630 | 3405 | | | STD | T5 | | 1AJ | 11152 |
| 4631 | 0200 | 0245 | | SFA | EST | READ EST ENTRY | NS22000 | 281 |
| | | | | ADK | EQDE | | NS22000 | 282 |
| 4633 | 6010 | | | CRD | CM | | 1AJ | 11154 |
| 4634 | 3010 | | | LDD | CM | | 1AJ | 11155 |
| 4635 | 1006 | | | SHN | 21-13 | | 1AJ | 11156 |
| 4636 | 0713 | | | MJN | SGD4 | IF MASS STORAGE | 1AJ | 11157 |
| 4637 | 3624 | | | AOD | FS+4 | SET FILE NOT BUSY | 1AJ | 11158 |
| 4640 | 3055 | | | NFA | FA,R | STORE FST ENTRY | 1AJ | 11159 |
| 4643 | 1601 | | | ADN | FSTL | | 1AJ | 11160 |
| 4644 | 6220 | | | CWD | FS | | 1AJ | 11161 |
| 4645 | 2000 | 2000 | | LDC | /ERR/EM16 | * ZZZZZLD NOT ON MASS STORAGE.* | NS2031 | 303 |
| 4647 | 0100 | 4602 | | LJM | SGD1 | PROCESS ERROR | 1AJ | 11163 |
| | | | | | | | 1AJ | 11164 |
| 4651 | 1400 | | SGD4 | SETMS | I0 | | 242L642 | 530 |
| 4654 | 3021 | | | LDD | FS+1 | SET TO FIRST TRACK AND SECTOR | 1AJ | 11166 |
| 4655 | 3406 | | | STD | T6 | FIRST TRACK | 1AJ | 11167 |
| 4656 | 1401 | | | LDN | FSMS | | 1AJ | 11168 |
| 4657 | 3407 | | | STD | T7 | FIRST SECTOR(SKIP SYSTEM SECTOR) | 1AJ | 11169 |
| 4660 | 2000 | 6776 | SGD5 | LDC | BFMS | | 1AJ | 11170 |
| 4662 | 0200 | 5475 | | RJM | RNS | READ NEXT SECTOR | 1AJ | 11171 |
| 4664 | 0603 | | | MJP | MSR | IF MASS STORAGE ERROR | 242L642 | 531 |
| 4667 | 0516 | | | NJN | SGD7 | IF NOT EMPTY SECTOR | 1AJ | 11172 |
| | | | | | | | 1AJ | 11173 |
| | | | * | | | NAME NOT FOUND IN DIRECTORY, SET FILE NOT BUSY AND RETURN. | 1AJ | 11174 |
| | | | | | | | 1AJ | 11175 |
| 4670 | 0200 | 0535 | SGD6 | ENDMS | | | 1AJ | 11176 |
| 4672 | 3024 | | | LDD | FS+4 | SET OPERATION COMPLETE | 1AJ | 11177 |
| 4673 | 1377 | | | SCN | 77 | | 1AJ | 11178 |
| 4674 | 1105 | | | LMN | 5 | | 1AJ | 11179 |
| 4675 | 3424 | | | STD | FS+4 | | 1AJ | 11180 |
| 4676 | 3055 | | | NFA | FA,R | STORE FST ENTRY | 1AJ | 11181 |
| 4701 | 1601 | | | ADN | FSTL | | 1AJ | 11182 |
| 4702 | 6220 | | | CWD | FS | | 1AJ | 11183 |

| 4703 | 0100 4550 | LJM | SGDX | RETURN | 1AJ | 11184 | |
|------|-----------|---------|-------|--------------------------|------------------------------------|--------|-------|
| | | | | | 1AJ | 11185 | |
| | | | | | 1AJ | 11186 | |
| | | | | | 1AJ | 11187 | |
| 4705 | 2000 7000 | SGD7 | LDC | BFMS+2 | INITIAL PP WORD IN BUFFER | 1AJ | 11188 |
| 4707 | 3402 | | STD | T2 | | 1AJ | 11189 |
| 4710 | 1401 | | LDN | 1 | INITIAL CM WORD IN BUFFER | 1AJ | 11190 |
| 4711 | 3403 | | STD | T3 | | 1AJ | 11191 |
| 4712 | 3001 | SGD8 | LDD | T1 | READ WORDS TRANSFERRED | 1AJ | 11192 |
| 4713 | 3203 | | SBD | T3 | CM WORD LOCATION IN BUFFER | 1AJ | 11193 |
| 4714 | 0605 | | PJN | SGD9 | IF MORE ENTRIES IN BUFFER | 1AJ | 11194 |
| 4715 | 3001 | | LDD | T1 | CHECK FOR SHORT SECTOR(EOR OR EOF) | 1AJ | 11195 |
| 4716 | 1071 | | SHN | -6 | | 1AJ | 11196 |
| 4717 | 0540 | | NJN | SGD5 | IF FULL SECTOR WAS TRANSFERRED | 1AJ | 11197 |
| 4720 | 0347 | | UJN | SGD6 | EXIT, ENTRY NOT FOUND | 1AJ | 11198 |
| | | | | | | 1AJ | 11199 |
| 4721 | 4002 | SGD9 | LDI | T2 | COMPARE ENTRY POINT NAME | 1AJ | 11200 |
| 4722 | 3332 | | LMD | AB | | 1AJ | 11201 |
| 4723 | 0516 | | NJN | SGD10 | IF NO MATCH | 1AJ | 11202 |
| 4724 | 5002 0001 | | LDM | 1,T2 | | 1AJ | 11203 |
| 4726 | 3333 | | LMD | AB+1 | | 1AJ | 11204 |
| 4727 | 0512 | | NJN | SGD10 | IF NO MATCH | 1AJ | 11205 |
| 4730 | 5002 0002 | | LDM | 2,T2 | | 1AJ | 11206 |
| 4732 | 3334 | | LMD | AB+2 | | 1AJ | 11207 |
| 4733 | 0506 | | NJN | SGD10 | IF NO MATCH | 1AJ | 11208 |
| 4734 | 5002 0003 | | LDM | 3,T2 | | 1AJ | 11209 |
| 4736 | 3335 | | LMD | AB+3 | | 1AJ | 11210 |
| 4737 | 1377 | | SCN | 77 | | 1AJ | 11211 |
| 4740 | 0406 | | ZJN | SGD11 | IF ENTRY POINT FOUND | 1AJ | 11212 |
| 4741 | 1404 | SGD10 | LDN | 4 | INCREMENT CM WORD COUNT | 1AJ | 11213 |
| 4742 | 3503 | | RAD | T3 | | 1AJ | 11214 |
| 4743 | 1424 | | LDN | 20D | INCREMENT PP WORD COUNT | 1AJ | 11215 |
| 4744 | 3502 | | RAD | T2 | | 1AJ | 11216 |
| 4745 | 0344 | | UJN | SGD8 | CHECK NEXT ENTRY | 1AJ | 11217 |
| | | | | | | 1AJ | 11218 |
| | | | | | | 1AJ | 11219 |
| | | | | | | 1AJ | 11220 |
| 4746 | 0200 0535 | SGD11 | ENDMS | | | 1AJ | 11221 |
| 4750 | 3624 | | AOD | FS+4 | SET FILE NOT BUSY | 1AJ | 11222 |
| 4751 | 3055 | | NFA | FA,R | | 1AJ | 11223 |
| 4754 | 1601 | | ADN | FSTL | | 1AJ | 11224 |
| 4755 | 6220 | | CWD | FS | | 1AJ | 11225 |
| 4756 | 5002 0020 | | LDM | 3*5+1,T2 | SET PARAMETER CRACKING FORMAT | 1AJ22 | 1 |
| 4760 | 1201 | | LPN | 1 | | 1AJ22 | 2 |
| 4761 | 5500 2315 | | RAM | /TCS/ARGA | | 1AJ22 | 3 |
| 4763 | 2000 0302 | | LDC | UJNI+/TCS/SCL5-/TCS/SCLD | DISABLE CHANGE IN CRACKING | 1AJ22 | 4 |
| 4765 | 5400 1520 | | STM | /TCS/SCLD | | 1AJ22 | 5 |
| 4767 | 5002 0004 | | LDM | 4,T2 | CHECK FOR VALID RECORD TYPES | 1AJ | 11226 |
| 4771 | 1111 | | LMN | ABRT | | 1AJ | 11227 |
| 4772 | 0503 | | NJN | SGD12 | IF NOT AN ABSOLUTE OVERLAY | 1AJ | 11228 |
| 4773 | 0100 5055 | SGD11.1 | LJM | SGD17 | PROCESS *ABS* OR *OVL* LOAD | NS2201 | 1 |
| | | | | | | NS2201 | 2 |
| 4775 | 1115 | SGD12 | LMN | OVRT&ABRT | | NS2201 | 3 |
| 4776 | 0474 | | ZJN | SGD11.1 | IF *OVL* LEVEL (0,0) | NS2201 | 4 |
| 4777 | 1107 | | LMN | RLRT&OVRT | | NS2201 | 5 |
| 5000 | 0524 | | NJN | SGD13 | IF PROGRAM NOT RELOCATABLE | 1AJ | 11232 |
| 5001 | 5000 1506 | | LDM | /TCS/SCLC | | NS2268 | 8 |

| | | | | | | | |
|------|-----------|--|-------------|---|--|--------|-------|
| 5003 | 0505 | | NJN | SGD12.1 | IF NOT POSSIBLE CONTINUATION CARD | NS2268 | 9 |
| 5004 | 2000 1572 | | LDC | /ERR/EM05 | * INCORRECT COMMAND.* | NS2268 | 10 |
| 5006 | 0100 5053 | | LJM | SGD16 | ISSUE ERROR MESSAGE | NS2268 | 11 |
| | | | | | | NS2268 | 12 |
| 5010 | 3074 | | SGD12.1 LDD | CP | SET RELOCATABLE LOAD FLAG | NS2268 | 13 |
| 5011 | 2100 0112 | | ADC | LB1W | | 1AJ | 11234 |
| 5013 | 3401 | | STD | T1 | | 1AJ | 11235 |
| 5014 | 6010 | | CRD | CM | | 1AJ | 11236 |
| 5015 | 3010 | | LDD | CM | | 1AJ | 11237 |
| 5016 | 1102 | | LMN | 2 | | 1AJ | 11238 |
| 5017 | 3410 | | STD | CM | | 1AJ | 11239 |
| 5020 | 3001 | | LDD | T1 | | 1AJ | 11240 |
| 5021 | 6210 | | CWD | CM | | 1AJ | 11241 |
| 5022 | 1400 | | LDN | /TCS/LDR= | SET SYSTEM CALL TO CYBER LOADER | 1AJ | 11242 |
| 5023 | 0310 | | UJN | SGD14 | SET SYSTEM CALL | 1AJ | 11243 |
| | | | | | | 1AJ | 11244 |
| 5024 | 1123 | | SGD13 LMN | PRRT&RLRT | | 1AJ106 | 3 |
| 5025 | 0522 | | NJN | SGD15 | IF NOT VALID RECORD TYPE | 1AJ | 11246 |
| 5026 | 2000 4040 | | LDC | 4040 | SET *ARG=* ENTRY POINT | NS2268 | 14 |
| 5030 | 5400 1254 | | STM | /TCS/CSEB | | NS2268 | 15 |
| 5032 | 1404 | | LDN | /TCS/BEGI | SET SYSTEM CALL TO BEGIN *CCL* PROC | 1AJ | 11247 |
| 5033 | 5400 1277 | | SGD14 STM | /TCS/CGLA | SAVE SYSTEM CALL | 1AJ | 11248 |
| 5035 | 2000 3575 | | LDC | /TCS/SSC | SET JUMP TO SET SYSTEM CALL | 1AJ | 11249 |
| 5037 | 5400 1301 | | STM | /TCS/CGLB | | 1AJ | 11250 |
| 5041 | 2000 1400 | | LDC | LDNI+0 | ENABLE *SCL* | 1AJ24 | 1 |
| 5043 | 5400 1433 | | STM | /TCS/SCLE | | 1AJ24 | 2 |
| 5045 | 0100 4550 | | LJM | SGDX | RETURN | 1AJ | 11251 |
| | | | | | | 1AJ | 11252 |
| | | | * | GLOBAL LIBRARY DIRECTORY ERROR. | | 1AJ | 11253 |
| | | | | | | 1AJ | 11254 |
| 5047 | 1400 | | SGD15 LDN | 0 | | 1AJ | 11255 |
| 5050 | 3457 | | STD | FA | | 1AJ | 11256 |
| 5051 | 2000 2020 | | LDC | /ERR/EM17 | * GLOBAL LIBRARY DIRECTORY DEFECTIVE.* | NS2031 | 304 |
| 5053 | 0100 2723 | | SGD16 LJM | /TCS/ERR1 | PROCESS ERROR | 1AJ | 11258 |
| | | | | | | 1AJ | 11259 |
| | | | * | COLLECT NECESSARY INFORMATION OUT OF DIRECTORY. | | 1AJ | 11260 |
| | | | | | | 1AJ | 11261 |
| 5055 | 5002 0005 | | SGD17 LDM | 1*5+0,T2 | SET RANDOM ADDRESS | 1AJ | 11262 |
| 5057 | 3406 | | STD | T6 | | 1AJ | 11263 |
| 5060 | 5002 0006 | | LDM | 1*5+1,T2 | | 1AJ | 11264 |
| 5062 | 3407 | | STD | T7 | | 1AJ | 11265 |
| 5063 | 3106 | | ADD | T6 | | 1AJ | 11266 |
| 5064 | 0462 | | ZJN | SGD15 | IF RANDOM INDEX IS ZERO | 1AJ | 11267 |
| | | | | | | 1AJ | 11268 |
| | | | * | LOCATE LIBRARY FNT/FST. | | 1AJ | 11269 |
| | | | | | | 1AJ | 11270 |
| 5065 | 5002 0012 | | LDM | 2*5+0,T2 | SET LIBRARY NAME | 1AJ | 11271 |
| 5067 | 3432 | | STD | AB | | 1AJ | 11272 |
| 5070 | 5002 0013 | | LDM | 2*5+1,T2 | | 1AJ | 11273 |
| 5072 | 3433 | | STD | AB+1 | | 1AJ | 11274 |
| 5073 | 5002 0014 | | LDM | 2*5+2,T2 | | 1AJ | 11275 |
| 5075 | 3434 | | STD | AB+2 | | 1AJ | 11276 |
| 5076 | 5002 0015 | | LDM | 2*5+3,T2 | | 1AJ | 11277 |
| 5100 | 3435 | | STD | AB+3 | | 1AJ | 11278 |
| 5101 | 1400 | | LDN | 0 | | 1AJ | 11279 |
| 5102 | 3436 | | STD | AB+4 | | 1AJ | 11280 |
| 5103 | 0200 5526 | | RJM | SAF | SEARCH FOR ASSIGNED FILE | 1AJ | 11281 |

| Line | Card | Address | Code | Library | Description | Address | Page |
|------|------|-----------|---------|---------|--|---|-------------|
| | 5105 | 0504 | | NJN | SGD18 | IF USER LIBRARY FOUND | 1AJ 11282 |
| | 5106 | 2000 2065 | | LDC | /ERR/EM19 | * USER LIBRARY NOT FOUND.* | NS2031 305 |
| | 5110 | 0342 | | UJN | SGD16 | PROCESS ERROR | 1AJ 11284 |
| 1 | | | | | | | 1AJ 11285 |
| 2 | 5111 | 5002 0021 | SGD18 | LDM | 3*5+2,T2 | GET SPECIAL ENTRY POINTS | NS2268 16 |
| 3 | 5113 | 2200 4050 | | LPC | 4050 | ALLOW *ARG=* AND *SDM=* ONLY | NS2268 17 |
| 4 | 5115 | 5400 1254 | | STM | /TCS/CSEB | | NS2268 18 |
| 5 | 5117 | 3074 | | LDD | CP | SET FNT ADDRESS INTO CONTROL POINT AREA | NS2268 19 |
| 6 | 5120 | 2100 0115 | | ADC | EOCW | | 1AJ 11287 |
| 7 | 5122 | 6060 | | CRD | CW | | 1AJ 11288 |
| 8 | 5123 | 3057 | | LDD | FA | | 1AJ 11289 |
| 9 | 5124 | 3460 | | STD | CW | | 1AJ 11290 |
| 10 | 5125 | 3074 | | LDD | CP | | 1AJ 11291 |
| 11 | 5126 | 2100 0115 | | ADC | EOCW | | 1AJ 11292 |
| 12 | 5130 | 6260 | | CWD | CW | | 1AJ 11293 |
| 13 | 5131 | 3023 | | LDD | FS+3 | | 1AJ 11294 |
| 14 | 5132 | 1017 | | SHN | 21-2 | | 1AJ 11295 |
| 15 | 5133 | 0615 | | PJN | SGD19 | IF NOT EXECUTE-ONLY FILE | 1AJ 11296 |
| 16 | 5134 | 5000 1254 | | LDM | /TCS/CSEB | SET *SSM=* ENTRY POINT | NS2268 20 |
| 17 | 5136 | 2277 3776 | | LPC | -4001 | | NS2268 21 |
| 18 | 5140 | 2300 4001 | | LMC | 4001 | | NS2268 22 |
| 19 | 5142 | 5400 1254 | | STM | /TCS/CSEB | | NS2268 23 |
| 20 | 5144 | 2000 1200 | | LDC | LPNI | ALLOW MEMORY CLEARING BEFORE LOAD | 1AJ60 3 |
| 21 | 5146 | 5400 2211 | | STM | /TCS/BCPN | | 1AJ60 4 |
| 22 | 5150 | 5000 1506 | SGD19 | LDM | /TCS/SCLC | | NS2268 24 |
| 23 | 5152 | 0511 | | NJN | SGD19.1 | IF NOT POSSIBLE CONTINUATION CARD | NS2268 25 |
| 24 | 5153 | 5000 1254 | | LDM | /TCS/CSEB | | NS2268 26 |
| 25 | 5155 | 1014 | | SHN | 21-5 | | NS2268 27 |
| 26 | 5156 | 0705 | | MJN | SGD19.1 | IF *ARG=* ENTRY POINT | NS2268 28 |
| 27 | 5157 | 2000 1572 | | LDC | /ERR/EM05 | * INCORRECT COMMAND.* | NS2268 29 |
| 28 | 5161 | 0100 5053 | | LJM | SGD16 | ISSUE ERROR MESSAGE | NS2268 30 |
| 29 | | | | | | | NS2268 31 |
| 30 | 5163 | 5002 0017 | SGD19.1 | LDM | 3*5+0,T2 | SET REQUIRED FIELD LENGTH | NS2268 32 |
| 31 | 5165 | 3460 | | STD | CW | | 1AJ 11300 |
| 32 | | | | | | | 1AJ 11304 |
| 33 | | | * | | SET UP CALL TO CONVERT RANDOM ADDRESS. | | 1AJ 11305 |
| 34 | | | | | | | 1AJ 11306 |
| 35 | 5166 | 3055 | | NFA | FA,R | GET FST ENTRY | 1AJ 11307 |
| 36 | 5171 | 1601 | | ADN | FSTL | | 1AJ 11308 |
| 37 | 5172 | 6020 | | CRD | FS | | 1AJ 11309 |
| 38 | 5173 | 3020 | | LDD | FS | SET EQUIPMENT | 1AJ 11310 |
| 39 | 5174 | 2200 0777 | | LPC | 777 | | 1AJ 11311 |
| 40 | 5176 | 3405 | | STD | T5 | | 1AJ 11312 |
| 41 | 5177 | 3461 | | STD | CW+1 | STORE EQUIPMENT IN CONTROL WORD | 1AJ 11313 |
| 42 | 5200 | 0200 0245 | | SFA | EST | READ EST ENTRY | NS22000 283 |
| 43 | | | | ADK | EQDE | | NS22000 284 |
| 44 | 5202 | 6010 | | CRD | CM | | 1AJ 11315 |
| 45 | 5203 | 3010 | | LDD | CM | | 1AJ 11316 |
| 46 | 5204 | 1006 | | SHN | 21-13 | | 1AJ 11317 |
| 47 | 5205 | 0625 | | PJN | SGD20 | IF NOT ON MASS STORAGE | 1AJ 11318 |
| 48 | 5206 | 3006 | | LDD | T6 | STORE RANDOM ADDRESS IN RI - RI+1 | 1AJ 11319 |
| 49 | 5207 | 3463 | | STD | RI | | 1AJ 11320 |
| 50 | 5210 | 1014 | | SHN | 14 | | 1AJ92 111 |
| 51 | 5211 | 3307 | | LMD | T7 | | 1AJ92A 1 |
| 52 | 5212 | 1014 | | SHN | 14 | | 1AJ92 113 |
| 53 | 5213 | 5400 1302 | | STM | /TCS/CGLC | | 1AJ92 114 |
| 54 | 5215 | 1071 | | SHN | -6 | | 1AJ92 115 |

| | | | | | | | | |
|------|-----------|-------|------|-------------------|---------------------------------------|--------------------------------------|--------|-------|
| 5216 | 1377 | | SCN | 77 | | | 1AJ92 | 116 |
| 5217 | 5400 1303 | | STM | /TCS/CGLC+1 | | | 1AJ92 | 117 |
| 5221 | 3007 | | LDD | T7 | | | 1AJ | 11321 |
| 5222 | 3464 | | STD | RI+1 | | | 1AJ | 11322 |
| 5223 | 3021 | | LDD | FS+1 | SET FIRST TRACK | | 1AJ | 11323 |
| 5224 | 3406 | | STD | T6 | | | 1AJ | 11324 |
| 5225 | 0200 5374 | | RJM | CRA | CONVERT RANDOM ADDRESS | | 1AJ | 11325 |
| 5227 | 0607 | | PJN | SGD21 | IF RANDOM ADDRESS FOUND | | 1AJ | 11326 |
| 5230 | 0100 5047 | | LJM | SGD15 | PROCESS ERROR | | 1AJ | 11327 |
| | | | | | | | 1AJ | 11328 |
| 5232 | 2000 2043 | SGD20 | LDC | /ERR/EM18 | * USER LIBRARY NOT ON MASS STORAGE.* | | NS2031 | 306 |
| 5234 | 0100 2723 | | LJM | /TCS/ERR1 | PROCESS ERROR | | 1AJ | 11330 |
| | | | | | | | 1AJ | 11331 |
| 5236 | 3006 | SGD21 | LDD | T6 | STORE TRACK AND SECTOR IN CW+3 - CW+4 | | 1AJ | 11332 |
| 5237 | 3463 | | STD | CW+3 | TRACK | | 1AJ | 11333 |
| 5240 | 5400 5324 | | STM | SGDC+4 | | | 1AJ | 11334 |
| 5242 | 3007 | | LDD | T7 | | | 1AJ | 11335 |
| 5243 | 3464 | | STD | CW+4 | | | 1AJ | 11336 |
| 5244 | 1400 | | LDN | 0 | | | 1AJ | 11337 |
| 5245 | 3462 | | STD | CW+2 | CLEAR OUT REST OF CONTROL WORD | | 1AJ | 11338 |
| 5246 | 2000 1522 | | LDC | /TCS/SCL7 | SET IF PROGRAM ABSOLUTE | | 1AJ | 11339 |
| 5250 | 5400 1434 | | STM | /TCS/SCLA+1 | | | 1AJ | 11340 |
| 5252 | 2000 0100 | | LDC | LJMI | | | 1AJ | 11341 |
| 5254 | 5400 1433 | | STM | /TCS/SCLA | | | 1AJ | 11342 |
| 5256 | 2000 0200 | | LDC | RJMI | SET RETURN JUMP IN */TCS/CGL* | | 1AJ | 11343 |
| 5260 | 5400 1300 | | STM | /TCS/CGLB-1 | | | 1AJ | 11344 |
| 5262 | 2000 1426 | | LDC | /TCS/SCL | | | 1AJ | 11345 |
| 5264 | 5400 1301 | | STM | /TCS/CGLB | | | 1AJ | 11346 |
| 5266 | 2000 6764 | | LDC | /3AE/LDU | SET *RJM* ADDRESS IN *BCP* | | 1AJ | 11347 |
| 5270 | 5400 1705 | | STM | /TCS/BCPB | | | 1AJ | 11348 |
| 5272 | 3074 | | LDD | CP | SET USER LIBRARY LOAD FLAG | | 1AJ | 11349 |
| 5273 | 2100 0112 | | ADC | LB1W | | | 1AJ | 11350 |
| 5275 | 3401 | | STD | T1 | | | 1AJ | 11351 |
| 5276 | 6010 | | CRD | CM | | | 1AJ | 11352 |
| 5277 | 3010 | | LDD | CM | | | 1AJ | 11353 |
| 5300 | 1101 | | LMN | 1 | | | 1AJ | 11354 |
| 5301 | 3410 | | STD | CM | | | 1AJ | 11355 |
| 5302 | 3001 | | LDD | T1 | | | 1AJ | 11356 |
| 5303 | 6210 | | CWD | CM | | | 1AJ | 11357 |
| 5304 | 3077 | | LDD | MA | SET ENTRY POINT NAME | | 1AJ | 11358 |
| 5305 | 6370 5320 | | CWM | SGDC,ON | | | 1AJ | 11359 |
| 5307 | 1701 | | SBN | 1 | | | 1AJ | 11360 |
| 5310 | 6020 | | CRD | FS | | | 1AJ | 11361 |
| 5311 | 0100 4550 | | LJM | SGDX | RETURN | | 1AJ | 11362 |
| | | | | | | | 1AJ | 11363 |
| | | | | | | | 1AJ | 11364 |
| 5313 | 3232 | SGDB | VFD | 48/0LZZZZZLD,12/0 | GLOBAL DIRECTORY | | 1AJ | 11365 |
| 5314 | 3232 | | | | | | | |
| 5315 | 3214 | | | | | | | |
| 5316 | 0400 | | | | | | | |
| 5317 | 0000 | | | | | | | |
| 5320 | | 5 | SGDC | BSS | 5 | TEMPORARY STORAGE FOR ASSEMBLED NAME | 1AJ | 11366 |

MSR

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|----|------|-----------|--------|---|----------------------------|---------|-----|
| ** | | | | MSR - MASS STORAGE READ ERROR PROCESSOR. | | 242L642 | 533 |
| * | | | | | | 242L642 | 534 |
| * | | | | ENTRY (A) = DRIVER REPLY. | | 242L642 | 535 |
| * | | | | (T5) = EST ORDINAL OF EQUIPMENT WITH ERROR. | | 242L642 | 536 |
| * | | | | (FA) .NE. 0 IF LOCAL FILE LOAD. | | 242L642 | 537 |
| * | | | | (FS - FS+4) = FST ENTRY. | | 242L642 | 538 |
| * | | | | | | 242L642 | 539 |
| * | | | | EXIT TO *1RJ* IF TO ROLL JOB. | | 242L642 | 540 |
| * | | | | TO */TCS/DPP* IF NOT TO ROLL OUT JOB. | | 273L780 | 15 |
| * | | | | | | 242L642 | 542 |
| * | | | | USES CM+1, FS+4, IR+4. | | 273L780 | 16 |
| * | | | | | | 242L642 | 544 |
| * | | | | MACROS EXECUTE, MONITOR NFA. | | 242L642 | 545 |
| | | | | | | 242L642 | 546 |
| | | | | | | 242L642 | 547 |
| | 5325 | | MSR | BSS 0 | ENTRY | 242L642 | 548 |
| | 5325 | 1007 | | SHN 21-12 | | 242L642 | 549 |
| | 5326 | 0736 | | MJN MSR2 | IF NON-RECOVERABLE | 242L642 | 550 |
| | 5327 | 5000 0110 | | LDM MSD | CHECK FOR SUBSYSTEM | 242L642 | 551 |
| | 5331 | 1006 | | SHN 21-13 | | 242L642 | 552 |
| | 5332 | 0632 | | PJN MSR2 | IF A SUBSYSTEM, ABORT JOB | 242L642 | 553 |
| | 5333 | 3005 | | LDD T5 | SET EQUIPMENT TO WAIT FOR | 242L642 | 554 |
| | 5334 | 3454 | | STD IR+4 | | 242L642 | 555 |
| | 5335 | 3057 | | LDD FA | CHECK REQUEST | 242L642 | 556 |
| | 5336 | 0412 | | ZJN MSR1 | IF NOT LOCAL FILE LOAD | 242L642 | 557 |
| | 5337 | 3024 | | LDD FS+4 | SET OPERATION COMPLETE | 242L642 | 558 |
| | 5340 | 1377 | | SCN 77 | | 242L642 | 559 |
| | 5341 | 1105 | | LMN 5 | | 242L642 | 560 |
| | 5342 | 3424 | | STD FS+4 | | 242L642 | 561 |
| | 5343 | 3055 | | NFA FA,R | STORE FST ENTRY | 242L642 | 562 |
| | 5346 | 1601 | | ADN FSTL | | 242L642 | 563 |
| | 5347 | 6220 | | CWD FS | | 242L642 | 564 |
| | 5350 | 5000 3315 | MSR1 | LDM /TCS/MSRA | CHECK JOB ADVANCE SET FLAG | 273L780 | 17 |
| | 5352 | 1201 | | LPN 1 | | 273L780 | 18 |
| | 5353 | 0505 | | NJN MSR1.1 | IF JOB ADVANCE NOT SET | 242L642 | 566 |
| | 5354 | 3411 | | STD CM+1 | CLEAR JOB ADVANCE | 242L642 | 567 |
| | 5355 | 1463 | | MONITOR JACM | | 242L642 | 568 |
| | 5360 | 2034 2212 | MSR1.1 | EXECUTE 1RJ | ROLL JOB | 242L642 | 569 |
| | | | * | LJM PPR | DOES NOT RETURN | 242L642 | 570 |
| | | | | | | 242L642 | 571 |
| | 5364 | 1406 | MSR2 | LDK PPET | ABORT CONTROL POINT | 242L642 | 572 |
| | 5365 | 3411 | | STD CM+1 | | 242L642 | 573 |
| | 5366 | 1454 | | MONITOR CEFM | | 242L642 | 574 |
| | 5371 | 0100 1234 | | LJM /TCS/DPP | DROP PP | 273L780 | 19 |

** COMMON DECKS.

1AJ 11374
1AJ 11375
1AJ 11376

| | | | | | | |
|----|------|-------|---------|-----------------------------|---------|-------|
| 1 | 5373 | CTEXT | COMPCRA | - CONVERT RANDOM ADDRESS. | COMPCRA | 1 |
| 2 | 5473 | CTEXT | COMPRNS | - READ NEXT SECTOR. | COMPRNS | 1 |
| 3 | 5523 | CTEXT | COMPSAF | - SEARCH FOR ASSIGNED FILE. | COMPSAF | 1 |
| 4 | 5573 | CTEXT | COMPSFB | - SET FILE BUSY. | COMPSFB | 1 |
| 5 | | | | | 1AJ | 11381 |
| 6 | 1155 | ERRNG | BFMS | -* | 1AJ | 11382 |
| 7 | | QUAL | | | 1AJ | 11383 |
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1412THE

QUAL 3AJ
 IDENT 3AJ,IJTX INITIATE JOB TERMINATION.
 COMMENT 82/02/26. 95/06/23. 1AJ - INITIATE JOB TERMINATION.
 COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.

1AJ 11386
 NS22000 285
 1AJ 11388
 281L803 15

*** 3AJ - INITIATE JOB TERMINATION.

NS22000 286

*** DAYFILE MESSAGES.

1AJ 11395

* ACCOUNT FILE.

1AJ 11396

* *UEAC, XXXXXX.XXXUNTS.* = AUC ACTIVITY (UNITS).

1AJ 11397

* *UEMP, XXXXXX.XXXKUNS.* = MAP III ACTIVITY (KILO-UNITS).

NS22000 287

* *UECO, XXXXXX.XXXKCHS.* = TERMINAL CHARACTERS OUTPUT.

NS2236 288

* *UECI, XXXXXX.XXXKCHS.* = TERMINAL CHARACTERS INPUT.

NS2236 8

* *UECT, XXXXXX.XXXKCHS.* = TOTAL TERMINAL CHARACTERS.

NS2236 9

* *UEAD, XXXXXX.XXXKUNS.* = APPLICATION UNITS (KILO-UNITS).

NS2236 10

* *UEPF, XXXXXX.XXXKUNS.* = PERMANENT FILE USAGE (KILO-UNITS).

1AJ 11399

* *UEMT, XXXXXX.XXXKUNS.* = MAGNETIC TAPE USAGE (KILO-UNITS).

1AJ 11400

* *UEMS, XXXXXX.XXXKUNS.* = MASS STORAGE USAGE (KILO-UNITS).

1AJ 11401

* *UEOD, XXXXXX.XXXKUNS.* = OPTICAL DISK USAGE (KILO-UNITS).

1AJ 11402

* *UECP, XXXXXX.XXXSECS.* = ACCUMULATED CPU TIME (SECONDS).

1AJ 11403

* *AESR, XXXXXX.XXXUNTS.* = ACCUMULATED SRUS (UNITS).

1AJ 11404

* *AUSR, 000000.000UNTS.* = ACCUMULATED SRUS (UNITS) NOT

1AJ 11407

UPDATED INTO PROJECT PROFILE FILE.

1AJ 11408

* *UEAU, 000000.000UNTS.* = APPLICATION ACCUMULATOR (UNITS).

1AJ 11409

1AJ 11410

1AJ 11411

1AJ 11412

1AJ 11413

1AJ 11414

1412THE

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|----|--------------------------------------|-----|-------|
| ** | ROUTINES USED. | 1AJ | 11419 |
| * | | 1AJ | 11420 |
| * | *0AU* - UPDATE PROJECT PROFILE FILE. | 1AJ | 11421 |

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| **** | DIRECT LOCATION ASSIGNMENTS. | 1AJ | 11423 |
| | | 1AJ | 11424 |
| | | 1AJ | 11425 |
| 37 | NL EQU 37 | 1AJ | 11426 |
| 40 | FN EQU 40 - 44 | 1AJ | 11427 |
| 66 | RC EQU 66 | 1AJ | 11428 |

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| ** | ASSEMBLY CONSTANTS. | 1AJ | 11430 |
| | | 1AJ | 11431 |
| | | 1AJ | 11432 |
| 4 | IMES EQU 4 | 1AJ | 11433 |
| 62 | MTRY EQU 50D | 1AJ | 11434 |
| 40000 | DELY EQU 100000/2 | 1AJ | 11435 |

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| ** | DEFINITION COMMON DECKS. | NS2087 | 1 |
| | | NS2087 | 2 |
| | | NS2087 | 3 |
| | | NS2087 | 4 |
| | | NS2087 | 5 |
| 0 | QUAL COMSHIO | NS2087 | 6 |
| | CTEXT COMSHIO - HIGH-SPEED BUFFERED I/O EQUIVALENCES. | COMSHIO | 1 |
| | QUAL * | NS2087 | 8 |
| | | NS2087 | 9 |
| **** | | 1AJ | 11436 |

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**      IJT - INITIATE JOB TERMINATION.          1AJ      11439
*      1AJ      11440
*      EXIT (A) = 0 IF NO COMMANDS TO EXECUTE.  V23L617    810
*      (A) .NE. 0 IF COMMANDS TO EXECUTE.      V23L617    811
*      1AJ      11444
*      CALLS CAC, CEP, ITS, IUA, PTR, RLF, SUV.  242L642    584
1AJ      11446
1AJ      11447
1AJ      11448
2300     ORG     E1AJ
2300     0100 2300     IJT     SUBR     ENTRY/EXIT      1AJ      11449
2302     0200 4414     RJM     PTR     PRESET JOB TERMINATION  NS22000    293
2304     3037         LDD     NL
2305     0472         ZJN     IJTX    IF NO NFL, RETURN      241L630    225
2306     0200 2353     RJM     CEP     CHECK EPILOGUE REQUIRED  241L630    226
2310     0200 3454     RJM     RLF     RELEASE LOCAL FILES    1AJ      11452
2312     0200 3044     RJM     IUA     ISSUE USER ACCOUNTING MESSAGES  1AJ      11453
2314     0200 2325     RJM     CAC     CLEAR ACCOUNTING ACCUMULATORS  1AJ      11454
2316     0200 3652     RJM     SUV     SET USER VALIDATION LIMITS    1AJ      11455
2320     0200 2577     RJM     ITS     ISSUE TERMINATION COMMANDS  V23L617    812
2322     0355         UJP     IJTX    EXIT                      1AJ      11457
1AJ      11458
1AJ      11459
2323     0000         PFUF    CON     0     PROFILE FILE UPDATE FAILURE FLAG  1AJ      11460
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| | ** | | | CAC - CLEAR USER ACCOUNTING ACCUMULATORS. | | | 1AJ | 11463 |
| | * | | | | | | 1AJ | 11464 |
| | * | | | CLEAR ACCUMULATORS TO PREVENT OVERFLOW DURING | | | 1AJ | 11465 |
| 1 | * | | | JOB TERMINATION PROCESSING. | | | 1AJ | 11466 |
| 2 | * | | | | | | 1AJ | 11467 |
| 3 | * | | | EXIT CPA ACCOUNTING ACCUMULATORS CLEARED. | | | 1AJ | 11468 |
| 4 | * | | | | | | 1AJ | 11469 |
| 5 | * | | | USES T0, CM - CM+4, SP - SP+4. | | | NS2323 | 220 |
| 6 | | | | | | | 1AJ | 11471 |
| 7 | | | | | | | 1AJ | 11472 |
| 8 | | 2324 | 0100 2324 | CAC | SUBR | ENTRY/EXIT | 1AJ | 11473 |
| 9 | | 2326 | 1466 | | LDN ZERL | CLEAR ZERO WORD | 1AJ | 11474 |
| 10 | | 2327 | 6010 | | CRD CM | | 1AJ | 11475 |
| 11 | | 2330 | 3074 | | LDD CP | CLEAR ACCUMULATORS | 1AJ | 11476 |
| 12 | | 2331 | 1651 | | ADK SRUW | | 1AJ | 11477 |
| 13 | | 2332 | 6210 | | CWD CM | | 1AJ | 11478 |
| 14 | | 2333 | 1601 | | ADK CPTW-SRUW | | 1AJ | 11479 |
| 15 | | 2334 | 6210 | | CWD CM | | 1AJ | 11480 |
| 16 | | 2335 | 1601 | | ADK IOAW-CPTW | | 1AJ | 11481 |
| 17 | | 2336 | 6210 | | CWD CM | | 1AJ | 11482 |
| 18 | | 2337 | 1601 | | ADK ADAW-IOAW | | 1AJ | 11483 |
| 19 | | 2340 | 6210 | | CWD CM | | 1AJ | 11484 |
| 20 | | 2341 | 1617 | | ADK CSPW-ADAW | | NS2323 | 221 |
| 21 | | 2342 | 3400 | | STD T0 | | 1AJ | 11486 |
| 22 | | 2343 | 6040 | | CRD SP | | NS2323 | 222 |
| 23 | | 2344 | 3040 | | LDD SP | CLEAR CHARGE REQUIRED FLAG | NS2323 | 223 |
| 24 | | 2345 | 1304 | | SCN 4 | | NS2323 | 224 |
| 25 | | 2346 | 3440 | | STD SP | | NS2323 | 225 |
| 26 | | 2347 | 3000 | | LDD T0 | | 1AJ | 11491 |
| 27 | | 2350 | 6240 | | CWD SP | | NS2323 | 226 |
| 28 | | 2351 | 0352 | | UJN CACX | RETURN | 1AJ | 11493 |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| 32 | | | | | | | | |
| 33 | ** | | | CEP - CHECK EPILOGUE REQUIRED. | | | NS22000 | 296 |
| 34 | * | | | | | | NS22000 | 297 |
| 35 | * | | | EXIT TO IJTX WITH (A) .NE. 0 IF EPILOGUE REQUIRED. | | | NS22000 | 298 |
| 36 | * | | | TO CALLER IF EPILOGUE NOT REQUIRED. | | | NS22000 | 299 |
| 37 | * | | | | | | NS22000 | 300 |
| 38 | * | | | USES CM - CM+4, SP - SP+4, T1. | | | NS22000 | 301 |
| 39 | * | | | | | | NS22000 | 302 |
| 40 | * | | | CALLS ICS. | | | NS22000 | 303 |
| 41 | * | | | | | | NS22000 | 304 |
| 42 | * | | | MACROS NFA. | | | NS22000 | 305 |
| 43 | | | | | | | NS22000 | 306 |
| 44 | | | | | | | NS22000 | 307 |
| 45 | | 2352 | 0100 2352 | CEP | SUBR | ENTRY/EXIT | NS22000 | 308 |
| 46 | | 2354 | 3074 | | LDD CP | READ COMMAND POINTERS | V23L617 | 813 |
| 47 | | 2355 | 1673 | | ADN CSPW | | NS22000 | 310 |
| 48 | | 2356 | 6040 | | CRD SP | | NS22000 | 311 |
| 49 | | 2357 | 3040 | | LDD SP | | NS22000 | 312 |
| 50 | | 2360 | 1016 | | SHN 21-3 | | NS22000 | 313 |
| 51 | | 2361 | 0670 | | PJN CEPX | IF NO EPILOGUE REQUIRED | NS22000 | 314 |
| 52 | | 2362 | 1401 | | LDN CEPAL/5 | SET WORD COUNT | NS22000 | 315 |
| 53 | | 2363 | 3401 | | STD T1 | | NS22000 | 316 |
| 54 | | 2364 | 2000 2372 | | LDC CEPA | SET BUFFER ADDRESS | NS22000 | 317 |
| 55 | | | | | | | | |
| 56 | | | | | | | | |
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| 2366 | 0200 | 2530 | | RJM | ICS | ISSUE LOGOUT COMMAND | V23L617 | 814 |
| 2370 | 0100 | 2300 | | LJM | IJTX | EXIT TO EXECUTE EPILOGUE | NS22000 | 319 |
| | | | | | | | NS22000 | 320 |
| 2372 | | | CEPA | BSS | 0 | LOGOUT COMMAND | V23L617 | 815 |
| 2372 | 5314 | | | VFD | 60/8L\$ | LOGOUT. | NS22000 | 322 |
| 2373 | 1707 | | | | | | | |
| 2374 | 1725 | | | | | | | |
| 2375 | 2457 | | | | | | | |
| 2376 | 0000 | | | | | | | |
| | | | 5 | CEPAL | EQU | *-CEPA | NS22000 | 323 |
| | | | | ** | CUF | - CHECK FOR PROFILE FILE UPDATE FAILURE. | 1AJ | 11495 |
| | | | | * | | | 1AJ | 11496 |
| | | | | * | | ISSUES ACCOUNTING DAYFILE MESSAGE IF PROFILE FILE | 1AJ | 11497 |
| | | | | * | | UPDATE FAILED. | 1AJ | 11498 |
| | | | | * | | | 1AJ | 11499 |
| | | | | * | ENTRY | (PFUF) = SET IF PROFILE FILE UPDATE FAILURE. | 1AJ | 11500 |
| | | | | * | | | 1AJ | 11501 |
| | | | | * | USES | T1. | 1AJ | 11502 |
| | | | | * | | | 1AJ | 11503 |
| | | | | * | CALLS | DFM. | 1AJ | 11504 |
| | | | | | | | 1AJ | 11505 |
| | | | | | | | 1AJ | 11506 |
| 2377 | 0100 | 2377 | CUF | SUBR | | ENTRY/EXIT | 1AJ | 11507 |
| 2401 | 5000 | 2323 | | LDM | PFUF | CHECK UPDATE FAILURE FLAG | 1AJ | 11508 |
| 2403 | 0473 | | | ZJN | CUFX | IF NO UPDATE FAILURE | 1AJ | 11509 |
| 2404 | 5000 | 3256 | | LDM | IUAB+ABSR | CHANGE MESSAGE PREFIX TO *AUSR* | 1AJ | 11510 |
| 2406 | 3401 | | | STD | T1 | | 1AJ | 11511 |
| 2407 | 5400 | 2415 | | STM | CUFA | | 1AJ | 11512 |
| 2411 | 2000 | 0125 | | LDC | 2RAU | | 1AJ | 11513 |
| 2413 | 4401 | | | STI | T1 | | 1AJ | 11514 |
| 2414 | 2005 | 2414 | | LDC | ACFN+* | | 1AJ | 11515 |
| | | | 2415 | CUFA | EQU | *-1 | 1AJ | 11516 |
| 2416 | 0200 | 0423 | | RJM | DFM | ISSUE DAYFILE MESSAGE | 1AJ | 11517 |
| 2420 | 0356 | | | UJN | CUFX | RETURN | 1AJ | 11518 |
| | | | | | | | | |
| | | | | ** | DAM | - DISPLAY ACCOUNT MESSAGES. | 1AJ | 11520 |
| | | | | * | | | 1AJ | 11521 |
| | | | | * | ENTRY | (A) = MESSAGE ADDRESS. | 1AJ | 11522 |
| | | | | * | | (T4) = NUMBER OF MESSAGES - 1 TO DISPLAY. | 1AJ | 11523 |
| | | | | * | | | 1AJ | 11524 |
| | | | | * | USES | T4, T5. | 1AJ | 11525 |
| | | | | * | | | 1AJ | 11526 |
| | | | | * | CALLS | DFM. | 1AJ | 11527 |
| | | | | | | | 1AJ | 11528 |
| | | | | | | | 1AJ | 11529 |
| 2421 | 0100 | 2421 | DAM | SUBR | | ENTRY/EXIT | 1AJ | 11530 |
| 2423 | 5400 | 2426 | | STM | DAMA | SAVE ADDRESS OF MESSAGE | 1AJ | 11531 |
| 2425 | 5004 | 2425 | DAM1 | LDM | *,T4 | GET MESSAGE ADDRESS | 1AJ | 11532 |
| | | | 2426 | DAMA | EQU | *-1 | 1AJ | 11533 |
| 2427 | 3405 | | | STD | T5 | | 1AJ | 11534 |

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| 2430 | 5005 | 0003 | LDM | 3,T5 | | 1AJ | 11535 | |
| 2432 | 0413 | | ZJN | DAM2 | IF QUANTITY ZERO (NO MESSAGE DISPLAYED) | 1AJ | 11536 | |
| 2433 | 3005 | | LDD | T5 | | 1AJ | 11537 | |
| 2434 | 2303 | 0000 | LMC | CPON | | 1AJ | 11538 | |
| 2436 | 0200 | 0423 | RJM | DFM | DISPLAY IN USERS DAYFILE | 1AJ | 11539 | |
| 2440 | 3005 | | LDD | T5 | | 1AJ | 11540 | |
| 2441 | 2305 | 0000 | LMC | ACFN | | 1AJ | 11541 | |
| 2443 | 0200 | 0423 | RJM | DFM | DISPLAY IN ACCOUNT FILE | 1AJ | 11542 | |
| 2445 | 3704 | | DAM2 | SOD | T4 | DECREMENT MESSAGE COUNT | 1AJ | 11543 |
| 2446 | 0656 | | PJN | DAM1 | IF MORE MESSAGES | 1AJ | 11544 | |
| 2447 | 0351 | | UJN | DAMX | RETURN | 1AJ | 11545 | |
| | | | *** | IAA | - ISSUE APPLICATION ACCOUNTING MESSAGE. | 1AJ | 11547 | |
| | | | * | | | 1AJ | 11548 | |
| | | | * | ENTRY | (CM - CM+4) = CONTROL POINT WORD *PPFW*. | 1AJ44 | 1 | |
| | | | * | | (A) = APPLICATION ACCOUNTING FLAGS. | 1AJ44 | 2 | |
| | | | * | | | 1AJ44 | 3 | |
| | | | * | EXIT | *UEAU* ACCOUNTING MESSAGE ISSUED. | 1AJ | 11549 | |
| | | | * | | | 1AJ | 11550 | |
| | | | * | USES | CM - CM+4, T2 - T7. | 1AJ44 | 4 | |
| | | | * | | | 1AJ | 11552 | |
| | | | * | CALLS | DFM. | 1AJ | 11553 | |
| | | | * | | | 1AJ | 11554 | |
| | | | * | MACROS | MONITOR. | 1AJ | 11555 | |
| | | | | | | 1AJ | 11556 | |
| | | | | | | 1AJ | 11557 | |
| 2450 | 0100 | 2450 | IAA | SUBR | ENTRY/EXIT | 1AJ | 11558 | |
| 2452 | 3402 | | STD | T2 | SAVE FLAGS | 1AJ44 | 5 | |
| 2453 | 3010 | | LDD | CM | CLEAR APPLICATION ACCOUNTING FLAGS | 1AJ44 | 6 | |
| 2454 | 2200 | 6377 | LPC | 6377 | | 1AJ44 | 7 | |
| 2456 | 3410 | | STD | CM | | 1AJ44 | 8 | |
| 2457 | 3074 | | LDD | CP | | 1AJ44 | 9 | |
| 2460 | 1662 | | ADK | PPFW | | 1AJ44 | 10 | |
| 2461 | 6210 | | CWD | CM | | 1AJ44 | 11 | |
| 2462 | 1710 | | SBN | PPFW-CPTW | CP ACCUMULATOR WORD | 1AJ44 | 12 | |
| 2463 | 6003 | | CRD | T3 | | 1AJ | 11561 | |
| 2464 | 1607 | | ADN | CPJW-CPTW | CP TIME JOB STEP WORD | 1AJ | 11562 | |
| 2465 | 6010 | | CRD | CM | | 1AJ | 11563 | |
| 2466 | 3002 | | LDD | T2 | CHECK APPLICATION ACCOUNTING IN PROGRESS | 1AJ44 | 13 | |
| 2467 | 1010 | | SHN | 21-11 | | 1AJ44 | 14 | |
| 2470 | 0657 | | PJN | IAAX | IF APPLICATION ACCOUNTING NOT IN PROGRESS | 1AJ44 | 15 | |
| 2471 | 3077 | | LDD | MA | WRITE WORDS TO MESSAGE BUFFER | 1AJ | 11564 | |
| 2472 | 6203 | | CWD | T3 | | 1AJ | 11565 | |
| 2473 | 1601 | | ADN | 1 | | 1AJ | 11566 | |
| 2474 | 6210 | | CWD | CM | | 1AJ | 11567 | |
| 2475 | 1407 | | LDN | ABUS | | 1AJ | 11568 | |
| 2476 | 3411 | | STD | CM+1 | SET *ACTM* SUB-FUNCTION (ABUS) | 1AJ | 11569 | |
| 2477 | 1425 | | MONITOR | ACTM | CALCULATE CP TIME USED FOR JOB STEP | 1AJ | 11570 | |
| 2502 | 3077 | | LDD | MA | READ CONVERSION INTO MESSAGE AREA | 1AJ | 11571 | |
| 2503 | 6170 | 2516 | CRM | IAAA+3,ON | | 1AJ | 11572 | |
| 2505 | 2005 | 2513 | LDC | ACFN+IAAA | | 1AJ | 11573 | |
| 2507 | 0200 | 0423 | RJM | DFM | DISPLAY IN ACCOUNT FILE | 1AJ | 11574 | |
| 2511 | 0100 | 2450 | LJM | IAAX | EXIT | 1AJ | 11575 | |
| | | | | | | 1AJ | 11576 | |

| Line | Address | Code | Label | Description | Address | Code | Label | Description | Address | Code | Label | Description |
|------|---------|-----------|-------|--------------------------------------|--------------------------|---------|-------|-------------|---------|---------|-------|-------------|
| 1 | 2513 | 2505 | IAAA | DATA | C*UEAU, 000000.000UNTS.* | 1AJ | | | 11577 | 1AJ | | 11578 |
| 2 | | | | | | 1AJ | | | 11579 | 1AJ | | 11580 |
| 6 | | | ** | ICS - ISSUE COMMANDS. | | V23L617 | | | 816 | NS22000 | | 326 |
| 7 | | | * | | | V23L617 | | | 817 | NS22000 | | 328 |
| 8 | | | * | ISSUES COMMANDS SPECIFIED BY CALLER. | | V23L617 | | | 818 | V23L617 | | 819 |
| 9 | | | * | | | NS22000 | | | 331 | V23L617 | | 820 |
| 10 | | | * | ENTRY (A) = COMMAND ADDRESS. | | NS22000 | | | 332 | V23L617 | | 821 |
| 11 | | | * | (T1) = WORD COUNT OF COMMANDS. | | V23L617 | | | 822 | NS22000 | | 334 |
| 12 | | | * | | | NS22000 | | | 335 | V23L617 | | 823 |
| 13 | | | * | EXIT (A) .NE. 0. | | NS22000 | | | 336 | NS22000 | | 337 |
| 14 | | | * | COMMANDS ENTERED IN COMMAND | | V23L617 | | | 824 | NS22000 | | 338 |
| 15 | | | * | BUFFER. | | NS22000 | | | 339 | V23L617 | | 825 |
| 16 | | | * | *SHELL* CONTROL CLEARED. | | NS22000 | | | 340 | NS22000 | | 341 |
| 17 | | | * | | | NS22000 | | | 342 | 1AJ73 | | 1 |
| 18 | | | * | USES CM - CM+4, SP - SP+4. | | 1AJ73 | | | 2 | NS22000 | | 338 |
| 19 | | | * | | | NS22000 | | | 339 | NS22000 | | 339 |
| 20 | | | * | MACROS NFA. | | NS22000 | | | 340 | NS22000 | | 341 |
| 21 | | | | | | NS22000 | | | 342 | NS22000 | | 342 |
| 22 | 2527 | 0100 2527 | ICS | SUBR | ENTRY/EXIT | NS22000 | | | 342 | V23L617 | | 821 |
| 23 | 2531 | 5400 2565 | | STM | ICSA | V23L617 | | | 821 | V23L617 | | 822 |
| 24 | 2533 | 3074 | | LDD | CP | V23L617 | | | 822 | NS22000 | | 345 |
| 25 | 2534 | 1673 | | ADN | CSPW | NS22000 | | | 345 | NS22000 | | 346 |
| 26 | 2535 | 6040 | | CRD | SP | NS22000 | | | 346 | 1AJ73 | | 2 |
| 27 | 2536 | 1601 | | ADN | CSSW-CSPW | 1AJ73 | | | 2 | 1AJ73 | | 3 |
| 28 | 2537 | 6010 | | CRD | CM | 1AJ73 | | | 3 | 1AJ73 | | 4 |
| 29 | 2540 | 3010 | | LDD | CM | 1AJ73 | | | 4 | 1AJ73 | | 5 |
| 30 | 2541 | 2200 5777 | | LPC | 5777 | 1AJ73 | | | 5 | 1AJ73 | | 6 |
| 31 | 2543 | 3410 | | STD | CM | 1AJ73 | | | 6 | V23L617 | | 823 |
| 32 | 2544 | 2000 4000 | | LDC | 4000 | V23L617 | | | 823 | NS22000 | | 348 |
| 33 | 2546 | 3441 | | STD | SP+1 | NS22000 | | | 348 | V23L617 | | 824 |
| 34 | 2547 | 2000 0205 | | LDC | CSBN | V23L617 | | | 824 | NS22000 | | 350 |
| 35 | 2551 | 3443 | | STD | SP+3 | NS22000 | | | 350 | NS22000 | | 351 |
| 36 | 2552 | 3201 | | SBD | T1 | NS22000 | | | 351 | NS22000 | | 352 |
| 37 | 2553 | 3444 | | STD | SP+4 | NS22000 | | | 352 | V23L617 | | 825 |
| 38 | 2554 | 3074 | | LDD | CP | V23L617 | | | 825 | NS22000 | | 354 |
| 39 | 2555 | 1673 | | ADN | CSPW | NS22000 | | | 354 | NS22000 | | 355 |
| 40 | 2556 | 6240 | | CWD | SP | NS22000 | | | 355 | 1AJ73 | | 7 |
| 41 | 2557 | 1601 | | ADN | CSSW-CSPW | 1AJ73 | | | 7 | 1AJ73 | | 8 |
| 42 | 2560 | 6210 | | CWD | CM | 1AJ73 | | | 8 | V23L617 | | 826 |
| 43 | 2561 | 3055 | | NFA | SP+3,R | V23L617 | | | 826 | NS22000 | | 357 |
| 44 | 2564 | 6301 2564 | | CWM | *,T1 | NS22000 | | | 357 | V23L617 | | 827 |
| 45 | | | 2565 | ICSA | EQU *-1 | V23L617 | | | 827 | NS22000 | | 359 |
| 46 | 2566 | 1466 | | LDN | ZERL | NS22000 | | | 359 | NS22000 | | 360 |
| 47 | 2567 | 6010 | | CRD | CM | NS22000 | | | 360 | NS22000 | | 361 |
| 48 | 2570 | 3055 | | NFA | SHCN | NS22000 | | | 361 | NS22000 | | 362 |
| 49 | 2573 | 6210 | | CWD | CM | NS22000 | | | 362 | 1AJ73 | | 9 |
| 50 | 2574 | 0100 2527 | | LJM | ICSX | 1AJ73 | | | 9 | | | |

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| | ** | | | | ITS - ISSUE JOB TERMINATION COMMANDS. | V23L617 | 828 |
| | * | | | | | NS22000 | 366 |
| | * | | | | ISSUES JOB TERMINATION COMMANDS BASED ON THE | V23L617 | 829 |
| 1 | * | | | | DISPOSITION OF THE JOB. | NS22000 | 368 |
| 2 | * | | | | | NS22000 | 369 |
| 3 | * | | | | ENTRY (JTFG) = JOB TERMINATION FLAGS. | NS22000 | 370 |
| 4 | * | | | | (JTOP) = JOB TERMINATION OPTION. | NS22000 | 371 |
| 5 | * | | | | (ITSA) = QUEUED FILES FLAG. | NS22000 | 372 |
| 6 | * | | | | | NS22000 | 373 |
| 7 | * | | | | EXIT (A) = 0, IF NO JOB TERMINATION COMMANDS TO PROCESS. | 241L630 | 227 |
| 8 | * | | | | | 241L630 | 228 |
| 9 | * | | | | USES CM - CM+4, T1 - T7. | 241L630 | 229 |
| 10 | * | | | | | NS22000 | 375 |
| 11 | * | | | | CALLS ICS, MSR, RSS. | 242L642 | 585 |
| 12 | * | | | | | 241L630 | 231 |
| 13 | * | | | | MACROS ENDMS, NFA, SETMS. | 241L630 | 232 |
| 14 | | | | | | NS22000 | 377 |
| 15 | | | | | | NS22000 | 378 |
| 16 | | 2576 | 0100 2576 | | ITS SUBR ENTRY/EXIT | NS22000 | 379 |
| 17 | | 2600 | 1407 | | LDN ITSCL/5 PRESET WORD COUNT | 1AJ46 | 45 |
| 18 | | 2601 | 3401 | | STD T1 | 1AJ46 | 46 |
| 19 | | 2602 | 1207 | | LPN 7 | 242L642 | 586 |
| 20 | | 2603 | 5000 1110 | | LDM JTOP GET JOB TERMINATION OPTION | 241L630 | 233 |
| 21 | | 2605 | 1705 | | SBN NXJT | 241L630 | 234 |
| 22 | | 2606 | 0606 | | PJN ITS1 IF BAD TERMINATION CODE | 241L630 | 235 |
| 23 | | 2607 | 1605 | | ADN NXJT | 241L630 | 236 |
| 24 | | 2610 | 3410 | | STD CM | 241L630 | 237 |
| 25 | | 2611 | 5010 3032 | | LDM ITSE,CM | 241L630 | 238 |
| 26 | | 2613 | 0521 | | NJN ITS4 IF TERMINATION COMMAND PREPROCESSOR | 241L630 | 239 |
| 27 | | 2614 | 5000 1111 | | ITS1 LDM JTFG | 241L630 | 240 |
| 28 | | 2616 | 1207 | | LPN 7 | NS22000 | 387 |
| 29 | | 2617 | 1101 | | LMN NOJT | NS22000 | 388 |
| 30 | | 2620 | 0506 | | NJN ITS2 IF OUTPUT NOT TO BE DROPPED | 1AJ46 | 59 |
| 31 | | 2621 | 2000 0000 | | LDC 0 | NS22000 | 390 |
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| 2741 | 0000 | | | | | | | |
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| 2746 | 0451 | | | | | | | | |
| 2747 | 4750 | | | | | | | | |
| 2750 | 1720 | | | VFD | 60/5LOP=0) | | 274L797 | 7 | |
| 2751 | 5417 | | | | | | | | |
| 2752 | 5200 | | | | | | | | |
| 2753 | 0000 | | | | | | | | |
| 2754 | 0000 | | | | | | | | |
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| 2756 | 0131 | | | | | | | | |
| 2757 | 0611 | | | | | | | | |
| 2760 | 1405 | | | | | | | | |
| 2761 | 5117 | | | | | | | | |
| 2762 | 2524 | | | VFD | 60/10LUTPUT, JT=D | | NS22000 | 415 | |
| 2763 | 2025 | | | | | | | | |
| 2764 | 2456 | | | | | | | | |
| 2765 | 1224 | | | | | | | | |
| 2766 | 5404 | | | | | | | | |
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| 2770 | 0000 | | | | | | | | |
| 2771 | 0000 | | | | | | | | |
| 2772 | 0000 | | | | | | | | |
| 2773 | 0000 | | | | | | | | |
| | | 43 | ITSCL | EQU | *-ITSB | | NS22000 | 417 | |
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| | | * | | | RERUN JOB TERMINATION COMMANDS. | | 1AJ46 | 64 | |
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| 2774 | 5322 | | ITSD | VFD | 60/10L\$RETURN(OU | | 1AJ46 | 66 | |
| 2775 | 0524 | | | | | | | | |
| 2776 | 2522 | | | | | | | | |
| 2777 | 1651 | | | | | | | | |
| 3000 | 1725 | | | | | | | | |
| 3001 | 2420 | | | VFD | 60/5LTPUT) | | 1AJ46 | 67 | |
| 3002 | 2524 | | | | | | | | |
| 3003 | 5200 | | | | | | | | |
| 3004 | 0000 | | | | | | | | |
| 3005 | 0000 | | | | | | | | |
| 3006 | 5304 | | | VFD | 60/10L\$DAYFILE. | | 1AJ46 | 68 | |
| 3007 | 0131 | | | | | | | | |
| 3010 | 0611 | | | | | | | | |
| 3011 | 1405 | | | | | | | | |
| 3012 | 5755 | | | | | | | | |
| 3013 | 0000 | | | VFD | 60/0 | | 1AJ46 | 69 | |
| 3014 | 0000 | | | | | | | | |
| 3015 | 0000 | | | | | | | | |
| 3016 | 0000 | | | | | | | | |
| 3017 | 0000 | | | | | | | | |
| 3020 | 5322 | | | VFD | 60/10L\$ROUTE, OUT | | 1AJ46 | 70 | |
| 3021 | 1725 | | | | | | | | |
| 3022 | 2405 | | | | | | | | |
| 3023 | 5617 | | | | | | | | |
| 3024 | 2524 | | | | | | | | |
| 3025 | 2025 | | | VFD | 60/4LPUT. | | 1AJ46 | 71 | |
| 3026 | 2457 | | | | | | | | |
| 3027 | 0000 | | | | | | | | |
| 3030 | 0000 | | | | | | | | |
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ITSF

CON HRTL+1

241L630 301

3040

0003

CON MSER+1

241L630 302

** IUA - ISSUE USER ACCOUNTING DAYFILE MESSAGES.

1AJ 11650

*

1AJ 11651

* USES T1 - T7, CM - CM+4.

1AJ 11652

*

1AJ 11653

* CALLS CUF, DAM, IAA, SCM, UPF.

1AJ 11654

*

1AJ 11655

* MACROS MONITOR.

1AJ 11656

1AJ 11657

1AJ 11658

3041

0200 2400

IUA5

RJM CUF

CHECK FOR PROFILE FILE UPDATE FAILURE

1AJ 11659

3043

0100 3043

IUA

SUBR

ENTRY/EXIT

1AJ 11660

3045

3074

LDD CP

READ JOB CONTROL INFORMATION

1AJ 11661

3046

1621

ADK CWQW

271L750 115

3047

6010

CRD CM

1AJ 11664

3050

3010

LDD CM

CHECK CPU PRIORITY

1AJ 11665

3051

2200 1770

LPC 1770

271L750 116

3053

0467

ZJN IUAX

IF CPU PRIORITY = 0

1AJ 11667

3054

0200 3770

RJM UPF

UPDATE PROJECT PROFILE FILE

1AJ 11668

1AJ 11669

* ISSUE APPLICATION ACCOUNTING MESSAGE

1AJ 11670

1AJ 11671

3056

3074

LDD CP

READ APPLICATION ACCOUNTING CONTROL WORD

1AJ 11672

3057

1662

ADN FPFW

1AJ 11673

3060

6010

CRD CM

1AJ 11674

3061

3010

LDD CM

CHECK FOR APPLICATION ACCOUNTING

1AJ 11675

3062

2200 1400

LPC 1400

1AJ44 16

3064

0403

ZJN IUA1

IF APPLICATION ACCOUNTING NOT ACTIVE

1AJ44 17

3065

0200 2451

RJM IAA

ISSUE APPLICATION ACCOUNTING MESSAGE

1AJ 11678

3067

1404

IUA1

LDN ACTWL

1AJ 11679

3070

3404

STD T4

1AJ 11680

3071

3074

LDD CP

1AJ 11681

3072

1651

ADN ACTW

1AJ 11682

3073

6104 4425

CRM ACCT,T4

STORE IN TEMPORARY AREA

1AJ 11683

1AJ 11684

* SPECIAL CHECK FOR SYSTEM JOB.

1AJ 11685

1AJ 11686

3075

5000 1106

LDM JBOT

CHECK JOB ORIGIN

1AJ 11687

3077

0512

NJN SYOT

IF NOT SYSTEM ORIGIN

1AJ 11688

3100

1404

LDN 4

1AJ 11690

3101

3405

STD T5

CHECK SRU ACCUMULATOR

1AJ 11691

3102

5005 4425

IUA2

LDM ACCT+5*SRUW-5*ACTW,T5

1AJ 11692

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| | | | | | | | |
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| 3104 | 0505 | | NJN | IUA3 | IF SRU ACCUMULATOR NOT ZERO | 1AJ | 11693 |
| 3105 | 3705 | | SOD | T5 | | 1AJ | 11694 |
| 3106 | 0573 | | NJN | IUA2 | IF MORE TO CHECK | 1AJ | 11695 |
| 3107 | 0100 3041 | | UJP | IUA5 | CHECK PROFILE FILE UPDATE FAILURE | 1AJ | 11696 |
| | | | | | | 1AJ | 11697 |
| | | | * | | CONVERT CONTROL POINT AREA ACCUMULATORS. | 1AJ | 11698 |
| | | | | | | 1AJ | 11699 |
| 3111 | 3077 | | IUA3 | LDD | MA | 1AJ | 11700 |
| 3112 | 6304 4425 | | CWM | ACCT,T4 | TRANSFER FROM TEMPORARY STORAGE | 1AJ | 11701 |
| 3114 | 1405 | | LDN | ABVF | | 1AJ | 11702 |
| 3115 | 3411 | | STD | CM+1 | SET *ACTM* SUB-FUNCTION (ABVF) | 1AJ | 11703 |
| 3116 | 1425 | | MONITOR | ACTM | CONVERT ACCUMULATORS | 1AJ | 11704 |
| 3121 | 1405 | | LDN | ABNA-1 | | 1AJ | 11705 |
| 3122 | 3404 | | STD | T4 | STORE CONVERSIONS IN MESSAGES | 1AJ | 11706 |
| 3123 | 2000 3256 | | LDC | IUAB | SET MESSAGE ADDRESS | 1AJ | 11707 |
| 3125 | 0200 3632 | | RJM | SCM | STORE CONVERSIONS IN MESSAGE | 1AJ | 11708 |
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| 3133 | 3014 | | LDD | CM+4 | SET OUTPUT COUNT | V23L617 | 842 |
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| 3136 | 3013 | | LDD | CM+3 | SET INPUT COUNT | V23L617 | 844 |
| 3137 | 5400 3323 | | STM | IUAF+7 | | V23L617 | 845 |
| 3141 | 3114 | | ADD | CM+4 | SET COMBINED COUNT | V23L617 | 846 |
| 3142 | 5400 3307 | | STM | IUAE+7 | | V23L617 | 847 |
| 3144 | 1063 | | SHN | -14 | | V23L617 | 848 |
| 3145 | 3112 | | ADD | CM+2 | | V23L617 | 849 |
| 3146 | 5400 3306 | | STM | IUAE+6 | | V23L617 | 850 |
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| 3155 | 6370 3333 | | CWM | IUAG+3,ON | | V23L617 | 854 |
| 3157 | 1403 | | LDN | RCIS+3 | SET F10.3 CONVERSION AND REQUEST COUNT | V23L617 | 855 |
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| 3161 | 1400 | | LDN | 0 | | V23L617 | 857 |
| 3162 | 3412 | | STD | CM+2 | | V23L617 | 858 |
| 3163 | 1440 | | MONITOR | RDCM | CONVERT CHARACTER COUNTS | V23L617 | 859 |
| 3166 | 3077 | | LDD | MA | | V23L617 | 860 |
| 3167 | 6170 3303 | | CRM | IUAE+3,ON | READ CONVERSIONS TO MESSAGE | V23L617 | 861 |
| 3171 | 6170 3317 | | CRM | IUAF+3,ON | | V23L617 | 862 |
| 3173 | 6170 3333 | | CRM | IUAG+3,ON | | V23L617 | 863 |
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| 3176 | 3404 | | STD | T4 | | NS22000 | 419 |
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| 3224 | 5000 3256 | | LDM | IUAB+ABSR | | 1AJ | 11731 | |
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| | | | ** | | MSR - MASS STORAGE ERROR PROCESSING. | | 242L642 | 596 |
| | | | * | | | | 242L642 | 597 |
| | | | * | ENTRY | (A) = MASS STORAGE DRIVER RETURN IF .LT. 0. | | NS2719 | 104 |
| | | | * | | (A) = 0 TO FORCE *1RJ* CALL. | | NS2719 | 105 |
| | | | * | | (T5) = EST ORDINAL OF INACCESSIBLE DEVICE. | | NS2719 | 106 |
| | | | * | | | | 242L642 | 601 |
| | | | * | EXIT | TO *1RJ* IF NOT NON-RECOVERABLE ERROR. | | NS2719 | 107 |
| | | | * | | TO CALLER IF NON-RECOVERABLE ERROR. | | NS2719 | 108 |
| | | | * | | | | NS2719 | 109 |
| | | | * | USES | CM+1, IR+4. | | 242L642 | 602 |
| | | | * | | | | 242L642 | 605 |
| | | | * | MACROS | EXECUTE, MONITOR. | | 242L642 | 606 |
| | | | | | | | 242L642 | 607 |
| | | | | | | | 242L642 | 608 |
| | 3344 | 0100 3344 | MSR | SUBR | ENTRY | | 242L642 | 609 |
| | 3346 | 1007 | | SHN | 21-12 | | 242L642 | 611 |
| | 3347 | 0774 | | MJN | MSRX | IF NON-RECOVERABLE ERROR | NS2719 | 110 |
| | 3350 | 3005 | | LDD | T5 | SET EQUIPMENT TO WAIT FOR | 242L642 | 616 |
| | 3351 | 3454 | | STD | IR+4 | | 242L642 | 617 |
| | 3352 | 1400 | | LDN | 0 | CLEAR JOB ADVANCE | 242L642 | 618 |
| | 3353 | 3411 | | STD | CM+1 | | 242L642 | 619 |
| | 3354 | 1463 | | MONITOR | JACM | | 242L642 | 620 |
| | 3357 | 2034 2212 | | EXECUTE | 1RJ | RECALL *1AJ* AND ROLL OUT JOB IF POSSIBLE | NS2719 | 111 |

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| | | | | | | | | | | | |
|----|----|------|-----------|------|--------|-------|----------------|---|--|---------|-------|
| | ** | | | | | | | | | 1AJ | 11781 |
| | * | | | | | | | | | 1AJ | 11782 |
| | * | | | | | | | | | 1AJ | 11783 |
| 1 | * | | | | | | | | | V23L617 | 873 |
| 2 | * | | | | | | | | | 1AJ | 11785 |
| 3 | * | | | | | | | | | 1AJ | 11786 |
| 4 | * | | | | | | | | | 1AJ | 11787 |
| 5 | * | | | | | | | | | 1AJ | 11788 |
| 6 | * | | | | | | | | | 1AJ | 11789 |
| 7 | * | | | | | | | | | NS22000 | 425 |
| 8 | * | | | | | | | | | 1AJ | 11790 |
| 9 | * | | | | | | | | | 1AJ | 11791 |
| 10 | * | | | | | | | | | NS22000 | 426 |
| 11 | * | | | | | | | | | 1AJ | 11792 |
| 12 | * | | | | | | | | | 1AJ | 11793 |
| 13 | * | | | | | | | | | 1AJ | 11794 |
| 14 | * | | | | | | | | | NS2719 | 112 |
| 15 | * | | | | | | | | | 1AJ | 11796 |
| 16 | * | | | | | | | | | 242L642 | 623 |
| 17 | * | | | | | | | | | 1AJ | 11798 |
| 18 | * | | | | | | | | | NS22000 | 427 |
| 19 | | | | | | | | | | 1AJ | 11800 |
| 20 | | | | | | | | | | 1AJ | 11801 |
| 21 | | 3363 | 2000 0000 | | RLF7 | LDC | 0 | | | NS2719 | 113 |
| 22 | | | | 3364 | RLFC | EQU | *-1 | EST ORDINAL OF INACCESSIBLE DEVICE | | NS2719 | 114 |
| 23 | | 3365 | 0405 | | | ZJN | RLF7.1 | IF NO INACCESSIBLE DEVICE | | NS2719 | 115 |
| 24 | | 3366 | 3405 | | | STD | T5 | | | 242L642 | 628 |
| 25 | | 3367 | 1400 | | | LDN | 0 | FORCE *1RJ* CALL | | NS2719 | 116 |
| 26 | | 3370 | 0200 3345 | | | RJM | MSR | PROCESS MASS STORAGE ERROR (NO RETURN) | | NS2719 | 117 |
| 27 | | | | | | | | | | 242L642 | 631 |
| 28 | | 3372 | 2000 0000 | | RLF7.1 | LDC | ** | SET JOB TERMINATION MODE | | 242L642 | 635 |
| 29 | | | | 3373 | RLFB | EQU | *-1 | (EJT ORDINAL) | | NS22000 | 429 |
| 30 | | 3374 | 0200 2174 | | | SFA | EJT | SET JOB TERMINATION MODE | | 242L642 | 636 |
| 31 | | 3376 | 1601 | | | ADK | SCHE | | | NS22000 | 431 |
| 32 | | 3377 | 6020 | | | CRD | FS | | | NS22000 | 432 |
| 33 | | 3400 | 3022 | | | LDD | FS+2 | | | NS22000 | 433 |
| 34 | | 3401 | 2200 3000 | | | LPC | 3000 | | | 242L642 | 637 |
| 35 | | 3403 | 5400 1111 | | | STM | JTFG | | | 242L642 | 638 |
| 36 | | | | | | LMK | NOTM*1000 | | | 242L642 | 639 |
| 37 | | 3405 | 0513 | | | NJN | RLF8 | IF TERMINATION MODE ALREADY SET | | 242L642 | 640 |
| 38 | | 3406 | 3072 | | | LDD | TH | | | 242L642 | 641 |
| 39 | | | | 0 | | ERRNZ | 1000*NLTM-1000 | CODE ASSUMES *NLTM* = 1 | | 242L642 | 642 |
| 40 | | 3407 | 5400 1111 | | | STM | JTFG | | | 242L642 | 643 |
| 41 | | 3411 | 3522 | | | RAD | FS+2 | | | 242L642 | 644 |
| 42 | | 3412 | 5000 3373 | | | LDM | RLFB | | | NS22000 | 437 |
| 43 | | 3414 | 0200 2174 | | | SFA | EJT | | | NS22000 | 438 |
| 44 | | 3416 | 1601 | | | ADK | SCHE | | | NS22000 | 439 |
| 45 | | 3417 | 6220 | | | CWD | FS | | | NS22000 | 440 |
| 46 | | 3420 | 3074 | | RLF8 | LDD | CP | SET TERMINATION/QUEUED FILE DISPOSITION | | 242L642 | 645 |
| 47 | | 3421 | 1627 | | | ADK | EOJW | | | 242L642 | 646 |
| 48 | | 3422 | 6010 | | | CRD | CM | | | 242L642 | 647 |
| 49 | | 3423 | 3026 | | | LDD | CN+1 | | | 1AJ | 11810 |
| 50 | | 3424 | 5400 2622 | | | STM | ITSA | SET QUEUED FILES FLAG | | NS22000 | 441 |
| 51 | | 3426 | 0520 | | | NJN | RLF9 | IF QUEUED FILES PRESENT | | 242L642 | 648 |
| 52 | | 3427 | 5000 1106 | | | LDM | JBOT | | | 1AJ | 11812 |
| 53 | | 3431 | 1100 | | | LMN | SYOT | | | 1AJ | 11813 |
| 54 | | 3432 | 0514 | | | NJN | RLF9 | IF NOT SYSTEM ORIGIN | | 242L642 | 649 |

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|------|------|--------|-------|------------|---|---------|-------|
| 3433 | 3074 | | LDD | CP | SET *NOJT* JOB TERMINATION OPTION | 241L630 | 304 |
| 3434 | 1627 | | ADK | EOJW | | 241L630 | 305 |
| 3435 | 6010 | | CRD | CM | | 241L630 | 306 |
| 3436 | 3010 | | LDD | CM | | 241L630 | 307 |
| 3437 | 2200 | 7077 | LPC | 7077 | | 1AJ | 11816 |
| 3441 | 3371 | | LMD | HN | | 241L630 | 308 |
| | | 0 | ERRNZ | NOJT-1 | CODE ASSUMES *NOJT* = 1 | 241L630 | 309 |
| 3442 | 3410 | | STD | CM | | 1AJ | 11818 |
| 3443 | 3074 | | LDD | CP | REWRITE END OF JOB STATUS | NS22000 | 446 |
| 3444 | 1627 | | ADK | EOJW | | 1AJ | 11821 |
| 3445 | 6210 | | CWD | CM | | 1AJ | 11822 |
| 3446 | 3010 | RLF9 | LDD | CM | SET TERMINATION/QUEUED FILE DISPOSITION | 242L642 | 650 |
| 3447 | 1071 | | SHN | -6 | | 242L642 | 651 |
| 3450 | 1237 | | LPN | 37 | | 242L642 | 652 |
| 3451 | 5500 | 1111 | RAM | JTFG | | 242L642 | 653 |
| | | | | | | 1AJ | 11823 |
| 3453 | 0100 | 3453 | RLF | SUBR | ENTRY/EXIT | 1AJ | 11824 |
| | | | | | | 1AJ | 11825 |
| | | | * | | INITIALIZE FNT SEARCH INDEX AT *FNTN* + *LENF* SO THE | 1AJ | 11826 |
| | | | * | | *INPUT* FILE IS NOT RETURNED. THE *INPUT* FILE | 1AJ | 11827 |
| | | | * | | IS ALWAYS THE FIRST FNT ENTRY. | 1AJ | 11828 |
| | | | | | | 1AJ | 11829 |
| 3455 | 2000 | 0324 | LDK | FNTN | INITIALIZE FNT INDEX | 1AJ | 11830 |
| 3457 | 3425 | | STD | CN | | 1AJ | 11831 |
| 3460 | 1400 | | LDN | 0 | INITIALIZE QUEUED FILES PRESENT FLAG | 1AJ | 11832 |
| 3461 | 3426 | | STD | CN+1 | | 1AJ | 11833 |
| 3462 | 1403 | RLF1 | LDK | LENF | ADVANCE FNT INDEX | 1AJ | 11834 |
| 3463 | 3525 | | RAD | CN | | 1AJ | 11835 |
| 3464 | 3237 | | SBD | NL | | 1AJ | 11836 |
| 3465 | 0703 | | PJP | RLF7 | IF END OF FNT-S | 1AJ | 11837 |
| 3470 | 3055 | | NFA | CN,R | SET FNT ADDRESS | 1AJ | 11838 |
| 3473 | 6040 | | CRD | FN | READ FNT WORD | 1AJ | 11839 |
| 3474 | 1601 | | ADN | FSTL | READ FST WORD | 1AJ | 11840 |
| 3475 | 6020 | | CRD | FS | | 1AJ | 11841 |
| 3476 | 3040 | | LDD | FN | | 1AJ | 11842 |
| 3477 | 0462 | | ZJN | RLF1 | IF NULL ENTRY | 1AJ | 11843 |
| 3500 | 3044 | | LDD | FN+4 | | 1AJ | 11844 |
| 3501 | 1071 | | SHN | -6 | | 1AJ | 11845 |
| 3502 | 1120 | | LMK | QFFT | | 1AJ | 11846 |
| 3503 | 0503 | | NJN | RLF3 | IF NOT QUEUED FILE | 1AJ | 11847 |
| 3504 | 3626 | RLF2 | AOD | CN+1 | SET QUEUED FILE PROCESSED FLAG | 1AJ | 11848 |
| 3505 | 0354 | RLF2.1 | UJN | RLF1 | PROCESS NEXT FNT ENTRY | 274L797 | 8 |
| | | | | | | 1AJ | 11850 |
| 3506 | 3020 | RLF3 | SFA | EST,FS | READ EST ENTRY FOR THIS FNT | NS22000 | 447 |
| | | | ADK | EQDE | | NS22000 | 448 |
| 3511 | 6010 | | CRD | CM | | 1AJ | 11853 |
| 3512 | 3010 | | LDD | CM | | 1AJ | 11854 |
| 3513 | 1006 | | SHN | 21-13 | | 1AJ | 11855 |
| 3514 | 0631 | | PJN | RLF5 | IF NOT MASS STORAGE | 274L797 | 9 |
| | | | | | | 1AJ | 11857 |
| | | * | | | SEARCH TABLE FOR MATCH ON SPECIAL FILE NAME. | 1AJ | 11858 |
| | | | | | | 1AJ | 11859 |
| 3515 | 2000 | 3600 | LDC | RLFA-RLFAL | SET TABLE INDEX | 1AJ | 11860 |
| 3517 | 3401 | | STD | T1 | | 1AJ | 11861 |
| 3520 | 1404 | RLF4 | LDN | RLFAL | ADVANCE TABLE ADDRESS | 1AJ | 11862 |
| 3521 | 3501 | | RAD | T1 | | 1AJ | 11863 |
| 3522 | 4001 | | LDI | T1 | | 1AJ | 11864 |

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|------|-----------|--------|---------|-----------------|---|---------|-------|
| 3523 | 0431 | | ZJN | RLF5.0 | IF END OF TABLE (RETURN FILE) | 274L797 | 10 |
| 3524 | 3340 | | LMD | FN | | 1AJ | 11866 |
| 3525 | 0572 | | NJN | RLF4 | IF NO MATCH | 1AJ | 11867 |
| 3526 | 5001 0001 | | LDM | 1,T1 | | 1AJ | 11868 |
| 3530 | 3341 | | LMD | FN+1 | | 1AJ | 11869 |
| 3531 | 0566 | | NJN | RLF4 | IF NO MATCH | 1AJ | 11870 |
| 3532 | 5001 0002 | | LDM | 2,T1 | | 1AJ | 11871 |
| 3534 | 3342 | | LMD | FN+2 | | 1AJ | 11872 |
| 3535 | 0562 | | NJN | RLF4 | IF NO MATCH | 1AJ | 11873 |
| 3536 | 5001 0003 | | LDM | 3,T1 | | 1AJ | 11874 |
| 3540 | 3343 | | LMD | FN+3 | | 1AJ | 11875 |
| 3541 | 1377 | | SCN | 77 | | 1AJ | 11876 |
| 3542 | 0555 | | NJN | RLF4 | IF NO MATCH | 1AJ | 11877 |
| 3543 | 0340 | RLF4.1 | UJP | RLF2 | SET QUEUED FILE PROCESSED FLAG | 274L797 | 11 |
| | | | | | | 274L797 | 12 |
| 3544 | 0340 | RLF4.2 | UJP | RLF2.1 | PROCESS NEXT FNT ENTRY | 274L797 | 13 |
| | | | | | | 1AJ | 11879 |
| 3545 | 3013 | RLF5 | LDD | CM+3 | | 274L797 | 14 |
| 3546 | 2300 1704 | | LMC | 2ROD | | 274L797 | 15 |
| 3550 | 0504 | | NJN | RLF5.0 | IF NOT OPTICAL DISK FILE | 274L797 | 16 |
| 3551 | 3024 | | LDD | FS+4 | | 274L797 | 17 |
| 3552 | 1014 | | SHN | 21-5 | | 274L797 | 18 |
| 3553 | 0767 | | MJN | RLF4.1 | IF LABELING REQUIRED (DO NOT RETURN) | 274L797 | 19 |
| 3554 | 3025 | RLF5.0 | LDD | CN | SET FNT INDEX | 274L797 | 20 |
| 3555 | 3457 | | STD | FA | | 1AJ | 11881 |
| 3556 | 1402 | | LDN | 2 | SET *DROP ROFT*, *RETURN* FLAGS FOR *ODF* | 1AJ | 11882 |
| 3557 | 5400 4427 | | STM | OVL-1 | | 1AJ | 11883 |
| 3561 | 2000 4430 | | EXECUTE | ODF,OVL | DROP FILE | 1AJ | 11884 |
| 3570 | 0604 | | PJN | RLF5.1 | IF NO INACCESSIBLE DEVICE ERROR | NS2719 | 118 |
| 3571 | 3005 | | LDD | T5 | | 242L642 | 658 |
| 3572 | 5400 3364 | | STM | RLFC | FLAG MASS STORAGE RECOVERABLE ERROR | 242L642 | 659 |
| 3574 | 3074 | RLF5.1 | LDD | CP | CHECK FOR TAPE ACTIVITY | 242L642 | 660 |
| 3575 | 1620 | | ADN | STSW | | 1AJ | 11886 |
| 3576 | 6010 | | CRD | CM | | 1AJ | 11887 |
| 3577 | 3014 | | LDD | CM+4 | | 1AJ | 11888 |
| 3600 | 1070 | | SHN | -7 | | 1AJ | 11889 |
| 3601 | 0442 | | ZJN | RLF4.2 | IF NOT EXCESSIVE ACTIVITY | 274L797 | 21 |
| 3602 | 0100 1571 | | LJM | DPP | DROP PP TO WAIT FOR NO ACTIVITY | 1AJ | 11891 |
| | | | | | | 1AJ | 11894 |
| | | | | | | 1AJ | 11895 |
| 3604 | 1725 | RLFA | VFD | 42/0LOUTPUT,6/0 | | 1AJ | 11896 |
| 3605 | 2420 | | | | | | |
| 3606 | 2524 | | | | | | |
| 3607 | 0000 | | | | | | |
| | | 4 | RLFAL | EQU | *-RLFA | 1AJ | 11897 |
| 3610 | 2025 | | VFD | 42/0LPUNCH,6/0 | | 1AJ | 11898 |
| 3611 | 1603 | | | | | | |
| 3612 | 1000 | | | | | | |
| 3613 | 0000 | | | | | | |
| 3614 | 2025 | | VFD | 42/0LPUNCHB,6/0 | | 1AJ | 11899 |
| 3615 | 1603 | | | | | | |
| 3616 | 1002 | | | | | | |
| 3617 | 0000 | | | | | | |
| 3620 | 2043 | | VFD | 42/0LP8,6/0 | | 1AJ | 11900 |
| 3621 | 0000 | | | | | | |
| 3622 | 0000 | | | | | | |
| 3623 | 0000 | | | | | | |

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|------|------|------|------|------------------|--|---------|-------|
| 3624 | 3232 | | VFD | 42/0LZZZZZ0D,6/0 | OPTICAL DISK CONTROL FILE | 274L797 | 22 |
| 3625 | 3232 | | | | | | |
| 3626 | 3217 | | | | | | |
| 3627 | 0400 | | | | | | |
| 3630 | 0000 | | CON | 0 | END OF TABLE | 1AJ | 11901 |
| | | | ** | | SCM - STORE CONVERSIONS IN MESSAGE. | 1AJ | 11903 |
| | | | * | | | 1AJ | 11904 |
| | | | * | | ENTRY (T4) = MESSAGE COUNT - 1. | 1AJ | 11905 |
| | | | * | | (A) = LOCATION OF MESSAGE. | 1AJ | 11906 |
| | | | * | | | 1AJ | 11907 |
| | | | * | | USES T4. | 1AJ | 11908 |
| | | | | | | 1AJ | 11909 |
| | | | | | | 1AJ | 11910 |
| 3631 | 0100 | 3631 | SCM | SUBR | ENTRY/EXIT | 1AJ | 11911 |
| 3633 | 5400 | 3636 | | STM | SCMA | 1AJ | 11912 |
| 3635 | 5004 | 3635 | SCM1 | LDM | *,T4 | 1AJ | 11913 |
| | | 3636 | SCMA | EQU | *-1 | 1AJ | 11914 |
| 3637 | 1603 | | | ADN | 3 | 1AJ | 11915 |
| 3640 | 5400 | 3645 | | STM | SCMB | 1AJ | 11916 |
| 3642 | 3077 | | | LDD | MA | 1AJ | 11917 |
| 3643 | 3104 | | | ADD | T4 | 1AJ | 11918 |
| 3644 | 6170 | 3644 | | CRM | *,ON | 1AJ | 11919 |
| | | 3645 | SCMB | EQU | *-1 | 1AJ | 11920 |
| 3646 | 3704 | | | SOD | T4 | 1AJ | 11921 |
| 3647 | 0665 | | | PJN | SCM1 | 1AJ | 11922 |
| 3650 | 0360 | | | UJN | SCMX | 1AJ | 11923 |
| | | | ** | | SUV - SET USER VALIDATION LIMITS. | 1AJ | 11925 |
| | | | * | | | 1AJ | 11926 |
| | | | * | | SETS USER VALIDATION LIMITS TO UNLIMITED, EXCEPT | 1AJ | 11927 |
| | | | * | | FOR THE PRINT, PUNCH AND DEFERRED BATCH OUTPUT LIMITS. | 1AJ47 | 1 |
| | | | * | | | 1AJ | 11929 |
| | | | * | | USES CM - CM+4. | 1AJ | 11930 |
| | | | | | | 1AJ | 11931 |
| | | | | | | 1AJ | 11932 |
| 3651 | 0100 | 3651 | SUV | SUBR | ENTRY/EXIT | 1AJ | 11933 |
| 3653 | 3074 | | | LDD | CP | 1AJ | 11934 |
| 3654 | 1676 | | | ADK | ALMW | 1AJ | 11935 |
| 3655 | 6010 | | | CRD | CM | 1AJ | 11936 |
| 3656 | 3011 | | | LDD | CM+1 | 1AJ | 11937 |
| 3657 | 1270 | | | LPN | 70 | 1AJ | 11938 |
| 3660 | 2300 | 7707 | | LMC | 7707 | 1AJ | 11939 |
| 3662 | 3411 | | | STD | CM+1 | 1AJ | 11940 |
| 3663 | 1500 | | | LCN | 0 | 1AJ | 11941 |
| 3664 | 3412 | | | STD | CM+2 | 1AJ | 11942 |
| 3665 | 3413 | | | STD | CM+3 | V23L617 | 874 |
| 3666 | 3074 | | | LDD | CP | 1AJ | 11945 |
| 3667 | 1676 | | | ADK | ALMW | 1AJ | 11946 |
| 3670 | 6210 | | | CWD | CM | 1AJ | 11947 |
| 3671 | 1601 | | | ADK | ACLW-ALMW | 1AJ | 11948 |

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|------|------|------|---------|-----------|---|---------|-------|
| 3672 | 6010 | | CRD | CM | | 1AJ | 11949 |
| 3673 | 1500 | | LCN | 0 | SET DAYFILE MESSAGE LIMIT | 1AJ | 11950 |
| 3674 | 3411 | | STD | CM+1 | | 1AJ | 11951 |
| 3675 | 3412 | | STD | CM+2 | SET COMMAND LIMIT | V23L617 | 875 |
| 3676 | 3414 | | STD | CM+4 | SET MASS STORAGE PRU LIMIT | 1AJ | 11953 |
| 3677 | 3013 | | LDD | CM+3 | | 1AJ | 11954 |
| 3700 | 1377 | | SCN | 77 | | 1AJ | 11955 |
| 3701 | 1177 | | LMN | 77 | | 1AJ | 11956 |
| 3702 | 3413 | | STD | CM+3 | | 1AJ | 11957 |
| 3703 | 3074 | | LDD | CP | REWRITE ACCOUNTING LIMITS WORD | 1AJ | 11958 |
| 3704 | 1677 | | ADK | ACLW | | 1AJ | 11959 |
| 3705 | 6210 | | CWD | CM | | 1AJ | 11960 |
| 3706 | 0342 | | UJP | SUVX | RETURN | 1AJ | 11961 |
| | | | ** | | TLD - TERMINATE *L* DISPLAY. | 1AJ | 11963 |
| | | | * | | | 1AJ | 11964 |
| | | | * | | EXIT *JSN* FIELD OF *L* DISPLAY BUFFER CLEARED IF | 1AJ | 11965 |
| | | | * | | IT MATCHES THAT OF JOB WHICH IS TERMINATING. | 1AJ | 11966 |
| | | | * | | | 1AJ | 11967 |
| | | | * | | USES AB - AB+4, CM - CM+5, CN - CN+4. | 1AJ | 11968 |
| | | | * | | | 1AJ | 11969 |
| | | | * | | MACROS MONITOR, SFA. | 1AJ | 11970 |
| | | | | | | 1AJ | 11971 |
| | | | | | | 1AJ | 11972 |
| 3707 | 0100 | 3707 | TLD | SUBR | ENTRY/EXIT | 1AJ | 11973 |
| 3711 | 3045 | | SFA | EJT,JO | SET EJT ADDRESS | 1AJ | 11974 |
| | | | ADK | JSNE | READ JSN | 1AJ | 11975 |
| 3714 | 6025 | | CRD | CN | | 1AJ | 11976 |
| 3715 | 2000 | 0142 | LDK | LDSP | READ *L* DISPLAY POINTER | 1AJ | 11977 |
| 3717 | 6032 | | CRD | AB | | 1AJ | 11978 |
| 3720 | 3034 | | LDD | AB+2 | SET *L* DISPLAY BUFFER ADDRESS | 1AJ | 11979 |
| 3721 | 3413 | | STD | CM+3 | | 1AJ | 11980 |
| 3722 | 1014 | | SHN | 14 | | 1AJ | 11981 |
| 3723 | 3335 | | LMD | AB+3 | | 1AJ | 11982 |
| 3724 | 3414 | | STD | CM+4 | | 1AJ | 11983 |
| 3725 | 6032 | | CRD | AB | READ *L* DISPLAY BUFFER | 1AJ | 11984 |
| 3726 | 3025 | | LDD | CN | SET JSN IN *UTEM* PARAMETERS | 1AJ | 11985 |
| 3727 | 5400 | 3760 | STM | TLDA+3 | | 1AJ | 11986 |
| 3731 | 3332 | | LMD | AB | COMPARE TO *L* DISPLAY JSN | 1AJ | 11987 |
| 3732 | 0554 | | NJN | TLDX | IF NO MATCH | 1AJ | 11988 |
| 3733 | 3026 | | LDD | CN+1 | | 1AJ | 11989 |
| 3734 | 5400 | 3761 | STM | TLDA+4 | | 1AJ | 11990 |
| 3736 | 3333 | | LMD | AB+1 | | 1AJ | 11991 |
| 3737 | 0547 | | NJN | TLDX | IF NO MATCH | 1AJ | 11992 |
| 3740 | 1402 | | LDN | 2 | SET REQUEST LENGTH | 1AJ | 11993 |
| 3741 | 3411 | | STD | CM+1 | | 1AJ | 11994 |
| 3742 | 1400 | | LDN | 0 | | 1AJ | 11995 |
| 3743 | 3412 | | STD | CM+2 | | 1AJ | 11996 |
| 3744 | 3077 | | LDD | MA | STORE REQUEST PARAMETERS | 1AJ | 11997 |
| 3745 | 6311 | 3755 | CWM | TLDA,CM+1 | | 1AJ | 11998 |
| 3747 | 2000 | 0115 | MONITOR | UTEM | CLEAR *JSN* FIELD | 1AJ | 11999 |
| 3753 | 0100 | 3707 | UJP | TLDX | RETURN | 1AJ | 12000 |
| | | | | | | 1AJ | 12001 |
| | | | | | | 1AJ | 12002 |

| Line | Address | Code | Label | Operation | Comments | Page | Address |
|------|---------|-----------|--------|--------------------------|---------------------------------------|---------|---------|
| | | * | *UTEM* | MONITOR FUNCTION BUFFER. | | 1AJ | 12003 |
| | | | | | | 1AJ | 12004 |
| | 3755 | 4030 | TLDA | VFD | 1/1,5/0,6/24D,6/36D,6/0 VERIFY *JSN* | 1AJ | 12005 |
| 1 | 3756 | 4400 | | | | | |
| 2 | 3757 | 0000 0000 | | CON | 0,0,0 | 1AJ | 12006 |
| 3 | 3761 | 0000 | | | | | |
| 4 | 3762 | 0030 | | VFD | 1/0,5/0,6/24D,6/36D,6/0 CLEAR *JSN* | 1AJ | 12007 |
| 5 | 3763 | 4400 | | | | | |
| 6 | 3764 | 0000 0000 | | CON | 0,0,0 | 1AJ | 12008 |
| 7 | 3766 | 0000 | | | | | |
| 12 | | ** | UPF | - | UPDATE PROJECT PROFILE FILE. | 1AJ | 12010 |
| 13 | | * | | | | 1AJ | 12011 |
| 14 | | * | EXIT | (PFUF) | = SET IF PROJECT FILE UPDATE FAILURE | 1AJ | 12012 |
| 15 | | * | | | AND MAXIMUM RETRY REACHED. | 1AJ | 12013 |
| 16 | | * | | | | 1AJ | 12014 |
| 17 | | * | CALLS | DFM, MSR, | *0AU*. | 242L642 | 661 |
| 18 | | * | | | | 1AJ | 12016 |
| 19 | | * | USES | RC. | | 1AJ | 12017 |
| 20 | | * | | | | 1AJ | 12018 |
| 21 | | * | MACROS | DELAY, | EXECUTE, PAUSE, SFA. | 1AJ | 12019 |
| 22 | | | | | | 1AJ | 12020 |
| 23 | | | | | | 1AJ | 12021 |
| 24 | 3767 | 0100 3767 | UPF | SUBR | ENTRY/EXIT | 1AJ | 12022 |
| 25 | 3771 | 1400 | | LDN | 0 INITIALIZE RE-TRY COUNT | 1AJ | 12023 |
| 26 | 3772 | 3466 | | STD | RC | 1AJ | 12024 |
| 27 | 3773 | 3045 | UPF1 | SFA | EJT,JO SET EJT ADDRESS | 1AJ | 12025 |
| 28 | | | | ADK | JSNE READ JSN | 1AJ | 12026 |
| 29 | 3776 | 6170 4413 | | CRM | AUPB,ON | 1AJ | 12027 |
| 30 | 4000 | 5000 1105 | | LDM | JBSC SET JOB SERVICE CLASS | 1AJ | 12028 |
| 31 | 4002 | 1006 | | SHN | 6 | 1AJ | 12029 |
| 32 | 4003 | 5400 4417 | | STM | AUPB+4 | 1AJ | 12030 |
| 33 | 4005 | 3074 | | LDD | CP READ SRU ACCUMULATOR | 1AJ | 12031 |
| 34 | 4006 | 1651 | | ADK | SRUW | 1AJ | 12032 |
| 35 | 4007 | 6170 4420 | | CRM | AUPB+5,ON | 1AJ | 12033 |
| 36 | 4011 | 1610 | | ADN | FPFW-SRUW-1 | 1AJ | 12034 |
| 37 | 4012 | 6170 4430 | | CRM | OVL,ON | 1AJ | 12035 |
| 38 | 4014 | 2000 4413 | | LDC | AUPB | 1AJ | 12036 |
| 39 | 4016 | 5400 4431 | | STM | OVL+1 | 1AJ | 12037 |
| 40 | 4020 | 5000 4430 | | LDM | OVL SET END OF ACCOUNT BLOCK CALL | 1AJ | 12038 |
| 41 | 4022 | 1377 | | SCN | 77 | 1AJ | 12039 |
| 42 | 4023 | 5400 4430 | | STM | OVL | 1AJ | 12040 |
| 43 | 4025 | 2000 4435 | | EXECUTE | 0AU,OVL+5 | 1AJ | 12041 |
| 44 | 4034 | 0603 | | MJP | UPF5 IF MASS STORAGE ERROR | 242L642 | 662 |
| 45 | 4037 | 1702 | | SBN | 2 | 1AJ | 12042 |
| 46 | 4040 | 0403 | | NJP | UPFX IF PROFILE FILE NOT BUSY | 1AJ | 12043 |
| 47 | 4043 | 3666 | | AOD | RC INCREMENT AND CHECK RE-TRY COUNT | 1AJ | 12044 |
| 48 | 4044 | 1163 | | LMN | MTRY+1 | 1AJ | 12045 |
| 49 | 4045 | 0426 | | ZJN | UPF3 IF MAXIMUM RE-TRY COUNT REACHED | 1AJ | 12046 |
| 50 | 4046 | 1167 | | LMN | MTRY+1&IMES | 1AJ | 12047 |
| 51 | 4047 | 0505 | | NJN | UPF2 IF NOT CONSOLE MESSAGE THRESHOLD | 1AJ | 12048 |
| 52 | 4050 | 3074 | | LDD | CP CONSOLE MESSAGE | 1AJ | 12049 |
| 53 | 4051 | 1631 | | ADN | MS1W | 1AJ | 12050 |
| 54 | 4052 | 6373 4126 | | CWM | UPFA,TR | 1AJ | 12051 |

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| | | | | | | | |
|------|----|------|------|--|--|---------|-------|
| | ** | | | PTR - PRESET JOB TERMINATION. | | NS22000 | 449 |
| | * | | | | | 1AJ | 12083 |
| | * | | | EXIT (NL) = NEGATIVE FL. | | 1AJ | 12084 |
| | * | | | | | 1AJ | 12085 |
| | * | | | USES CM - CM+4, CN - CN+4, NL. | | NS22000 | 450 |
| | * | | | | | 1AJ | 12087 |
| | * | | | CALLS FLF, TLD. | | 241L630 | 317 |
| | * | | | | | 1AJ | 12089 |
| | * | | | MACROS MONITOR. | | 1AJ | 12090 |
| | | | | | | 1AJ | 12091 |
| | | | | | | 1AJ | 12092 |
| 4413 | | 0100 | 4413 | PTR SUBR ENTRY/EXIT | | NS22000 | 451 |
| | | | | | | 1AJ | 12094 |
| | * | | | SET NO-EXIT FLAG IN CONTROL POINT AREA. | | 1AJ | 12095 |
| | | | | | | 1AJ | 12096 |
| 4415 | | 0200 | 3710 | RJM TLD TERMINATE *L* DISPLAY | | 242L642 | 678 |
| 4417 | | 3074 | | LDD CP READ ENTRY/EXIT CONTROL WORD | | 1AJ | 12097 |
| 4420 | | 1671 | | ADK EECW | | 1AJ | 12098 |
| 4421 | | 6010 | | CRD CM | | 1AJ | 12099 |
| 4422 | | 3010 | | LDD CM SET NO-EXIT FLAG | | 1AJ | 12100 |
| 4423 | | 2200 | 3777 | LPC 3777 | | 1AJ | 12101 |
| 4425 | | 2100 | 4000 | ADC 4000 | | 1AJ | 12102 |
| 4427 | | 3410 | | STD CM | | 1AJ | 12103 |
| 4430 | | 3074 | | LDD CP REWRITE ENTRY/EXIT CONTROL WORD | | 1AJ | 12104 |
| 4431 | | 1671 | | ADK EECW | | 1AJ | 12105 |
| 4432 | | 6210 | | CWD CM | | 1AJ | 12106 |
| | | | | | | 1AJ | 12107 |
| | * | | | CLEAR CCL NESTING IN CONTROL POINT AREA. | | 1AJ | 12108 |
| | | | | | | 1AJ | 12109 |
| 4433 | | 1616 | | ADK JCDW-EECW READ JOB CONTROL DATA | | 1AJ | 12110 |
| 4434 | | 6010 | | CRD CM | | 1AJ | 12111 |
| 4435 | | 1400 | | LDN 0 CLEAR CCL DATA | | 1AJ | 12112 |
| 4436 | | 3412 | | STD CM+2 | | 1AJ | 12113 |
| 4437 | | 3074 | | LDD CP REWRITE JOB CONTROL DATA | | 1AJ | 12114 |
| 4440 | | 2100 | 0107 | ADK JCDW | | 1AJ | 12115 |
| 4442 | | 6210 | | CWD CM | | 1AJ | 12116 |
| | | | | | | 1AJ | 12117 |
| | * | | | PRESET MISCELLANEOUS DATA. | | 1AJ | 12118 |
| | | | | | | 1AJ | 12119 |
| 4443 | | 1764 | | ADK FLSW-JCDW READ NFL CONTROL WORD | | 1AJ | 12120 |
| 4444 | | 6025 | | CRD CN | | 1AJ | 12121 |
| 4445 | | 1640 | | ADK FLCW-FLSW READ FL CONTROL WORD | | 1AJ | 12122 |
| 4446 | | 6010 | | CRD CM | | 1AJ | 12123 |
| 4447 | | 1601 | | ADK ELCW-FLCW | | NS2143 | 1 |
| 4450 | | 6032 | | CRD AB | | NS2143 | 2 |
| 4451 | | 1606 | | ADK TFSW-ELCW | | NS2143 | 3 |
| 4452 | | 6020 | | CRD FS | | NS22000 | 453 |
| 4453 | | 3020 | | LDD FS SET EJT ORDINAL | | NS22000 | 454 |
| 4454 | | 5400 | 3373 | STM RLFB | | NS22000 | 455 |
| 4456 | | 3012 | | LDD CM+2 SET MFL = MAXFL | | 1AJ | 12124 |
| 4457 | | 3410 | | STD CM | | 1AJ | 12125 |
| 4460 | | 1400 | | LDN 0 CLEAR EM JOB STEP FL | | NS2143 | 4 |
| 4461 | | 3433 | | STD AB+1 | | NS2143 | 5 |
| 4462 | | 3074 | | LDD CP REWRITE FL CONTROL WORD | | 1AJ | 12126 |
| 4463 | | 1663 | | ADK FLCW | | 1AJ | 12127 |
| 4464 | | 6210 | | CWD CM | | 1AJ | 12128 |
| 4465 | | 1601 | | ADK ELCW-FLCW | | NS2143 | 6 |

| | | | | | | | | |
|------|-----------|------|-------|----------------------|-------------------------------|--|------------|-------|
| 4466 | 6232 | | CWD | AB | | | NS2143 | 7 |
| 4467 | 3025 | | LDD | CN | SET NFL | | 1AJ | 12129 |
| 4470 | 1006 | | SHN | 6 | | | 1AJ | 12130 |
| 4471 | 3437 | | STD | NL | | | 1AJ | 12131 |
| 4472 | 0403 | | ZJN | PTR1 | IF NFL NOT ASSIGNED | | 242L642 | 679 |
| | | | | | | | 1AJ | 12135 |
| | | * | | | FLUSH 819 BUFFERS. | | 1AJ | 12136 |
| | | | | | | | 1AJ | 12137 |
| 4473 | 0200 4500 | | RJM | FLF | FLUSH BUFFERS | | 242L642 | 680 |
| 4475 | 0100 4413 | PTR1 | LJM | PTRX | EXIT | | 242L642 | 681 |
| | | | | | | | | |
| | | ** | | | EXECUTABLE COMMON DECKS. | | 1AJ | 12141 |
| | | | | | | | 1AJ | 12142 |
| | | | | | | | 1AJ | 12143 |
| 4477 | | | CTEXT | COMPFLF | FLUSH LOCAL FILES. | | COMPFLF | 1 |
| | | | | | OVERFLOW | | 241L630 | 326 |
| | | | | | | | OVERFLOW.1 | |
| | 3105 | | ERRNG | .2-.1+5-.3/500B*500B | BYTES LEFT AFTER LAST SECTOR | | OVERFLOW.1 | |
| | 26 | | ERRNG | .3/500B*500B-*.1-5 | BYTES LEFT IN LAST SECTOR | | OVERFLOW.1 | |
| | 3126 | | ERRNG | .4/500B*500B-*.1-5 | BYTES CAN BE ADDED TO OVERLAY | | OVERFLOW.1 | |
| | 6 | | ERRNG | .3/500B | SECTORS NEEDED FOR OVERLAY | | OVERFLOW.1 | |
| | | | | | | | OVERFLOW.1 | |
| | | | LIST | * | | | OVERFLOW.1 | |

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QUAL 3AK
 IDENT 3AK,CJTX COMPLETE JOB TERMINATION.
 COMMENT 82/02/26. 95/06/23. 1AJ - COMPLETE JOB TERMINATION.
 COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.

1AJ 12147
 NS22000 459
 1AJ 12149
 281L803 16

*** 3AK - COMPLETE JOB TERMINATION.

NS22000 460

*
* 3AK PERFORMS JOB TERMINATION PROCEDURES.
* THESE INCLUDE -

1AJ 12153
NS22000 461
1AJ 12157

- * (1) RELEASE STORAGE.
- * (2) RELEASE ASSIGNED EQUIPMENT.
- * (3) RELEASE ANY COMMON FILES USED BY JOB.
- * (4) DROP ANY SCRATCH FILES USED BY JOB.
- * (5) UPDATE THE RESOURCE DEMAND FILE.
- * (6) REQUEUE THE JOB FOR RERUN IF REQUIRED.

1AJ 12158
1AJ 12159
1AJ 12160
1AJ 12161
1AJ 12162
1AJ 12163
1AJ 12164

*** DAYFILE MESSAGES.

1AJ 12166

*
* SYSTEM AND JOB DAYFILES.
*
* * JOB RERUN.* = JOB TERMINATED AND INPUT FILE REQUEUED.

1AJ 12167
1AJ 12168
1AJ 12169
1AJ 12170

*** ACCOUNT DAYFILE MESSAGES.

NS2236 17

*
*
* *AERR, HW.* = JOB WAS RERUN DUE TO A HARDWARE ERROR.

NS2236 18
NS2236 19
NS2236 20

*** OPERATOR MESSAGES.

1AJ 12172

*
* * JOB RERUN.* = JOB TERMINATED AND INPUT FILE REQUEUED.

1AJ 12173
1AJ 12174

** ROUTINES USED.

1AJ 12176

*
* *0DF* - DROP FILE.
* *0BQ* - BEGIN QUEUED FILE.
* *0RF* - UPDATE RESOURCE FILES.

1AJ 12177
1AJ 12178
1AJ 12179
1AJ 12180

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**** DIRECT LOCATION ASSIGNMENTS.

| | |
|-----|-------|
| 1AJ | 12182 |
| 1AJ | 12183 |
| 1AJ | 12184 |
| 1AJ | 12185 |
| 1AJ | 12186 |
| 1AJ | 12187 |

| | | | | | | | |
|---|----|----|-----|---------|-------------------------|--|--|
| 1 | 37 | NL | EQU | 37 | NEGATIVE FL ASSIGNED | | |
| 2 | 40 | FN | EQU | 40 - 44 | FILE NAME (5 LOCATIONS) | | |
| 3 | 66 | RC | EQU | 66 | *0AU* RE-TRY COUNT | | |

** ASSEMBLY CONSTANTS.

| | |
|-----|-------|
| 1AJ | 12189 |
| 1AJ | 12190 |
| 1AJ | 12191 |
| 1AJ | 12192 |
| 1AJ | 12193 |

| | | | | | | |
|----|------|-----|------|-----------------------------|--|--|
| 10 | IORC | EQU | 9D-1 | QFT RESERVATION RETRY COUNT | | |
| | **** | | | | | |

1412THE

| Line | Job ID | Job ID | Job ID | Job ID | Description | Resource | Count |
|------|--------|--------|--------|--------|---|---|------------|
| | | | | | ** CJT - MAIN PROGRAM. | 1AJ | 12196 |
| | | | | | * ENTRY (EF) = ERROR FLAG. | 1AJ | 12197 |
| | | | | | * (JO) = EJT ORDINAL. | 1AJ | 12198 |
| | | | | | * (JTOP) = JOB TERMINATION OPTION. | 1AJ | 12199 |
| | | | | | * USES CM+1, CM+2. | 1AJ | 12200 |
| | | | | | * CALLS DAC, ISE, PRS, RCS, RDF, REQ, RIF, RLF, RLN, RQF, RRJ, URF. | 1AJ | 12201 |
| | | | | | * MACROS MONITOR. | 253L688 | 57 |
| | | | | | | 253L688 | 58 |
| | | | | | | NS2707 | 1 |
| | | | | | | NS2707 | 2 |
| | | | | | | 253L688 | 60 |
| | | | | | | 253L688 | 61 |
| | | | | | | 1AJ | 12203 |
| | | | | | | 1AJ | 12204 |
| | | | | | | 1AJ | 12205 |
| 12 | 2300 | | | ORG | E1AJ | | |
| 13 | 2300 | 0100 | 2300 | CJT | SUBR | ENTRY/EXIT | 1AJ 12206 |
| 14 | 2302 | 0200 | 4154 | | RJM | PRS PRESET PROGRAM | 1AJ 12207 |
| 15 | 2304 | 0200 | 3012 | | RJM | RLF RELEASE LOCAL FILES | 1AJ 12210 |
| 16 | 2306 | 0200 | 2721 | | RJM | RIF RELEASE INPUT FILE | 1AJ 12211 |
| 17 | 2310 | 0200 | 2557 | | RJM | RDF RELEASE DAYFILE TRACKS | 1AJ 12212 |
| 18 | 2312 | 0200 | 2606 | | RJM | REQ RELEASE EQUIPMENT | 1AJ 12213 |
| 19 | 2314 | 0200 | 3435 | | RJM | URF UPDATE RESOURCE DEMAND FILE | 1AJ 12214 |
| 20 | 2316 | 0200 | 3230 | | RJM | RRJ RERUN JOB | 1AJ 12215 |
| 21 | 2320 | 0200 | 2511 | | RJM | RCS RELEASE COMMAND FILE | 1AJ114 1 |
| 22 | 2322 | 0200 | 2361 | | RJM | DAC DECREMENT ACTIVITY COUNTS | 1AJ 12217 |
| 23 | 2324 | 0200 | 3167 | | RJM | RQF RETRY QUEUED FUNCTIONS | 253L688 62 |
| 24 | 2326 | 0200 | 3061 | | RJM | RLN RELEASE NEGATIVE FL | 1AJ 12218 |
| 25 | 2330 | 0200 | 2456 | | RJM | ISE ISSUE SUBSYSTEM TERMINATION EVENT | NS2707 3 |
| 26 | 2332 | 5000 | 2353 | | LDM | CJTA CHECK FOR DEADSTART SEQUENCING JOB | NS2181 1 |
| 27 | 2334 | 2300 | 7777 | | LMC | DSSI | NS2181B 8 |
| 28 | 2336 | 0541 | | | NJN | CJTX IF NOT DEADSTART SEQUENCING JOB | NS2181 3 |
| 29 | 2337 | 1401 | | | LDN | 1 CLEAR DEADSTART SEQUENCING FLAG | NS2181 4 |
| 30 | 2340 | 3411 | | | STD | CM+1 | NS2181 5 |
| 31 | 2341 | 3412 | | | STD | CM+2 | NS2181 6 |
| 32 | 2342 | 3077 | | | LDD | MA | NS2181 7 |
| 33 | 2343 | 6370 | 2354 | | CWM | CJT,ON | NS2181 8 |
| 34 | 2345 | 2000 | 0114 | | MONITOR | UADM | NS2181 9 |
| 35 | 2351 | 0100 | 2300 | | UJP | CJTX RETURN | 1AJ 12219 |
| 36 | | | | | | | NS2181 10 |
| 37 | | | | | | | NS2181 11 |
| 38 | 2353 | 0000 | | CJTA | CON 0 | SUBSYSTEM ID OF JOB | NS2181B 9 |
| 39 | | | | | | | NS2181 13 |
| 40 | | | | | * | PARAMETERS FOR *UADM* FUNCTION. | NS2181 14 |
| 41 | | | | | | | NS2181 15 |
| 42 | 2354 | 0004 | | CJT,ON | CON LDOS | DECREMENT LOW CORE FIELD | NS2181 16 |
| 43 | 2355 | 0124 | | | CON | INWL WORD ADDRESS | NS2181 17 |
| 44 | 2356 | 1701 | | | CON | 15D*100+1 POSITION AND FIELD SIZE | NS2181 18 |

** GLOBAL DATA STORAGE.

1AJ 12221
1AJ 12222
1AJ 12223
1AJ 12224

1 2357 0000 IFFN CON 0 INPUT FILE FNT INDEX 1

2 2 2

3 3 3

4 4 4

5 5 5

6 6 6

7 7 7

8 8 8

9 9 9

10 10 10

11 11 11

12 12 12

13 13 13

14 14 14

15 15 15

16 16 16

17 17 17

18 18 18

19 19 19

20 20 20

21 21 21

22 22 22

23 23 23

24 24 24

25 25 25

26 26 26

27 27 27

28 28 28

29 29 29

30 30 30

31 31 31

32 32 32

33 33 33

34 34 34

35 35 35

36 36 36

37 37 37

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| Line | Code | Address | Label | Description | Address | Code |
|------|------|-----------|---------|---|---------|-------|
| | ** | | DAC | DECREMENT ACTIVITY COUNTS. | 1AJ | 12227 |
| | * | | | | 1AJ | 12228 |
| | * | | | DECREMENTS THE FAMILY AND PROFILE FILE ACTIVITY | 1AJ | 12229 |
| | * | | | COUNTS. | 1AJ | 12230 |
| | * | | | | 1AJ | 12231 |
| | * | | | USES CM - CM+4, CN - CN+4. | 1AJ | 12232 |
| | * | | | | 1AJ | 12233 |
| | * | | | MACROS MONITOR, SFA. | 1AJ | 12234 |
| | | | | | 1AJ | 12235 |
| 2360 | | 0100 2360 | DAC | SUBR ENTRY/EXIT | 1AJ | 12236 |
| | | | | | 1AJ | 12237 |
| | | | | | 1AJ | 12238 |
| | * | | | DECREMENT FAMILY COUNT. | 1AJ | 12239 |
| | | | | | 1AJ | 12240 |
| 2362 | | 3074 | LDD | CP READ FAMILY PROFILE FILE DATA | 1AJ | 12241 |
| 2363 | | 1662 | ADK | FPPW | 1AJ | 12242 |
| 2364 | | 6025 | CRD | CN | 1AJ | 12243 |
| 2365 | | 1605 | ADK | PFCW-FPPW READ PERMANENT FILE CONTROL | 1AJ | 12244 |
| 2366 | | 6040 | CRD | FN | 253L688 | 63 |
| 2367 | | 3043 | LDD | FN+3 GET FAMILY DEVICE ORDINAL | 253L688 | 64 |
| 2370 | | 0420 | ZJN | DAC1 IF NULL FAMILY | 1AJ | 12247 |
| 2371 | | 3411 | STD | CM+1 | 1AJ | 12248 |
| 2372 | | 1102 | LMK | NEEQ | 1AJ | 12249 |
| 2373 | | 0415 | ZJN | DAC1 IF NULL EQUIPMENT | 1AJ | 12250 |
| 2374 | | 2300 7775 | LMK | 7777&NEEQ | NS2355 | 4 |
| 2376 | | 0412 | ZJN | DAC1 IF NULL FAMILY | NS2355 | 5 |
| 2377 | | 1407 | LDK | DFCS SET *DECREMENT FAMILY COUNT* FUNCTION | 1AJ | 12251 |
| 2400 | | 3413 | STD | CM+3 | 1AJ | 12252 |
| 2401 | | 1442 | MONITOR | SMDM ISSUE MONITOR REQUEST | 253L688 | 65 |
| | * | | LDN | 0 | 253L688 | 66 |
| 2404 | | 3443 | STD | FN+3 CLEAR FAMILY DEVICE ORDINAL | 253L688 | 67 |
| 2405 | | 3074 | LDD | CP | 253L688 | 68 |
| 2406 | | 1667 | ADK | PFCW | 253L688 | 69 |
| 2407 | | 6240 | CWD | FN | 253L688 | 70 |
| | | | | | 1AJ | 12254 |
| | * | | | DECREMENT DAF USER COUNT. | 1AJ | 12255 |
| | | | | | 1AJ | 12256 |
| 2410 | | 3027 | DAC1 | LDD CN+2 CHECK PROFILE FILE FNT ORDINAL | 1AJ | 12257 |
| 2411 | | 0446 | ZJP | DACX IF PROFILE FILE NOT ATTACHED | 253L688 | 71 |
| 2412 | | 3027 | SFA | FNT,CN+2 SET FNT ADDRESS | 1AJ | 12259 |
| 2415 | | 1601 | ADN | FSTG READ FST ENTRY | 1AJ | 12260 |
| 2416 | | 6025 | CRD | CN | 1AJ | 12261 |
| 2417 | | 1466 | LDN | ZERL | 1AJ | 12262 |
| 2420 | | 6010 | CRD | CM | 1AJ | 12263 |
| 2421 | | 3025 | LDD | CN SET EST ORDINAL | NS22000 | 462 |
| 2422 | | 3411 | STD | CM+1 | 1AJ | 12265 |
| 2423 | | 1403 | LDK | DUCS SET DECREMENT DAF USER COUNT FUNCTION | 1AJ | 12266 |
| 2424 | | 3413 | STD | CM+3 | 1AJ | 12267 |
| 2425 | | 1442 | MONITOR | SMDM ISSUE MONITOR REQUEST | 253L688 | 72 |
| | * | | LDN | 0 | 253L688 | 73 |
| 2430 | | 3427 | STD | CN+2 CLEAR PROFILE FILE FNT ORDINAL | 253L688 | 74 |
| 2431 | | 3074 | LDD | CP | 253L688 | 75 |
| 2432 | | 1662 | ADK | FPPW | 253L688 | 76 |
| 2433 | | 6225 | CWD | CN | 253L688 | 77 |
| 2434 | | 0100 2360 | UJP | DACX RETURN | 1AJ | 12269 |

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| | | | | | | | | |
|----|------|-----------|----|--|-----------------|---|---------|-------|
| | | | ** | DRF - DROP FILE. | | | 1AJ | 12271 |
| | | | * | | | | 1AJ | 12272 |
| | | | * | ENTRY (CN) = INDEX OF FNT ENTRY. | | | 1AJ | 12273 |
| 1 | | | * | | | | 242L642 | 682 |
| 2 | | | * | EXIT (A) .LT. 0 IF MASS STORAGE ERROR OR INACCESSIBLE | | | 242L642 | 683 |
| 3 | | | * | DEVICE PREVENT FILE FROM BEING DROPPED. | | | 242L642 | 684 |
| 4 | | | * | | | | 1AJ | 12274 |
| 5 | | | * | USES FA. | | | 1AJ | 12275 |
| 6 | | | * | | | | 1AJ | 12276 |
| 7 | | | * | CALLS *0DF*. | | | 1AJ | 12277 |
| 8 | | | * | | | | 1AJ | 12278 |
| 9 | | | * | MACROS EXECUTE. | | | 1AJ | 12279 |
| 10 | | | | | | | 1AJ | 12280 |
| 11 | | | | | | | 1AJ | 12281 |
| 12 | 2436 | 0100 2436 | | DRF | SUBR | ENTRY/EXIT | 1AJ | 12282 |
| 13 | 2440 | 3025 | | | LDD CN | SET FNT INDEX | 1AJ | 12283 |
| 14 | 2441 | 3457 | | | STD FA | | 1AJ | 12284 |
| 15 | 2442 | 1402 | | | LDN 2 | SET *DROP ROFT*, *RETURN* FLAGS FOR *0DF* | 1AJ | 12285 |
| 16 | 2443 | 5400 4100 | | | STM OVL-1 | | 1AJ | 12286 |
| 17 | 2445 | 2000 4101 | | | EXECUTE 0DF,OVL | | 1AJ | 12287 |
| 18 | 2454 | 0361 | | | UJN DRFX | RETURN | 1AJ | 12288 |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | ** | ISE - ISSUE SUBSYSTEM TERMINATION EVENT. | | | NS2707 | 5 |
| 24 | | | * | | | | NS2707 | 6 |
| 25 | | | * | WAKE UP SUBSYSTEM POSSIBLY WAITING FOR THIS CONTROL POINT. | | | NS2707 | 7 |
| 26 | | | * | | | | NS2707 | 8 |
| 27 | | | * | USES CM - CM+4. | | | NS2707 | 9 |
| 28 | | | * | | | | NS2707 | 10 |
| 29 | | | * | MACROS MONITOR. | | | NS2707 | 11 |
| 30 | | | | | | | NS2707 | 12 |
| 31 | | | | | | | NS2707 | 13 |
| 32 | 2455 | 0100 2455 | | ISE | SUBR | ENTRY/EXIT | NS2707 | 14 |
| 33 | 2457 | 1400 | | ISEA | LDN 0 | | NS2707 | 15 |
| 34 | | | * | | LDN 1 | (SUBSYSTEM TERMINATION) | NS2707 | 16 |
| 35 | 2460 | 0474 | | | ZJN ISEX | IF NOT SUBSYSTEM | NS2707 | 17 |
| 36 | 2461 | 1466 | | | LDK ZERL | WAKE UP ANY SUBSYSTEM WAITING FOR THIS CP | NS2707 | 18 |
| 37 | 2462 | 6010 | | | CRD CM | | NS2707 | 19 |
| 38 | 2463 | 1435 | | | LDK SSWE | | NS2707 | 20 |
| 39 | 2464 | 3414 | | | STD CM+4 | | NS2707 | 21 |
| 40 | 2465 | 1462 | | | MONITOR EATM | | NS2707 | 22 |
| 41 | 2470 | 0364 | | | UJN ISEX | RETURN | NS2707 | 23 |
| 42 | | | | | | | | |
| 43 | | | | | | | | |
| 44 | | | | | | | | |
| 45 | | | | | | | | |
| 46 | | | | | | | | |
| 47 | | | | | | | | |
| 48 | | | | | | | | |
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| | ** | | | MSR - MASS STORAGE ERROR PROCESSING. | | | 242L642 | 686 |
| | * | | | | | | 242L642 | 687 |
| | * | | | ENTRY (A) = MASS STORAGE DRIVER RETURN IF .LT. 0. | | | NS2719 | 122 |
| 1 | * | | | (A) = 0 TO FORCE *1RJ* CALL. | | | NS2719 | 123 |
| 2 | * | | | (T5) = EST ORDINAL OF INACCESSIBLE DEVICE. | | | NS2719 | 124 |
| 3 | * | | | | | | NS2719 | 125 |
| 4 | * | | | EXIT TO *1RJ* IF NOT NON-RECOVERABLE ERROR. | | | NS2719 | 126 |
| 5 | * | | | TO CALLER IF NON-RECOVERABLE ERROR. | | | NS2719 | 127 |
| 6 | * | | | | | | 242L642 | 691 |
| 7 | * | | | USES CM+1, IR+4. | | | 242L642 | 692 |
| 8 | * | | | | | | 242L642 | 693 |
| 9 | * | | | CALLS *1RJ*. | | | 242L642 | 694 |
| 10 | * | | | | | | 242L642 | 695 |
| 11 | * | | | MACROS EXECUTE, MONITOR. | | | 242L642 | 696 |
| 12 | | | | | | | 242L642 | 697 |
| 13 | | | | | | | 242L642 | 698 |
| 14 | | 2471 | 0100 2471 | MSR | SUBR | ENTRY/EXIT | 242L642 | 699 |
| 15 | | 2473 | 1007 | | SHN 21-12 | | 242L642 | 701 |
| 16 | | 2474 | 0774 | | MJN MSRX | IF NON-RECOVERABLE ERROR | NS2719 | 128 |
| 17 | | 2475 | 3005 | | LDD T5 | SET EQUIPMENT TO WAIT FOR | 242L642 | 706 |
| 18 | | 2476 | 3454 | | STD IR+4 | | 242L642 | 707 |
| 19 | | 2477 | 1400 | | LDN 0 | CLEAR JOB ADVANCE | 242L642 | 708 |
| 20 | | 2500 | 3411 | | STD CM+1 | | 242L642 | 709 |
| 21 | | 2501 | 1463 | | MONITOR JACM | | 242L642 | 710 |
| 22 | | 2504 | 2034 2212 | | EXECUTE 1RJ | RECALL *1AJ* AND ROLL OUT JOB IF POSSIBLE | NS2719 | 129 |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | ** | | | RCS - RELEASE COMMAND TRACKS. | | | V23L617 | 877 |
| 28 | * | | | | | | 1AJ | 12291 |
| 29 | * | | | USES CM - CM+4, CN - CN+4. | | | 1AJ | 12292 |
| 30 | * | | | | | | 1AJ | 12293 |
| 31 | * | | | MACROS MONITOR. | | | 1AJ | 12294 |
| 32 | | | | | | | 1AJ | 12295 |
| 33 | | | | | | | 1AJ | 12296 |
| 34 | | 2510 | 0100 2510 | RCS | SUBR | ENTRY/EXIT | 1AJ | 12297 |
| 35 | | 2512 | 1466 | | LDN ZERL | CLEAR ZERO WORD | 1AJ | 12298 |
| 36 | | 2513 | 6025 | | CRD CN | | 1AJ | 12299 |
| 37 | | 2514 | 3074 | | LDD CP | READ COMMAND POINTER | V23L617 | 878 |
| 38 | | 2515 | 1673 | | ADK CSPW | | 1AJ | 12301 |
| 39 | | 2516 | 6010 | | CRD CM | | 1AJ | 12302 |
| 40 | | 2517 | 3011 | | LDD CM+1 | SET EOR ON COMMAND FILE | V23L617 | 879 |
| 41 | | 2520 | 2200 3777 | | LPC 3777 | | 1AJ | 12304 |
| 42 | | 2522 | 2300 4000 | | LMC 4000 | | 1AJ | 12305 |
| 43 | | 2524 | 3411 | | STD CM+1 | | 1AJ | 12306 |
| 44 | | 2525 | 2000 0205 | | LDK CSBN | SET BUFFER EMPTY | 1AJ | 12307 |
| 45 | | 2527 | 3413 | | STD CM+3 | | 1AJ | 12308 |
| 46 | | 2530 | 3414 | | STD CM+4 | | 1AJ | 12309 |
| 47 | | 2531 | 3074 | | LDD CP | REWRITE COMMAND POINTER WORD | V23L617 | 880 |
| 48 | | 2532 | 1673 | | ADK CSPW | | 1AJ | 12311 |
| 49 | | 2533 | 6210 | | CWD CM | | 1AJ | 12312 |
| 50 | | 2534 | 1601 | | ADK CSSW-CSPW | READ COMMAND FILE STATUS | V23L617 | 881 |
| 51 | | 2535 | 6011 | | CRD CM+1 | | 1AJ | 12314 |
| 52 | | 2536 | 6225 | | CWD CN | CLEAR FILE STATUS WORD | 1AJ | 12315 |
| 53 | | 2537 | 3011 | | LDD CM+1 | CHECK FILE SOURCE | 1AJ | 12316 |
| 54 | | 2540 | 1006 | | SHN 21-13 | | 1AJ | 12317 |

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| 2541 | 0746 | | MJN | RCSX | IF INPUT FILE | 1AJ | 12318 |
| 2542 | 3012 | | LDD | CM+2 | CHECK TRACK | 1AJ | 12319 |
| 2543 | 0444 | | ZJN | RCSX | IF NO TRACKS ASSIGNED | 1AJ | 12320 |
| 2544 | 3011 | | LDD | CM+1 | SET EQUIPMENT | 1AJ | 12321 |
| 2545 | 2200 | 0777 | LPC | 777 | | 1AJ | 12322 |
| 2547 | 3372 | | LMD | TH | SET RETURN-ON-INACCESSIBLE | 253L688 | 78 |
| 2550 | 3411 | | STD | CM+1 | | 1AJ | 12323 |
| 2551 | 1433 | | MONITOR | DTKM | DROP TRACKS | 1AJ | 12324 |
| | | | | | | 253L688 | 79 |
| | | * | | | NOTE - THE *DTKM* STATUS IS NOT CHECKED. IF TRACKS CANNOT | 253L688 | 80 |
| | | * | | | BE DROPPED ON AN INACCESSIBLE ISHARED DEVICE, THEY WILL JUST | 253L688 | 81 |
| | | * | | | BE LEFT RESERVED UNTIL THE NEXT TIME THE DEVICE IS RECOVERED | 253L688 | 82 |
| | | * | | | BY *MSM*. | 253L688 | 83 |
| | | | | | | 253L688 | 84 |
| 2554 | 0100 | 2510 | UJP | RCSX | RETURN | 1AJ | 12325 |
| | | | | | | | |
| | | ** | | | RDF - RELEASE DAYFILE TRACKS. | 1AJ | 12327 |
| | | * | | | | 1AJ | 12328 |
| | | * | | | ENTRY (NL) = NFL SIZE. | 1AJ114 | 2 |
| | | * | | | | 1AJ114 | 3 |
| | | * | | | USES CM+1 - CM+5, CN - CN+4. | 1AJ | 12329 |
| | | * | | | | 1AJ | 12330 |
| | | * | | | MACROS MONITOR, NFA. | 1AJ | 12331 |
| | | | | | | 1AJ | 12332 |
| | | | | | | 1AJ | 12333 |
| 2556 | 0100 | 2556 | RDF | SUBR | ENTRY/EXIT | 1AJ | 12334 |
| 2560 | 3037 | | LDD | NL | CHECK NEGATIVE FL | 1AJ114 | 4 |
| 2561 | 0474 | | ZJN | RDFX | IF NO NFL ASSIGNED | 1AJ114 | 5 |
| 2562 | 1466 | | LDN | ZERL | CLEAR ZERO WORD | 1AJ | 12335 |
| 2563 | 6025 | | CRD | CN | | 1AJ | 12336 |
| 2564 | 3055 | | NFA | DAPN+2 | READ DAYFILE BUFFER POINTER | NS2298 | 2 |
| 2567 | 6011 | | CRD | CM+1 | | 1AJ | 12338 |
| 2570 | 6225 | | CWD | CN | CLEAR DAYFILE BUFFER POINTERS | 1AJ | 12339 |
| 2571 | 1701 | | SBN | 1 | | 1AJ | 12340 |
| 2572 | 6225 | | CWD | CN | | 1AJ | 12341 |
| 2573 | 1701 | | SBN | 1 | | 1AJ | 12342 |
| 2574 | 6225 | | CWD | CN | | 1AJ | 12343 |
| 2575 | 3012 | | LDD | CM+2 | CHECK FIRST TRACK | 1AJ | 12344 |
| 2576 | 0457 | | ZJN | RDFX | IF NO DAYFILE TRACKS ASSIGNED | 1AJ | 12345 |
| 2577 | 3072 | | LDD | TH | SET RETURN-ON-INACCESSIBLE | 253L688 | 85 |
| 2600 | 3511 | | RAD | CM+1 | | 253L688 | 86 |
| 2601 | 1433 | | MONITOR | DTKM | DROP TRACKS | 1AJ | 12346 |
| | | | | | | 253L688 | 87 |
| | | * | | | NOTE - THE *DTKM* STATUS IS NOT CHECKED. IF TRACKS CANNOT | 253L688 | 88 |
| | | * | | | BE DROPPED ON AN INACCESSIBLE ISHARED DEVICE, THEY WILL JUST | 253L688 | 89 |
| | | * | | | BE LEFT RESERVED UNTIL THE NEXT TIME THE DEVICE IS RECOVERED | 253L688 | 90 |
| | | * | | | BY *MSM*. | 253L688 | 91 |
| | | | | | | 253L688 | 92 |
| 2604 | 0351 | | UJN | RDFX | RETURN | 1AJ | 12347 |

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| | | | ** | | REQ - RELEASE EQUIPMENT. | | 1AJ | 12349 |
| | | | * | | | | 1AJ | 12350 |
| | | | * | | RELEASES ALL EQUIPMENT AND CHANNELS ASSIGNED | | 1AJ | 12351 |
| 1 | | | * | | TO THE JOB. | | 1AJ | 12352 |
| 2 | | | * | | | | 1AJ | 12353 |
| 3 | | | * | | USES T1 - T4, CM - CM+4, CN - CN+4, FS - FS+4. | | 1AJ | 12354 |
| 4 | | | * | | | | 1AJ | 12355 |
| 5 | | | * | | MACROS MONITOR. | | 1AJ | 12356 |
| 6 | | | | | | | 1AJ | 12357 |
| 7 | | | | | | | 1AJ | 12358 |
| 8 | 2605 | 0100 2605 | | REQ | SUBR | ENTRY/EXIT | 1AJ | 12359 |
| 9 | 2607 | 3074 | | | LDD CP | READ EQUIPMENT ASSIGNED COUNTER | 1AJ | 12360 |
| 10 | 2610 | 1665 | | | ADN EACW | | 1AJ | 12361 |
| 11 | 2611 | 6010 | | | CRD CM | | 1AJ | 12362 |
| 12 | 2612 | 3010 | | | LDD CM | | 1AJ | 12363 |
| 13 | 2613 | 0471 | | | ZJN REQX | IF NO EQUIPMENT ASSIGNED | 1AJ | 12364 |
| 14 | 2614 | 3402 | | | STD T2 | SAVE COUNT OF EQUIPMENT ASSIGNED | 1AJ | 12365 |
| 15 | 2615 | 1472 | | | LDN ESTP | READ EST POINTER | 1AJ | 12369 |
| 16 | 2616 | 6020 | | | CRD FS | | 1AJ | 12370 |
| 17 | 2617 | 1400 | | | LDN DSEQ-1 | INITIALIZE EST ORDINAL FOR SEARCH | NS22000 | 463 |
| 18 | 2620 | 3401 | | | STD T1 | | 1AJ | 12376 |
| 19 | | | | | | | 1AJ | 12377 |
| 20 | | | * | | RELEASE EQUIPMENT ASSIGNED TO JOB. | | NS22000 | 464 |
| 21 | | | | | | | 1AJ | 12379 |
| 22 | 2621 | 3601 | | REQ1 | AOD T1 | ADVANCE EST ORDINAL | NS22000 | 465 |
| 23 | 2622 | 3411 | | | STD CM+1 | | 1AJ | 12381 |
| 24 | 2623 | 3322 | | | LMD FS+2 | | NS22000 | 466 |
| 25 | 2624 | 0421 | | | ZJN REQ2 | IF ALL EQUIPMENT PROCESSED | NS22000 | 467 |
| 26 | 2625 | 3001 | | | SFA EST,T1 | READ EQUIPMENT ASSIGNMENT | NS22000 | 468 |
| 27 | 2630 | 1601 | | | ADK EQAE | | NS22000 | 469 |
| 28 | 2631 | 6025 | | | CRD CN | | 1AJ | 12383 |
| 29 | 2632 | 3031 | | | LDD CN+4 | CHECK IF EQUIPMENT ASSIGNED | 1AJ | 12386 |
| 30 | 2633 | 3412 | | | STD CM+2 | NON-ZERO FOR POSSIBLE DOWNED DEVICE | 1AJ | 12388 |
| 31 | 2634 | 3345 | | | LMD JO | COMPARE EJT ORDINALS | 1AJ | 12389 |
| 32 | 2635 | 0563 | | | NJN REQ1 | IF NOT ASSIGNED TO THIS JOB | 1AJ | 12390 |
| 33 | 2636 | 1457 | | | MONITOR DEQM | RELEASE EQUIPMENT | 1AJ | 12391 |
| 34 | 2641 | 3702 | | | SOD T2 | | 1AJ | 12392 |
| 35 | 2642 | 0556 | | | NJN REQ1 | IF MORE EQUIPMENT TO CHECK | 1AJ | 12393 |
| 36 | 2643 | 0100 2706 | | | LJM REQ5 | CLEAR EQUIPMENT/CHANNEL ASSIGNMENT COUNT | 1AJ | 12394 |
| 37 | | | | | | | 1AJ | 12395 |
| 38 | | | * | | SET CHANNEL TABLE POINTERS. | | 1AJ | 12396 |
| 39 | | | | | | | 1AJ | 12397 |
| 40 | 2645 | 3401 | | REQ2 | STD T1 | INITIALIZE EJTO TABLE INDEX | 1AJ | 12398 |
| 41 | 2646 | 2000 0141 | | | LDK CHTP | READ CHANNEL TABLE POINTER | 1AJ | 12399 |
| 42 | 2650 | 6010 | | | CRD CM | | 1AJ | 12400 |
| 43 | 2651 | 1411 | | | LDK CTALL | SET LENGTH OF CHANNEL TABLE | 1AJ | 12401 |
| 44 | 2652 | 3404 | | | STD T4 | | 1AJ | 12402 |
| 45 | 2653 | 3012 | | | LDD CM+2 | SET FWA OF CTIL TABLE | 1AJ | 12403 |
| 46 | 2654 | 1014 | | | SHN 14 | | 1AJ | 12404 |
| 47 | 2655 | 3313 | | | LMD CM+3 | | 1AJ | 12405 |
| 48 | 2656 | 1611 | | | ADK CTALL | SET FWA OF EJTO TABLE | 1AJ | 12406 |
| 49 | 2657 | 6104 4076 | | | CRM TREQ,T4 | READ EJTO TABLE | 1AJ | 12407 |
| 50 | | | | | | | 1AJ | 12408 |
| 51 | | | * | | RELEASE ALL CHANNELS ASSIGNED TO JOB. | | 1AJ | 12409 |
| 52 | | | | | | | 1AJ | 12410 |
| 53 | 2661 | 5001 4076 | | REQ3 | LDM TREQ,T1 | CHECK CHANNEL EJT ASSIGNMENT | 1AJ | 12411 |
| 54 | 2663 | 3345 | | | LMD JO | | 1AJ | 12412 |

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| 2664 | 0517 | | NJN | REQ4 | IF NOT ASSIGNED TO THIS JOB | 1AJ | 12413 |
| 2665 | 3414 | | STD | CM+4 | CLEAR CP ASSIGNMENT IN REQUEST | 1AJ | 12414 |
| 2666 | 3001 | | LDD | T1 | SET CHANNEL NUMBER | 1AJ | 12415 |
| 2667 | 3413 | | STD | CM+3 | | 1AJ | 12416 |
| 2670 | 1414 | | LDN | CCNS | SET SUBFUNCTION | NS2358 | 125 |
| 2671 | 1414 | | LDN | CCNS | SET SUBFUNCTION | 242L642 | 713 |
| 2672 | 3412 | | STD | CM+2 | | 1AJ | 12418 |
| 2673 | 3074 | | LDD | CP | SET CONTROL POINT NUMBER | 1AJ | 12419 |
| 2674 | 1070 | | SHN | -7 | | 1AJ | 12420 |
| 2675 | 3411 | | STD | CM+1 | | 1AJ | 12421 |
| 2676 | 1420 | | MONITOR | SEQM | ISSUE MONITOR REQUEST | 1AJ | 12422 |
| 2701 | 3702 | | SOD | T2 | DECREMENT CHANNEL COUNT | 1AJ | 12423 |
| 2702 | 0404 | | ZJN | REQ5 | IF ALL CHANNELS RELEASED | 1AJ | 12424 |
| 2703 | 3601 | REQ4 | AOD | T1 | ADVANCE CHANNEL NUMBER | 1AJ | 12425 |
| 2704 | 1752 | | SBK | MXCH+1 | | 251L664 | 10 |
| 2705 | 0753 | | MJN | REQ3 | IF NOT END OF EJTO TABLE | 1AJ | 12427 |
| | | | | | | 1AJ | 12428 |
| | | * | | | CLEAR EQUIPMENT/CHANNEL ASSIGNED COUNT IN CP AREA. | 1AJ | 12429 |
| | | | | | | 1AJ | 12430 |
| 2706 | 3074 | REQ5 | LDD | CP | READ CP COUNT WORD | 1AJ | 12431 |
| 2707 | 1665 | | ADK | EACW | | 1AJ | 12432 |
| 2710 | 6010 | | CRD | CM | | 1AJ | 12433 |
| 2711 | 1400 | | LDN | 0 | CLEAR EQUIPMENT/CHANNEL COUNT | 1AJ | 12434 |
| 2712 | 3410 | | STD | CM | | 1AJ | 12435 |
| 2713 | 3074 | | LDD | CP | REWRITE COUNT WORD | 1AJ | 12436 |
| 2714 | 1665 | | ADK | EACW | | 1AJ | 12437 |
| 2715 | 6210 | | CWD | CM | | 1AJ | 12438 |
| 2716 | 0100 2605 | | LJM | REQX | RETURN | 1AJ | 12439 |
| | | | | | | | |
| | | ** | | | RIF - RELEASE INPUT FILE. | 1AJ | 12441 |
| | | * | | | | 1AJ | 12442 |
| | | * | | | ENTRY (NL) = NFL SIZE. | 1AJ114 | 6 |
| | | * | | | (JTOP) = JOB TERMINATION OPTION | 1AJ114 | 7 |
| | | * | | | (IFFN) = INPUT FILE FNT INDEX. | 1AJ | 12444 |
| | | * | | | | 1AJ | 12445 |
| | | * | | | EXIT INPUT FILE TRACKS RELEASED. | 1AJ | 12446 |
| | | * | | | | 1AJ | 12447 |
| | | * | | | USES CN, CM - CM+4, FS - FS+4. | NS2358 | 126 |
| | | * | | | | 1AJ | 12449 |
| | | * | | | CALLS *0DQ*. | 1AJ | 12450 |
| | | * | | | | 1AJ | 12451 |
| | | * | | | MACROS EXECUTE, MONITOR, NFA. | 1AJ | 12452 |
| | | | | | | 1AJ | 12453 |
| | | | | | | 1AJ | 12454 |
| 2720 | 0100 2720 | RIF | SUBR | | ENTRY/EXIT | 1AJ | 12455 |
| 2722 | 3037 | | LDD | NL | CHECK NEGATIVE FL | 1AJ114 | 8 |
| 2723 | 0474 | | ZJN | RIFX | IF NO NFL ASSIGNED | 1AJ114 | 9 |
| 2724 | 5000 1110 | | LDM | JTOP | CHECK TERMINATION OPTION | 1AJ | 12456 |
| 2726 | 1102 | | LMK | RJJT | | 1AJ | 12457 |
| 2727 | 0470 | | ZJN | RIFX | IF JOB TO BE RERUN | 1AJ | 12458 |
| 2730 | 1101 | | LMN | HRJT&RJJT | | V23L617 | 882 |
| 2731 | 0466 | | ZJN | RIFX | IF HARDWARE RERUN | V23L617 | 883 |
| 2732 | 1107 | | LMN | SRJT&HRJT | | 241L630 | 327 |
| 2733 | 0464 | | ZJN | RIFX | IF JOB TO BE RERUN | 241L630 | 328 |

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| 2734 | 5000 | 2357 | LDM | IFFN | CHECK FNT INDEX | 1AJ | 12459 | |
| 2736 | 0461 | | ZJN | RIFX | IF NO INPUT FILE | 1AJ | 12460 | |
| 2737 | 3425 | | STD | CN | | 1AJ | 12461 | |
| 2740 | 3055 | | NFA | CN,R | READ INPUT FILE FST | 1AJ | 12462 | |
| 2743 | 1601 | | ADN | FSTL | | NS2358 | 127 | |
| 2744 | 6020 | | CRD | FS | | NS2358 | 128 | |
| 2745 | 1402 | | LDN | 2 | SELECT DROP QUEUE FILE NOT IN QFT | NS2358 | 129 | |
| 2746 | 5400 | 4100 | STM | OVL-1 | | NS2358 | 130 | |
| 2750 | 1466 | | LDK | ZERL | CLEAR LOCAL FNT/FST ENTRY | 1AJ | 12471 | |
| 2751 | 6010 | | CRD | CM | | 1AJ | 12472 | |
| 2752 | 3025 | | LDD | CN | | 1AJ | 12473 | |
| 2753 | 3414 | | STD | CM+4 | | 1AJ | 12474 | |
| 2754 | 1400 | | LDN | DLFS | DELETE LOCAL FILE ENTRY | 1AJ | 12475 | |
| 2755 | 3411 | | STD | CM+1 | | 1AJ | 12476 | |
| 2756 | 1467 | | MONITOR | PLFM | | 1AJ | 12477 | |
| 2761 | 2000 | 4101 | EXECUTE | 0DQ,OVL | DROP INPUT FILE | 1AJ | 12478 | |
| | | | | | | 253L688 | 93 | |
| | * | | | | NOTE - THE *DTKM* STATUS IS NOT CHECKED. IF TRACKS CANNOT | 253L688 | 94 | |
| | * | | | | BE DROPPED ON AN INACCESSIBLE ISHARED DEVICE, THEY WILL JUST | 253L688 | 95 | |
| | * | | | | BE LEFT RESERVED UNTIL THE NEXT TIME THE DEVICE IS RECOVERED | 253L688 | 96 | |
| | * | | | | BY *MSM*. | 253L688 | 97 | |
| | | | | | | 253L688 | 98 | |
| 2770 | 0100 | 2720 | LJM | RIFX | RETURN | 1AJ | 12479 | |
| | | | | | | | | |
| | ** | | | | RLF - RELEASE LOCAL FILES. | 1AJ | 12481 | |
| | * | | | | | 1AJ | 12482 | |
| | * | | | | ENTRY (NL) = NEGATIVE FL. | 1AJ | 12483 | |
| | * | | | | | 1AJ | 12484 | |
| | * | | | | EXIT LOCAL FILES RELEASED. | 1AJ | 12485 | |
| | * | | | | (IFFN) = INPUT FILE FNT INDEX. | 1AJ | 12486 | |
| | * | | | | TO *DPP* IF WAIT FOR TAPE ACTIVITY COMPLETION. | 1AJ | 12487 | |
| | * | | | | | 1AJ | 12488 | |
| | * | | | | USES CN, T5, CM - CM+4, FN - FN+4. | NS2719 | 130 | |
| | * | | | | | 1AJ | 12490 | |
| | * | | | | CALLS DRF, MSR. | 242L642 | 714 | |
| | * | | | | | 1AJ | 12492 | |
| | * | | | | MACROS NFA. | 1AJ | 12493 | |
| | | | | | | 1AJ | 12494 | |
| | | | | | | 1AJ | 12495 | |
| 2772 | 3074 | | RLF4 | LDD | CP | CHECK FOR TAPE ACTIVITY | 1AJ | 12496 |
| 2773 | 1620 | | ADN | STSW | | 1AJ | 12497 | |
| 2774 | 6010 | | CRD | CM | | 1AJ | 12498 | |
| 2775 | 3014 | | LDD | CM+4 | | 1AJ | 12499 | |
| 2776 | 1073 | | SHN | -4 | | 1AJ | 12500 | |
| 2777 | 0403 | | NJP | RLF2 | IF TAPE ACTIVITY OUTSTANDING | 242L642 | 715 | |
| 3002 | 2000 | 0000 | LDC | 0 | IF NO MASS STORAGE ERROR | 242L642 | 716 | |
| | | | LDC | ** | EQUIPMENT IF RECOVERABLE ERROR | 242L642 | 717 | |
| | | 3003 | EQU | *-1 | | 242L642 | 718 | |
| 3004 | 0405 | | ZJN | RLFX | IF NO RECOVERABLE MASS STORAGE ERROR | 242L642 | 719 | |
| 3005 | 3405 | | STD | T5 | | 242L642 | 720 | |
| 3006 | 1400 | | LDN | 0 | FORCE *1RJ* CALL | NS2719 | 131 | |
| 3007 | 0200 | 2472 | RJM | MSR | PROCESS MASS STORAGE ERROR | 242L642 | 723 | |
| | | | | | | 1AJ | 12502 | |
| 3011 | 0100 | 3011 | RLF | SUBR | ENTRY/EXIT | 1AJ | 12503 | |

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| 3013 | 3037 | | LDD | NL | CHECK NEGATIVE FL | 1AJ114 | 10 |
| 3014 | 0474 | | ZJN | RLF4 | IF NO NFL ASSIGNED | 1AJ114 | 11 |
| 3015 | 2000 0321 | | LDK | FNTN-LENF | SET FNT FWA | 1AJ | 12504 |
| 3017 | 3425 | | STD | CN | | 1AJ | 12505 |
| 3020 | 1403 | RLF1 | LDK | LENF | ADVANCE FNT INDEX | 1AJ | 12506 |
| 3021 | 3525 | | RAD | CN | | 1AJ | 12507 |
| 3022 | 3237 | | SBD | NL | | 1AJ | 12508 |
| 3023 | 0646 | | PJN | RLF4 | IF END OF FNT | 1AJ | 12509 |
| 3024 | 3055 | | NFA | CN,R | SET FNT ADDRESS | 1AJ | 12510 |
| 3027 | 6040 | | CRD | FN | READ FNT ENTRY | 1AJ | 12511 |
| 3030 | 3040 | | LDD | FN | | 1AJ | 12512 |
| 3031 | 0466 | | ZJN | RLF1 | IF NULL ENTRY | 1AJ | 12513 |
| 3032 | 3044 | | LDD | FN+4 | CHECK FILE TYPE | 1AJ | 12514 |
| 3033 | 1071 | | SHN | -6 | | 1AJ | 12515 |
| 3034 | 1117 | | LMK | INFT | | 1AJ | 12516 |
| 3035 | 0417 | | ZJN | RLF3 | IF INPUT FILE | 1AJ | 12517 |
| 3036 | 0200 2437 | | RJM | DRF | DROP FILE | 1AJ | 12518 |
| 3040 | 0604 | | PJN | RLF1.1 | IF NO INACCESSIBLE DEVICE ERROR | NS2719 | 132 |
| 3041 | 3005 | | LDD | T5 | SET INACCESSIBLE DEVICE EST ORDINAL | NS2719 | 133 |
| 3042 | 5400 3003 | | STM | RLFA | | 242L642 | 729 |
| 3044 | 3074 | RLF1.1 | LDD | CP | CHECK FOR TAPE ACTIVITY | 242L642 | 730 |
| 3045 | 1620 | | ADN | STSW | | 1AJ | 12520 |
| 3046 | 6010 | | CRD | CM | | 1AJ | 12521 |
| 3047 | 3014 | | LDD | CM+4 | | 1AJ | 12522 |
| 3050 | 1070 | | SHN | -7 | | 1AJ | 12523 |
| 3051 | 0446 | | ZJN | RLF1 | IF NOT EXCESSIVE ACTIVITY | 1AJ | 12524 |
| 3052 | 0100 1571 | RLF2 | LJM | DPP | DROP PP TO WAIT FOR NO ACTIVITY | 1AJ | 12525 |
| | | | | | | 1AJ | 12526 |
| | | * | | | SET INPUT FILE FNT INDEX. | 1AJ | 12527 |
| | | | | | | 1AJ | 12528 |
| 3054 | 3025 | RLF3 | LDD | CN | SET FILE INDEX | 1AJ | 12529 |
| 3055 | 5400 2357 | | STM | IFFN | | 1AJ | 12530 |
| 3057 | 0340 | | UJP | RLF1 | LOOP FOR NEXT FILE | 242L642 | 731 |
| | | | | | | | |
| | | | ** | | RLN - RELEASE NEGATIVE FIELD LENGTH. | 1AJ | 12533 |
| | | | * | | | 1AJ | 12534 |
| | | | * | | CALLS NFL. | 1AJ | 12535 |
| | | | | | | 1AJ | 12536 |
| | | | | | | 1AJ | 12537 |
| 3060 | 0100 3060 | RLN | SUBR | | ENTRY/EXIT | 1AJ | 12538 |
| 3062 | 3037 | | LDD | NL | CHECK NEGATIVE FL ASSIGNED | 1AJ | 12539 |
| 3063 | 0474 | | ZJN | RLNX | IF NO NEGATIVE FL ASSIGNED | 1AJ | 12540 |
| 3064 | 1400 | | LDN | 0 | RELEASE NEGATIVE FL | 1AJ | 12541 |
| 3065 | 0200 3545 | | RJM | NFL | | 1AJ | 12542 |
| 3067 | 0370 | | UJN | RLNX | RETURN | 1AJ | 12543 |

| Line | Address | Code | Label | Subroutine | Description | Address | Count |
|------|---------|------|--------|---------------------------|--|--------------------------------------|-------------|
| | | ** | RQI | | REQUEUE INPUT FILE. | 1AJ | 12545 |
| | | * | | | | 1AJ | 12546 |
| | | * | ENTRY | (BFMS) | = INPUT FILE ORIGINAL QFT ENTRY | 1AJ | 12547 |
| | | * | | | IN SYSTEM SECTOR BUFFER. | 1AJ | 12548 |
| | | * | | | (CM+1) = ORDINAL OF NEW QFT ENTRY. | 1AJ | 12549 |
| | | * | | | (CM+3 - CM+4) = CM ADDRESS OF NEW QFT ENTRY. | 1AJ | 12550 |
| | | * | | | | 242L642 | 732 |
| | | * | EXIT | (A) | .LT. 0 IF MASS STORAGE ERROR OR INACCESSIBLE | 242L642 | 733 |
| | | * | | | DEVICE. | 242L642 | 734 |
| | | * | | | | 1AJ | 12551 |
| | | * | USES | FA, CM - CM+4, CN - CN+4. | | 1AJ42 | 1 |
| | | * | | | | 1AJ42 | 2 |
| | | * | CALLS | WSS. | | 1AJ42 | 3 |
| | | * | | | | 1AJ42 | 4 |
| | | * | | | | 1AJ42 | 5 |
| | | * | MACROS | ENDMS, SETMS, SFA. | | 1AJ | 12553 |
| | | * | | | | 1AJ | 12554 |
| | | * | | | | 1AJ | 12555 |
| 15 | 3070 | 0100 | 3070 | RQI | SUBR | ENTRY/EXIT | |
| 16 | 3072 | 3011 | | LDD | CM+1 | SET NEW QFT ORDINAL IN SYSTEM SECTOR | 1AJ42 6 |
| 17 | 3073 | 5400 | 7010 | STM | GQSS | | 1AJ42 7 |
| 18 | 3075 | 1403 | | LDN | QFTE-1 | SET ENTRY SIZE - 1 | 1AJ 12556 |
| 19 | 3076 | 3412 | | STD | CM+2 | | 1AJ 12557 |
| 20 | 3077 | 2000 | 0106 | LDK | RTCL | READ REAL TIME CLOCK | 1AJ 12558 |
| 21 | 3101 | 6025 | | CRD | CN | | 1AJ 12559 |
| 22 | 3102 | 3025 | | LDD | CN | SET QUEUE ENTRY TIME (SECONDS) | 1AJ 12560 |
| 23 | 3103 | 5400 | 7060 | STM | IOSS+ENTQ*5+3 | | 1AJ 12561 |
| 24 | 3105 | 3026 | | LDD | CN+1 | | 1AJ 12562 |
| 25 | 3106 | 5400 | 7061 | STM | IOSS+ENTQ*5+4 | | 1AJ 12563 |
| 26 | 3110 | 5000 | 1110 | LDM | JTOP | CHECK JOB TERMINATION OPTION | 1AJ69 1 |
| 27 | 3112 | 1703 | | SBK | HRJT | | 1AJ69 2 |
| 28 | | | 1 | ERRNG | SRJT-HRJT | CODE REQUIRES *SRJT* .GE. *HRJT* | 1AJ69 3 |
| 29 | 3113 | 0714 | | MJN | RQI1 | IF NOT HARDWARE/SOFTWARE ERROR RERUN | 1AJ69 4 |
| 30 | 3114 | 5000 | 7141 | LDM | HRSS | | 1AJ69 5 |
| 31 | 3116 | 5100 | 7142 | ADM | SESS | | 1AJ69 6 |
| 32 | 3120 | 1101 | | LMN | 1 | | 1AJ69 7 |
| 33 | 3121 | 0406 | | ZJN | RQI1 | IF FIRST ATTEMPT | 1AJ69 8 |
| 34 | 3122 | 1400 | | LDN | 0 | SET QUEUE PRIORITY TO ZERO | 1AJ69 9 |
| 35 | 3123 | 5400 | 7061 | STM | IOSS+ENTQ*5+4 | | 1AJ69 10 |
| 36 | 3125 | 5400 | 7060 | STM | IOSS+ENTQ*5+3 | | 1AJ69 11 |
| 37 | 3127 | 3011 | | RQI1 | SFA | QFT,CM+1 GET QFT ENTRY ADDRESS | 1AJ69 12 |
| 38 | 3132 | 1601 | | ADN | ENTQ | WRITE LAST 3 WORDS OF ENTRY | 1AJ 12565 |
| 39 | 3133 | 6312 | 7055 | CWM | IOSS+ENTQ*5,CM+2 | | 1AJ 12566 |
| 40 | 3135 | 5000 | 7054 | LDM | IOSS+JSNQ*5+4 | CLEAN UP STATUS FIELD | 1AJ 12567 |
| 41 | 3137 | 1317 | | SCN | 17 | | 1AJ 12568 |
| 42 | 3140 | 5400 | 7054 | STM | IOSS+JSNQ*5+4 | | 1AJ 12569 |
| 43 | 3142 | 3011 | | LDD | CM+1 | SAVE QFT ORDINAL | 1AJ71 3 |
| 44 | 3143 | 3425 | | STD | CN | | 1AJ71 4 |
| 45 | 3144 | 1400 | | LDN | 0 | REWRITE SYSTEM SECTOR | 1AJ42 8 |
| 46 | 3145 | 3457 | | STD | FA | | 1AJ42 9 |
| 47 | 3146 | 2000 | 1000 | SETMS | IO,RW | | 242L642 735 |
| 48 | 3152 | 0200 | 3767 | RJM | WSS | | 1AJ42 11 |
| 49 | 3154 | 0710 | | MJN | RQI2 | IF MASS STORAGE ERROR | 242L642 736 |
| 50 | 3155 | 0200 | 0535 | ENDMS | | | 1AJ42 12 |
| 51 | 3157 | 3025 | | SFA | QFT,CN | WRITE FIRST WORD OF THE QFT ENTRY | 1AJ71 5 |
| 52 | 3162 | 6370 | 7050 | CWM | IOSS+JSNQ*5,ON | | 1AJ71 6 |
| 53 | | | | * | LDN | 0 | 242L642 737 |
| 54 | 3164 | 0100 | 3070 | RQI2 | UJP | RQIX RETURN | 242L642 738 |

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|----|----|------|-----------|-------------------------------|---------------|--|---------|-------|
| | ** | | | RQF - RETRY QUEUED FUNCTIONS. | | | 253L688 | 100 |
| | * | | | | | | 253L688 | 101 |
| | * | | | ENTRY (EF) = ERROR FLAG. | | | 253L688 | 102 |
| | * | | | (JO) = JOB EJT ORDINAL. | | | 253L688 | 103 |
| | * | | | | | | 253L688 | 104 |
| | * | | | USES CM - CM+4. | | | 253L688 | 105 |
| | * | | | | | | 253L688 | 106 |
| | * | | | CALLS MSR, PQF. | | | 253L688 | 107 |
| | * | | | | | | 253L688 | 108 |
| | * | | | MACROS MONITOR, SFA. | | | 253L688 | 109 |
| | | | | | | | 253L688 | 110 |
| | | | | | | | 253L688 | 111 |
| 10 | | 3166 | 0100 3166 | RQF | SUBR | ENTRY/EXIT | 253L688 | 112 |
| 11 | | 3170 | 0200 3575 | | RJM PQF | PROCESS QUEUED FUNCTIONS | 253L688 | 113 |
| 12 | | 3172 | 3032 | | LDD AB | | 253L688 | 114 |
| 13 | | 3173 | 0472 | | ZJN RQFX | IF NO QUEUED FUNCTIONS REMAIN | 253L688 | 115 |
| 14 | | 3174 | 3046 | | LDD EF | | 253L688 | 116 |
| 15 | | 3175 | 1146 | | LMK ORET | | 253L688 | 117 |
| 16 | | 3176 | 0467 | | ZJN RQFX | IF OPERATOR OVERRIDE REQUESTED | 253L688 | 118 |
| 17 | | 3177 | 1401 | | LDN 1 | CHANGE JOB OWNER TO *SYSTEM* | 253L688 | 119 |
| 18 | | 3200 | 3411 | | STD CM+1 | | 253L688 | 120 |
| 19 | | 3201 | 3077 | | LDD MA | | 253L688 | 121 |
| 20 | | 3202 | 6311 3222 | | CWM RQFA,CM+1 | | 253L688 | 122 |
| 21 | | 3204 | 3045 | | SFA EJT,JO | | 253L688 | 123 |
| 22 | | 3207 | 3414 | | STD CM+4 | | 253L688 | 124 |
| 23 | | 3210 | 1063 | | SHN -14 | | 253L688 | 125 |
| 24 | | 3211 | 3413 | | STD CM+3 | | 253L688 | 126 |
| 25 | | 3212 | 2000 0115 | | MONITOR UTEM | | 253L688 | 127 |
| 26 | | 3216 | 1400 | | LDN 0 | FORCE *1RJ* CALL | NS2719 | 134 |
| 27 | | 3217 | 0200 2472 | | RJM MSR | ROLLOUT IF POSSIBLE | 253L688 | 128 |
| 28 | | 3221 | 0344 | | UJP RQFX | RETURN | 253L688 | 129 |
| 29 | | | | | | | 253L688 | 130 |
| 30 | | | | | | | 253L688 | 131 |
| 31 | | 3222 | 0030 | RQFA | VFD | 1/0,5/JSNE,6/24D,6/12D,42/01377777 | 253L688 | 132 |
| 32 | | 3223 | 1400 | | | | | |
| 33 | | 3224 | 0000 | | | | | |
| 34 | | 3225 | 0137 | | | | | |
| 35 | | 3226 | 7777 | | | | | |
| 36 | | | | | | | | |
| 37 | | | | | | | | |
| 38 | | | | | | | | |
| 39 | | | | | | | | |
| 40 | | | | ** | | RRJ - RERUN JOB. | 1AJ | 12574 |
| 41 | | | | * | | | 1AJ | 12575 |
| 42 | | | | * | | ENTRY (NL) = NFL SIZE. | 1AJ114 | 12 |
| 43 | | | | * | | | 1AJ114 | 13 |
| 44 | | | | * | | USES RC, T5, T6, T8, CM - CM+7. | NS2719 | 135 |
| 45 | | | | * | | | 1AJ | 12577 |
| 46 | | | | * | | CALLS CTE, DFM, MSR, RFI, RIF, RQI, RSS. | NS2719 | 136 |
| 47 | | | | * | | | 1AJ | 12579 |
| 48 | | | | * | | MACROS DELAY, ENDMS, MONITOR, NFA, PAUSE, SETMS. | 242L642 | 740 |
| 49 | | | | | | | 1AJ | 12581 |
| 50 | | | | | | | 1AJ | 12582 |
| 51 | | 3227 | 0100 3227 | RRJ | SUBR | ENTRY/EXIT | 1AJ | 12583 |
| 52 | | 3231 | 3037 | | LDD NL | CHECK NEGATIVE FL | 1AJ114 | 14 |
| 53 | | 3232 | 0474 | | ZJN RRJX | IF NO NFL ASSIGNED | 1AJ114 | 15 |
| 54 | | 3233 | 5000 1110 | | LDM JTOP | CHECK JOB TERMINATION OPTION | 1AJ | 12584 |
| 55 | | | | | | | | |
| 56 | | | | | | | | |
| 57 | | | | | | | | |
| 58 | | | | | | | | |
| 59 | | | | | | | | |
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|------|------|------|-------|-------------|---|---------|-------|
| 3235 | 1702 | | SBK | RJJT | | 241L630 | 330 |
| 3236 | 0770 | | MJN | RRJX | IF NOT SOME TYPE OF RERUN TERMINATION | 241L630 | 331 |
| | | 0 | ERRNZ | HRJT-RJJT-1 | CODE REQUIRES *HRJT* = *RJJT* + 1 | 241L630 | 332 |
| | | 0 | ERRNZ | SRJT-HRJT-1 | CODE REQUIRES *SRJT* = *HRJT* + 1 | 241L630 | 333 |
| | | 0 | ERRNZ | NXJT-SRJT-1 | CODE ASSUMES *SRJT* IS MAXIMUM RERUN TYPE | 241L630 | 334 |
| 3237 | 5000 | 2357 | LDM | IFFN | | 241L630 | 335 |
| 3241 | 0465 | | ZJN | RRJX | IF NO INPUT FILE | 1AJ | 12588 |
| 3242 | 3055 | | NFA | IFFN,R | READ INPUT FILE FST | 1AJ | 12589 |
| 3246 | 1601 | | ADN | FSTL | | 1AJ | 12590 |
| 3247 | 6010 | | CRD | CM | | 1AJ | 12591 |
| 3250 | 3010 | | LDD | CM | SET INPUT FILE EQUIPMENT | 1AJ | 12592 |
| 3251 | 3405 | | STD | T5 | | 1AJ | 12593 |
| 3252 | 3011 | | LDD | CM+1 | SET FIRST TRACK | 1AJ | 12594 |
| 3253 | 3406 | | STD | T6 | | 1AJ | 12595 |
| 3254 | 0412 | | ZJN | RRJ1 | IF NO TRACKS ASSIGNED | 241L630 | 336 |
| 3255 | 1400 | | SETMS | I0 | SET MASS STORAGE | 242L642 | 741 |
| | | | LDN | 0 | OMIT FILE NAME COMPARE | NS2776 | 5 |
| 3260 | 0200 | 3712 | RJM | RSS | READ SYSTEM SECTOR | 1AJ | 12599 |
| 3262 | 0406 | | ZJN | RRJ2 | IF NO ERRORS | 242L642 | 742 |
| 3263 | 0603 | | MJP | RRJ9 | IF MASS STORAGE ERROR | 242L642 | 743 |
| 3266 | 0100 | 3343 | RRJ1 | UJP | RRJ4 | 242L642 | 744 |
| | | | | | | 241L630 | 339 |
| 3270 | 0200 | 0535 | RRJ2 | ENDMS | | 241L630 | 340 |
| 3272 | 1466 | | LDN | ZERL | CLEAR INPUT FILE FST | 1AJ | 12602 |
| 3273 | 6013 | | CRD | CM+3 | | 1AJ | 12603 |
| 3274 | 3055 | | NFA | IFFN,R | | 1AJ | 12604 |
| 3300 | 1601 | | ADN | FSTL | | 1AJ | 12605 |
| 3301 | 6213 | | CWD | CM+3 | | 1AJ | 12606 |
| 3302 | 3013 | | LDD | CM+3 | INDICATE NO INPUT FILE | 1AJ | 12607 |
| 3303 | 5400 | 2357 | STM | IFFN | | 1AJ | 12608 |
| | | | | | | 1AJ | 12609 |
| | | | * | | RESERVE NEW QFT ENTRY FOR INPUT FILE. | 1AJ | 12610 |
| | | | | | | 1AJ | 12611 |
| 3305 | 1410 | | LDK | IORC | SET RETRY COUNT | 1AJ | 12612 |
| 3306 | 3466 | | STD | RC | | 1AJ | 12613 |
| 3307 | 1407 | | LDN | 7 | SET FLAGS FOR NEW QFT ENTRY | 1AJ | 12614 |
| 3310 | 3417 | | STD | CM+7 | | 1AJ | 12615 |
| 3311 | 5000 | 1110 | LDM | JTOP | | 241L630 | 341 |
| 3313 | 1701 | | SBK | RJJT-1 | SET INDEX | 241L630 | 342 |
| 3314 | 3416 | | STD | T8 | | 241L630 | 343 |
| 3315 | 2001 | 0003 | RRJ3 | LDC | PQFT+10000 | 241L630 | 344 |
| 3317 | 0200 | 3512 | RJM | CTE | | 1AJ | 12617 |
| 3321 | 3013 | | LDD | CM+3 | CHECK ADDRESS ASSIGNED | 1AJ | 12618 |
| 3322 | 3114 | | ADD | CM+4 | | 1AJ | 12619 |
| 3323 | 0530 | | NJN | RRJ5 | IF ENTRY ASSIGNED | 241L630 | 345 |
| 3324 | 3766 | | SOD | RC | DECREMENT RETRY COUNT | 241L630 | 346 |
| 3325 | 0716 | | MJN | RRJ4 | IF RETRY LIMIT EXCEEDED | 1AJ | 12629 |
| 3326 | 5000 | 0255 | DELAY | | DELAY 130 USECS | 1AJ | 12630 |
| 3332 | 1400 | | PAUSE | | | 1AJ | 12631 |
| 3340 | 3011 | | LDD | CM+1 | CHECK ERROR FLAG | 1AJ | 12632 |
| 3341 | 0502 | | NJN | RRJ4 | IF ERROR FLAG PRESENT | V23L617 | 903 |
| 3342 | 0352 | | UJN | RRJ3 | RETRY | 242L642 | 745 |
| | | | | | | 242L642 | 746 |
| 3343 | 1400 | | RRJ4 | LDN | TJJT | 1AJ | 12637 |
| 3344 | 5400 | 1110 | STM | JTOP | | 1AJ | 12638 |
| 3346 | 0200 | 2721 | RJM | RIF | RELEASE INPUT FILE | 1AJ | 12639 |
| 3350 | 1400 | | LDN | 0 | | 241L630 | 348 |

| | | | | | | | | | |
|------|------|------|------|------|---------|---|--------------------------------|---------|-----|
| 3351 | 3416 | | | STD | T8 | SELECT JOB NOT RERUN DAYFILE MESSAGE | 241L630 | 349 | |
| 3352 | 0331 | | | UJN | RRJ7 | ISSUE MESSAGE | 241L630 | 350 | |
| | | | | | | | 241L630 | 351 | |
| 3353 | 2000 | 7166 | | RRJ5 | LDC | FLSS | SET QFT FILE SIZE INDEX | 241L630 | 352 |
| 3355 | 0200 | 3644 | | | RJM | RFI | | 241L630 | 353 |
| 3357 | 3016 | | | | LDD | T8 | | 241L630 | 354 |
| 3360 | 1076 | | | | SHN | -1 | | 241L630 | 355 |
| 3361 | 0417 | | | | ZJN | RRJ6 | IF NOT HARDWARE/SOFTWARE RERUN | 241L630 | 356 |
| 3362 | 1405 | | | | LDN | ACFN/10000 | SET ACCOUNT FILE PARAMETER | 241L630 | 357 |
| 3363 | 5500 | 3405 | | | RAM | RRJA | | 241L630 | 358 |
| 3365 | 5616 | 7137 | | | AOM | HRSS-HRJT+RJJT-1,T8 | | 241L630 | 359 |
| | | | 0 | | ERRNZ | HRJT-RJJT-1 CODE REQUIRES *HRJT* = *RJJT* + 1 | | 241L630 | 360 |
| | | | 0 | | ERRNZ | SESS-HRSS-1 CODE REQUIRES *SESS* = *HRSS* + 1 | | 241L630 | 361 |
| 3367 | 5216 | 3430 | | | SBM | RRJC-HRJT+RJJT-1,T8 | | 241L630 | 362 |
| 3371 | 0707 | | | | MJN | RRJ6 | IF RERUN LIMIT NOT EXCEEDED | 241L630 | 363 |
| 3372 | 1421 | | | | LDK | HRIE-HRJT+RJJT-1 | | 241L630 | 364 |
| 3373 | 3116 | | | | ADD | T8 | | 241L630 | 365 |
| 3374 | 5400 | 7120 | | | STM | JASS | SET JOB ABORT CODE | 241L630 | 366 |
| 3376 | 1400 | | | | LDN | 0 | SET JOB NOT RERUN | 241L630 | 367 |
| 3377 | 3416 | | | | STD | T8 | | 241L630 | 368 |
| | | | 0 | | ERRNZ | SWIE-HRIE-1 CODE REQUIRES *SWIE* = *HRIE* + 1 | | 241L630 | 369 |
| 3400 | 0200 | 3071 | | RRJ6 | RJM | RQI | REQUEUE INPUT FILE | 241L630 | 370 |
| 3402 | 0711 | | | | MJN | RRJ8 | IF MASS STORAGE ERROR | 242L642 | 747 |
| 3403 | 5016 | 3426 | | RRJ7 | LDM | RRJB,T8 | ISSUE MESSAGE | 241L630 | 371 |
| 3405 | 2300 | 0000 | | | LMC | 0 | | 241L630 | 372 |
| | | | 3405 | * | LMC | ACFN | HARDWARE/SOFTWARE RERUN | 241L630 | 373 |
| | | | | RRJA | EQU | *-2 | | 241L630 | 374 |
| 3407 | 0200 | 0423 | | | RJM | DFM | | 241L630 | 375 |
| 3411 | 0100 | 3227 | | | LJM | RRJX | RETURN | 241L630 | 376 |
| | | | | | | | | 242L642 | 748 |
| 3413 | 1403 | | | RRJ8 | LDK | PQFT | RETURN QFT ENTRY | 242L642 | 749 |
| 3414 | 3412 | | | | STD | CM+2 | | 242L642 | 750 |
| 3415 | 1466 | | | | MONITOR | MTRM | | 242L642 | 751 |
| 3420 | 5000 | 0103 | | RRJ9 | LDM | RDCT | GET ERROR STAUS | NS2719 | 137 |
| 3422 | 0200 | 2472 | | | RJM | MSR | PROCESS MASS STORAGE ERROR | NS2719 | 138 |
| 3424 | 0100 | 3343 | | | LJM | RRJ4 | RELEASE INPUT FILE | 242L642 | 753 |
| | | | | | | | | 241L630 | 377 |
| 3426 | 4042 | | | RRJB | CON | =C* JOB NOT RERUN.* | | 241L630 | 378 |
| 3427 | 4053 | | | | CON | =C* JOB RERUN.* | | 241L630 | 379 |
| 3430 | 4062 | | | | CON | =C*AERR, HW.* | | 241L630 | 380 |
| 3431 | 4070 | | | | CON | =C*AERR, SW.* | | 241L630 | 381 |
| | | | | | | | | 241L630 | 382 |
| 3432 | 0003 | | | RRJC | CON | HRTL+1 | | 241L630 | 383 |
| 3433 | 0003 | | | | CON | MSER+1 | | 241L630 | 384 |

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| | ** | | | URF - UPDATE RESOURCE DEMAND FILE. | | 1AJ | 12647 |
| | * | | | | | 1AJ | 12648 |
| | * | | | EXIT RESOURCE DEMAND FILE ENTRY CLEARED. | | 1AJ | 12649 |
| | * | | | | | 1AJ | 12650 |
| | * | | | USES FA, FS+1, AB - AB+4. | | NS2719 | 139 |
| | * | | | | | 1AJ | 12652 |
| | * | | | CALLS MSR, *ORF*. | | 242L642 | 754 |
| | * | | | | | 1AJ | 12654 |
| | * | | | MACROS EXECUTE. | | 1AJ | 12655 |
| | | | | | | 1AJ | 12656 |
| | | | | | | 1AJ | 12657 |
| | | | | | | 1AJ | 12658 |
| 9 | | 3434 | 0100 3434 | URF SUBR | ENTRY/EXIT | | |
| 10 | | 3436 | 3074 | LDD CP | READ RESOURCE CONTROL WORD | 1AJ | 12659 |
| 11 | | 3437 | 1675 | ADK RFCW | | 1AJ | 12660 |
| 12 | | 3440 | 6032 | CRD AB | | 253L688 | 134 |
| 13 | | 3441 | 3035 | LDD AB+3 | CHECK DEMAND FILE RANDOM INDEX | 253L688 | 135 |
| 14 | | 3442 | 1277 | LPN 77 | | 1AJ | 12663 |
| 15 | | 3443 | 3136 | ADD AB+4 | | 253L688 | 136 |
| 16 | | 3444 | 0467 | ZJN URFX | IF NO RANDOM INDEX | 1AJ | 12666 |
| 17 | | 3445 | 1400 | LDN 0 | | NS2362 | 2 |
| 18 | | 3446 | 3457 | STD FA | SET NO FNT ENTRY | NS2362 | 3 |
| 19 | | 3447 | 3435 | STD AB+3 | CLEAR DEMAND FILE RANDOM INDEX | 253L688 | 137 |
| 20 | | 3450 | 3436 | STD AB+4 | | 253L688 | 138 |
| 21 | | 3451 | 1404 | LDN 4 | | NS2358 | 132 |
| 22 | | 3452 | 3421 | STD FS+1 | CLEAR RESOURCE DEMAND FILE ENTRY | NS2358 | 133 |
| 23 | | 3453 | 2000 4101 | EXECUTE ORF,OVL | | 1AJ | 12671 |
| 24 | | 3462 | 0604 | PJN URF1 | IF NO INACCESSIBLE DEVICE ERROR | NS2719 | 140 |
| 25 | | 3463 | 1400 | LDN 0 | FORCE *1RJ* CALL | NS2719 | 141 |
| 26 | | 3464 | 0200 2472 | RJM MSR | PROCESS MASS STORAGE ERROR | 242L642 | 756 |
| 27 | | 3466 | 3074 | URF1 LDD CP | CLEAR RESOURCE CONTROL WORD | 253L688 | 140 |
| 28 | | 3467 | 1675 | ADK RFCW | | 253L688 | 141 |
| 29 | | 3470 | 6232 | CWD AB | | 253L688 | 142 |
| 30 | | 3471 | 0342 | UJN URFX | RETURN | 242L642 | 757 |
| 35 | ** | | | EXECUTABLE COMMON DECKS. | | 1AJ | 12674 |
| 36 | | | | | | 1AJ | 12675 |
| 37 | | | | | | 1AJ | 12676 |
| 38 | | 3472 | | CTEXT COMPCTE - CREATE MANAGED TABLE ENTRY. | | COMPCTE | 1 |
| 39 | | 3535 | | CTEXT COMPNFL - REQUEST NEGATIVE FL. | | COMPNFL | 1 |
| 40 | | 3570 | 3632 | PROQF NL | PROCESS QUEUED FUNCTIONS | 253L688 | 143 |
| 41 | | 3635 | | CTEXT COMPRFI - RETURN FILE SIZE INDEX. | | COMPRFI | 1 |
| 42 | | 3706 | | CTEXT COMPRSS - READ SYSTEM SECTOR. | | COMPRSS | 1 |
| 43 | | 3766 | | CTEXT COMPWSS - WRITE SYSTEM SECTOR. | | COMPWSS | 1 |
| 44 | | | 2734 | ERRNG BFMS-* | | 1AJ | 12680 |

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| 4076 | 55 | TREQ | USE | OVERLAY | CHANNEL STATUS TABLE BUFFER | 1AJ | 12682 |
|------|------|------|-------|---------------|---------------------------------|---------|-------|
| | 4101 | OVL | BSSZ | CTALL*5 | ZERO LEVEL OVERLAY LOAD ADDRESS | 1AJ | 12683 |
| | 2074 | | EQU | TREQ+3 | | NS2358 | 134 |
| | 2175 | | ERRNG | BFMS-OVL-ZDFL | CHECK LENGTH OF *0DF* | 1AJ | 12686 |
| | 2175 | | ERRNG | BFMS-OVL-ZDQL | CHECK LENGTH OF *0DQ* | 242L642 | 758 |
| | | | ERRNG | BFMS-OVL-ZRFL | CHECK LENGTH OF *0RF* | 1AJ | 12688 |

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| Line | Code | Address | Subroutine | Description | Address | Page |
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| 1 | ** | | TSS | PROCESS SUBSYSTEM TERMINATION. | 1AJ | 12733 |
| 2 | * | | | | 1AJ | 12734 |
| 3 | * | | | IF THE JOB IS A SUBSYSTEM, CLEARS THE SUBSYSTEM FROM | 1AJ | 12735 |
| 4 | * | | | THE SUBSYSTEM ACTIVITY TABLE AND SETS THE SUBSYSTEM | 1AJ | 12736 |
| 5 | * | | | INACCESSIBLE IN THE SUBSYSTEM CONTROL TABLE. | 1AJ | 12737 |
| 6 | * | | | | 1AJ | 12738 |
| 7 | * | | ENTRY (CJTA) | = SUBSYSTEM ID. | NS2181B | 17 |
| 8 | * | | | | 1AJ | 12740 |
| 9 | * | | CALLS | AST. | 1AJ | 12741 |
| 10 | | | | | 1AJ | 12742 |
| 11 | | | | | 1AJ | 12743 |
| 12 | | 4222 | 0100 | 4222 TSS SUBR ENTRY/EXIT | 1AJ | 12744 |
| 13 | | 4224 | 5000 | 2353 LDM CJTA GET SUBSYSTEM ID | NS2181B | 18 |
| 14 | | 4226 | 2177 | 0031 SBK LSSI+1 | 1AJ | 12749 |
| 15 | | 4230 | 0771 | MJN TSSX IF NOT SUBSYSTEM | 1AJ | 12750 |
| 16 | | 4231 | 2000 | 7750 LDC PLSI CHECK FOR CYBIS | NS2746 | 1 |
| 17 | | 4233 | 5300 | 2353 LMM CJTA | NS2181B | 19 |
| 18 | | 4235 | 0511 | NJN TSS1 IF NOT CYBIS | NS2746 | 2 |
| 19 | | 4236 | 2004 | 0000 LDC FEAFF*10000 FETCH *SSAT* ENTRY (EJT ORDINAL) | NS2244 | 5 |
| 20 | | 4240 | 5100 | 2353 ADM CJTA | NS2181B | 20 |
| 21 | | 4242 | 0200 | 4265 RJM AST | NS2244 | 7 |
| 22 | | 4244 | 3345 | LMD JO CHECK IF CURRENT JOB | NS2244 | 8 |
| 23 | | 4245 | 0554 | NJN TSSX IF NO MATCH, DONT UPDATE TABLES | NS2244 | 9 |
| 24 | | | | | NS2244 | 10 |
| 25 | | 4246 | 2005 | 0000 TSS1 LDC CEAF*10000 SET *CLEAR SSAT ENTRY* REQUEST | NS2244 | 11 |
| 26 | | 4250 | 5100 | 2353 ADM CJTA | NS2181B | 21 |
| 27 | | 4252 | 0200 | 4265 RJM AST CLEAR SSAT ENTRY | 1AJ | 12754 |
| 28 | | 4254 | 2002 | 0000 LDC CSCF*10000 CLEAR SUBSYSTEM ACCESSIBLE FLAG IN SSCT | 1AJ | 12755 |
| 29 | | 4256 | 5100 | 2353 ADM CJTA | NS2181B | 22 |
| 30 | | 4260 | 0200 | 4265 RJM AST | 1AJ | 12758 |
| 31 | | 4262 | 0100 | 4222 UJP TSSX RETURN | 1AJ | 12759 |
| 32 | | | | | | |
| 33 | ** | | | ASSEMBLY OPTIONS FOR OVERLAID COMMON DECKS. | 1AJ | 12761 |
| 34 | | | | | 1AJ | 12762 |
| 35 | | | | | 1AJ | 12763 |
| 36 | | 1 | AST\$ | EQU 1 ASSEMBLE TABLE UPDATE CODE (COMPAST) | 1AJ | 12764 |
| 37 | | | | | | |
| 38 | | | | | | |
| 39 | | | | | | |
| 40 | | | | | | |
| 41 | ** | | | OVERLAID COMMON DECKS. | 1AJ | 12766 |
| 42 | | | | | 1AJ | 12767 |
| 43 | | | | | 1AJ | 12768 |
| 44 | | 4264 | | CTEXT COMPAST - ACCESS SUBSYSTEM TABLES. | COMPAST | 1 |
| 45 | | | | OVERFLOW | 241L630 | 385 |
| 46 | | | | | | |
| 47 | | | | | OVERFLOW.1 | |
| 48 | | 3105 | | ERRNG .2-.1+5-.3/500B*500B BYTES LEFT AFTER LAST SECTOR | OVERFLOW.1 | |
| 49 | | 160 | | ERRNG .3/500B*500B-*.1-5 BYTES LEFT IN LAST SECTOR | OVERFLOW.1 | |
| 50 | | 3260 | | ERRNG .4/500B*500B-*.1-5 BYTES CAN BE ADDED TO OVERLAY | OVERFLOW.1 | |
| 51 | | 6 | | ERRNG .3/500B SECTORS NEEDED FOR OVERLAY | OVERFLOW.1 | |
| 52 | | | | | OVERFLOW.1 | |
| 53 | | | | | OVERFLOW.1 | |
| 54 | | | | LIST * | | |
| 55 | | | | | | |
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QUAL ERR NS2031 309
 IDENT 3AM,ERRX TCS ERROR PROCESSOR. NS22000 470
 COMMENT 82/02/26. 95/06/23. 1AJ - TCS ERROR PROCESSOR. NS2031 311
 COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992. 281L803 17

*** 3AM - TCS ERROR PROCESSOR. NS2031 314
 * NS2031 315
 * *3AM* PROCESSES ERROR MESSAGES AND TERMINATION PROCESSING NS2031 316
 * FOR *TCS*. NS2031 317

1273 ORG /TCS/EOVL+5 NS2031 319

** ERR - PROCESS ERROR MESSAGE. NS2031 321
 * NS2031 322
 * ENTRY (EF) = ERROR MESSAGE ADDRESS. NS2031 323
 * (EP) = CALL FLAG, 0 = *TCS* CALL. NS2031 324
 * (AB - AB+4) = CENTRAL LIBRARY DIRECTORY NAME 241L630 386
 * IF *EM26*. 241L630 387
 * NS2031 325
 * EXIT TO *DPP*, *IST* OR *RCA8* IF NOT *SSJ=* REQUEST. NS2031 326
 * TO */3AF/RFJ* IF TO RESTORE *SSJ=* JOB. NS2031 327
 * TO *PPR* IF *LDR* CALL. NS2031 328
 * NS2031 329
 * CALLS AKW, CAT, DFM, IPL, RAS, *3AF*. NS2031 330

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| 1273 | 0100 | 1273 | ERR | SUBR ENTRY | NS2031 333 |
| 1275 | 3037 | | LDD | EP | NS2031 334 |
| 1276 | 0403 | | ZJN | ERR1 IF *TCS* CALL | NS2031 335 |
| 1277 | 0100 | 1467 | LJM | ERR9 PROCESS *LDR* CALL | NS2031 336 |
| 1301 | 3046 | | LDD | EF | NS2031 337 |
| 1302 | 5400 | 1464 | STM | ERRA | NS2031 338 |
| 1304 | 2300 | 1605 | LMC | EM06 | NS2031 339 |
| 1306 | 0511 | | NJN | ERR2 IF NOT *CHARGE COMMAND REQUIRED.* | V23L617 908 |
| 1307 | 2000 | 4000 | LDC | 4000 SET EOR | NS2031 342 |
| 1311 | 3441 | | STD | SP+1 | NS2031 343 |
| 1312 | 3044 | | LDD | SP+4 SET BUFFER EMPTY | NS2031 344 |
| 1313 | 3443 | | STD | SP+3 | NS2031 345 |
| 1314 | 3074 | | LDD | CP STORE COMMAND POINTER | V23L617 909 |
| 1315 | 1673 | | ADN | CSPW | NS2031 347 |
| 1316 | 6240 | | CWD | SP | NS2031 348 |
| 1317 | 3035 | | LDD | AB+3 ERR2 INSURE NAME ENDS WITH A ZERO | 241L630 388 |
| 1320 | 1377 | | SCN | 77 | 241L630 389 |
| 1321 | 3435 | | STD | AB+3 | 241L630 390 |
| 1322 | 1400 | | LDN | 0 | 241L630 391 |
| 1323 | 3436 | | STD | AB+4 | 241L630 392 |
| 1324 | 3077 | | LDD | MA COPY CENTRAL LIBRARY DIRECTORY NAME | 241L630 393 |

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| 1325 | 6232 | | CWD | AB | | 241L630 | 394 |
| 1326 | 6170 | 2241 | CRM | EM26+15,ON | | 241L630 | 395 |
| 1330 | 0200 | 2750 | RJM | /TCS/IPL | CLEAR *EECW* AND *TIAW* | 241L630 | 396 |
| 1332 | 1466 | | LDN | ZERL | | 1AJ28 | 24 |
| 1333 | 6010 | | CRD | CM | | 1AJ28 | 25 |
| 1334 | 5400 | 1143 | STM | /TCS/TCSF | | 1AJ92 | 118 |
| 1336 | 2300 | 6210 | LMC | CWDI+10 | | 1AJ28 | 27 |
| 1340 | 0505 | | NJN | ERR2.1 | IF *SHELL* ABORT OPTION NOT SET | 1AJ28 | 28 |
| 1341 | 3055 | | NFA | SHCN | | 1AJ28 | 29 |
| 1344 | 6210 | | CWD | CM | | 1AJ28 | 30 |
| 1345 | 3056 | | ERR2.1 | LDD | FL | 1AJ28 | 31 |
| 1346 | 0405 | | ZJN | ERR3 | IF NO FL | NS2031 | 351 |
| 1347 | 3055 | | LDD | RA | | NS2031 | 354 |
| 1350 | 1006 | | SHN | 6 | | NS2031 | 355 |
| 1351 | 1602 | | ADN | ARGR | | NS2031 | 356 |
| 1352 | 6210 | | CWD | CM | | NS2031 | 357 |
| 1353 | 0200 | 2651 | ERR3 | RJM | /TCS/CAT CLEAR ADDRESS FOR *TCS* EXECUTE COMMAND | V23L617 | 910 |
| 1355 | 1611 | | ADN | SPCW-RFCW | | NS2031 | 359 |
| 1356 | 6010 | | CRD | CM | | NS2031 | 360 |
| 1357 | 3010 | | LDD | CM | | NS2031 | 361 |
| 1360 | 0435 | | ZJN | ERR4 | IF NOT SPECIAL REQUEST | NS2031 | 362 |
| 1361 | 3010 | | LDD | CM | | 1AJ80 | 1 |
| 1362 | 1177 | | LMN | 77 | | 1AJ80 | 2 |
| 1363 | 0507 | | NJN | ERR3.1 | IF NOT A COMMAND CALL | 1AJ80 | 3 |
| 1364 | 5400 | 3250 | STM | /TCS/ISDA | ISSUE DAYFILE MESSAGE VIA *DFM* | 1AJ80 | 4 |
| 1366 | 2000 | 4334 | LDC | STMT | | 1AJ80 | 5 |
| 1370 | 0200 | 3243 | RJM | /TCS/ISD | | 1AJ80 | 6 |
| 1372 | 3074 | | ERR3.1 | LDD | CP UPDATE COMMAND POINTER | 1AJ80 | 7 |
| 1373 | 1673 | | ADN | CSPW | | NS2031 | 364 |
| 1374 | 6240 | | CWD | SP | | NS2031 | 365 |
| 1375 | 3046 | | LDD | EF | ISSUE MESSAGE | NS2031 | 366 |
| 1376 | 0200 | 0423 | RJM | DFM | | NS2031 | 367 |
| 1400 | 1406 | | LDN | PPET | SET ERROR FLAG | NS2031 | 368 |
| 1401 | 3411 | | STD | CM+1 | | NS2031 | 369 |
| 1402 | 1454 | | MONITOR | CEFM | | NS2031 | 370 |
| 1405 | 0200 | 3330 | RJM | /TCS/RAS | RESET AFTER *SSJ=* JOB | NS2031 | 371 |
| 1407 | 2036 | 0106 | EXECUTE | 3AF | | NS2031 | 372 |
| 1413 | 0100 | 5522 | LJM | /3AF/RFJ | RESET FORMER JOB | NS2031 | 373 |
| | | | | | | NS2031 | 374 |
| 1415 | 5000 | 1254 | ERR4 | LDM | /TCS/CSEB | NS2031 | 375 |
| 1417 | 1016 | | SHN | 21-3 | | NS2031 | 376 |
| 1420 | 0617 | | PJN | ERR5 | IF SDM= NOT PRESENT | NS2031 | 377 |
| 1421 | 1004 | | SHN | 3+1 | | NS2031 | 378 |
| 1422 | 1310 | | SCN | 10 | CLEAR SDM= | NS2031 | 379 |
| 1423 | 5400 | 1254 | STM | /TCS/CSEB | | NS2031 | 380 |
| 1425 | 0200 | 2571 | RJM | /TCS/AKW | ASSEMBLE KEYWORD | NS2031 | 381 |
| 1427 | 1400 | | LDN | 0 | CLEAR END OF PROGRAM NAME | NS2031 | 382 |
| 1430 | 3436 | | STD | AB+4 | | NS2031 | 383 |
| 1431 | 5400 | 4365 | STM | STMT+5*5 | PREVENT ISSUING REMAINDER OF MESSAGE | 1AJ74 | 1 |
| 1433 | 3077 | | LDD | MA | | NS2031 | 384 |
| 1434 | 6232 | | CWD | AB | | NS2031 | 385 |
| 1435 | 6170 | 4334 | CRM | STMT,ON | | NS2031 | 386 |
| 1437 | 3052 | | ERR5 | LDD | IR+2 | NS2031 | 387 |
| 1440 | 1704 | | SBN | 4 | | NS2031 | 388 |
| 1441 | 0412 | | ZJN | ERR7 | IF COMMAND READ | V23L617 | 912 |
| 1442 | 1701 | | SBN | 5-4 | | NS2031 | 390 |
| 1443 | 0406 | | ZJN | ERR6 | IF COMMAND EXECUTE FROM CM | V23L617 | 913 |

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| 1444 | 1603 | | ADN | 5-2 | | NS2031 | 392 |
| 1445 | 0504 | | NJN | ERR6 | IF NOT *DIS* CALL | NS2031 | 393 |
| 1446 | 3054 | | LDD | IR+4 | CHECK CALL | NS2031 | 394 |
| 1447 | 1017 | | SHN | 21-2 | | NS2031 | 395 |
| 1450 | 0705 | | MJN | ERR8 | IF *DIS* X. CALL | NS2031 | 396 |
| 1451 | 0100 | 1152 | LJM | /TCS/IST | ISSUE COMMAND | V23L617 | 914 |
| 1453 | 0100 | 5624 | LJM | /TCS/RCA8 | CLEAR COMMAND BUFFER | NS2031 | 398 |
| 1455 | 1405 | | LDN | MS2W-MS1W | COMMAND TO MESSAGE AREA 1 | V23L617 | 916 |
| 1456 | 3401 | | STD | T1 | | NS2031 | 402 |
| 1457 | 3074 | | LDD | CP | | NS2031 | 403 |
| 1460 | 1631 | | ADN | MS1W | | NS2031 | 404 |
| 1461 | 6301 | 4334 | CWM | STMT,T1 | | NS2031 | 405 |
| 1463 | 6373 | 1463 | CWM | *,TR | STATUS MESSAGE TO MESSAGE AREA 2 | NS2031 | 406 |
| 1465 | 0100 | 1234 | EQU | *-1 | | NS2031 | 407 |
| | | | LJM | /TCS/DPP | DROP PP | NS2031 | 408 |
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| | | | * | PROCESS *LDR* ERRORS. | | NS2031 | 410 |
| 1467 | 2003 | 0000 | LDC | CPON | ISSUE MESSAGE TO CP DAYFILE | NS2031 | 411 |
| 1471 | 3346 | | LMD | EF | | NS2031 | 412 |
| 1472 | 0200 | 0423 | RJM | DFM | | NS2031 | 413 |
| 1474 | 1447 | | MONITOR | ABTM | | NS2031 | 414 |
| 1477 | 0100 | 0257 | LJM | PPR | RETURN TO RESIDENT | NS2031 | 415 |
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| 1501 | 5506 | | EM01 | DATA | C* FL BEYOND MFL.* | NS2031 | 421 |
| 1512 | 5506 | | EM02 | DATA | C* FL TOO SHORT FOR PROGRAM.* | NS2031 | 422 |
| 1530 | 5506 | | EM03 | DATA | C* FORMAT ERROR ON COMMAND.* | V23L617 | 917 |
| 1546 | 5511 | | EM04 | DATA | C* INTERACTIVE JOB STEP, DUMP DISABLED.* | NS2031 | 424 |
| 1572 | 5511 | | EM05 | DATA | C* INCORRECT COMMAND.* | V23L617 | 918 |
| 1605 | 5503 | | EM06 | DATA | C* CHARGE COMMAND REQUIRED.* | V23L617 | 919 |
| 1623 | 5522 | | EM07 | DATA | C* RESERVED.* | NS2388 | 89 |
| 1631 | 5522 | | EM08 | DATA | C* RESERVED.* | NS2388 | 90 |
| 1637 | 5523 | | EM09 | DATA | C* SECURE MEMORY, DUMP DISABLED.* | NS2031 | 429 |
| 1657 | 5524 | | EM10 | DATA | C* TCS INCORRECT REQUEST.* | V23L617 | 921 |
| 1674 | 5524 | | EM11 | DATA | C* TOO MANY ARGUMENTS.* | NS2031 | 431 |
| 1707 | 5514 | | EM12 | DATA | C* LDR - ENTRY POINT NOT FOUND.* | NS2031 | 432 |
| 1727 | 5511 | | EM13 | DATA | C* IEDIT BUFFER ERROR.* | NS2031 | 433 |
| 1742 | 5507 | | EM14 | DATA | C* GLOBAL LIBRARY DIRECTORY NOT FOUND.* | NS2031 | 434 |
| 1765 | 5511 | | EM15 | DATA | C* I/O SEQUENCE ERROR.* | NS2031 | 435 |
| 2000 | 5532 | | EM16 | DATA | C* ZZZZZLD NOT ON MASS STORAGE.* | NS2031 | 436 |
| 2020 | 5507 | | EM17 | DATA | C* GLOBAL LIBRARY DIRECTORY DEFECTIVE.* | NS2031 | 437 |
| 2043 | 5525 | | EM18 | DATA | C* USER LIBRARY NOT ON MASS STORAGE.* | NS2031 | 438 |
| 2065 | 5525 | | EM19 | DATA | C* USER LIBRARY NOT FOUND.* | NS2031 | 439 |
| 2102 | 5511 | | EM20 | DATA | C* INCORRECT LOAD ADDRESS.* | V23L617 | 922 |
| 2117 | 5506 | | EM21 | DATA | C* FLE TOO SHORT FOR LOAD.* | NS2031 | 441 |
| 2134 | 5525 | | EM22 | DATA | C* UNIDENTIFIED PROGRAM FORMAT.* | NS2031 | 442 |
| 2154 | 5525 | | EM23 | DATA | C* UNRECOVERED MASS STORAGE ERROR.* | NS2031 | 443 |
| 2175 | 5517 | | EM24 | DATA | C* OVERLAY LOST.* | NS2031 | 444 |
| 2205 | 5547 | | EM25 | DATA | C\$ *SHELL* PROGRAM NOT FOUND.\$ | NS21000 | 657 |

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| | ABCP | 1 | | 291/43 | 291/43 | | | | | | |
| | ABIF | 6 | | 91/19 | | | | | | | |
| | ABMP | 0 | | 292/01 | | | | | | | |
| 1 | ABMS | 2 | | 291/44 | 291/44 | | | | | | |
| 2 | ABMT | 3 | | 291/45 | 291/45 | | | | | | |
| 3 | ABNA | 6 | | 290/13 | 291/48 | 291/49 | 291/50 | 291/52 | | | |
| 4 | | | | 291/22 | 291/48 | 291/49 | 291/50 | | | | |
| 5 | ABNB | 3 | | 290/57 | 291/07 | 292/05 | | | | | |
| 6 | ABOD | 2 | | 292/03 | 292/03 | | | | | | |
| 7 | ABOF | 10 | | 290/54 | | | | | | | |
| 8 | ABPF | 4 | | 291/46 | 291/46 | | | | | | |
| 9 | ABRT | 11 | | 218/22 | 218/28 | 273/49 | 273/53 | | | | |
| 10 | ABSR | 0 | | 283/30 | 291/09 | 291/42 | | | | | |
| 11 | ABTM | 47 | NOSTEXT | 178/26 | 210/03 | 324/24 | | | | | |
| 12 | ABUS | 7 | | 196/50 | 284/49 | | | | | | |
| 13 | ABVF | 5 | | 290/10 | | | | | | | |
| 14 | ACFN | 50000 | NOSTEXT | 64/21 | 124/35 | 283/35 | 284/54 | 317/09 | | | |
| 15 | | | | 90/29 | 196/55 | 284/07 | 299/14 | | | | |
| 16 | ACLS | 3 | | 261/26 | | | | | | | |
| 17 | ACLW | 77 | NOSTEXT | 120/14 | 129/53 | 180/37 | 187/57 | 297/11 | | | |
| 18 | | | | 120/22 | 131/55 | 180/42 | 296/57 | | | | |
| 19 | ACSS | 7202 | | 48/36 | 57/29 | 59/34 | | | | | |
| 20 | ACTM | 25 | NOSTEXT | 52/17 | 91/21 | 196/52 | 284/51 | 290/12 | 290/56 | | |
| 21 | ACTR | 64 | | 9/29 D | 155/09 | 155/18 | 155/20 | 190/34 | | | |
| 22 | ACTW | 51 | NOSTEXT | 129/31 | 130/01 | 131/33 | 132/03 | 289/47 | 289/57 | | |
| 23 | ACTWL | 4 | NOSTEXT | 289/44 | | | | | | | |
| 24 | AC1W | 101 | NOSTEXT | 290/50 | | | | | | | |
| 25 | AC1WL | 2 | NOSTEXT | 290/47 | | | | | | | |
| 26 | ADAW | 54 | NOSTEXT | 282/21 | 282/23 | | | | | | |
| 27 | ADCI | 2100 | | 206/18 | 206/21 | | | | | | |
| 28 | ADJ | 1155 | | 16/32 | 18/17 L | 20/44 | | | | | |
| 29 | ADJA | 1212 | | 18/43 D | 127/33 S | | | | | | |
| 30 | ADJB | 1222 | | 18/54 D | 31/31 S | 34/26 | 61/37 S | 112/01 S | | | |
| 31 | ADJC | 1226 | | 19/03 D | 30/57 S | | | | | | |
| 32 | ADJ1 | 1163 | | 18/19 | 18/26 L | | | | | | |
| 33 | ADJ2 | 1212 | | 18/37 | 18/41 L | | | | | | |
| 34 | ADJ3 | 1221 | | 18/30 | 18/52 L | | | | | | |
| 35 | ADJ4 | 1224 | | 18/56 L | 19/20 | | | | | | |
| 36 | ADJ5 | 1226 | | 18/48 | 18/55 | 19/01 L | | | | | |
| 37 | ADJ5.1 | 1234 | | 19/06 | 19/09 L | | | | | | |
| 38 | ADJ6 | 1253 | | 19/04 | 19/08 | 19/12 | 19/14 | 19/17 | 19/21 L | | |
| 39 | ADSR | 0 | | 45/34 | | | | | | | |
| 40 | AFFL | 40 | NOSTEXT | 41/25 | | | | | | | |
| 41 | AHMT | 7 | | 51/15 | 51/30 | 53/49 | 54/17 | | | | |
| 42 | AISS | 20 | | 188/04 | 224/48 | | | | | | |
| 43 | AJS | 1100 | | 5/01 | 15/14 L | | | | | | |
| 44 | ALMS | 2 | | 251/43 | 261/03 S | 261/23 | | | | | |
| 45 | ALMW | 76 | NOSTEXT | 54/49 | 251/42 | 261/02 | 261/04 | 261/34 | 296/45 | 296/55 | 296/57 |
| 46 | APRN | 1 | | 55/34 | | | | | | | |
| 47 | ARET | 3 | NOSTEXT | 88/10 | 103/08 | 104/08 | 138/12 | 140/31 | | | |
| 48 | | | | 88/10 | 103/08 | 104/08 | 140/31 | | | | |
| 49 | ARGR | 2 | | 9/29 D | 155/31 | 155/35 | 158/25 | 159/02 | 159/14 | 193/22 | 323/15 |
| 50 | ASCV | 12 | | 42/43 | | | | | | | |
| 51 | ASSI | 7753 | | 121/35 | | | | | | | |
| 52 | AST | 2075 | | 38/38 | | | | | | | |
| 53 | ASVW | 6 | | 55/23 S | 55/27 S | 55/29 | | | | | |
| 54 | BCIE | 7 | | 49/30 | 49/40 | 49/40 | 50/13 | 50/13 | | | |

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| | | | 68/47 | 213/52 | 217/13 | 223/26 | 239/45 | 266/29 | 299/46 |
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| | | | 195/05 | 214/38 | 217/24 | 223/38 | 239/56 | 272/43 | 319/04 |
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| CCPT | 1 | | 86/20 | 86/22 | | | | | |
| CCTS | 3 | | 265/25 | | | | | | |
| CDOS | 14 | | 187/56 | | | | | | |
| CEFM | 54 | NOSTEXT | 32/33 | 37/38 | 119/14 | 146/42 | 277/43 | | |
| | | | 35/46 | 106/13 | 127/40 | 187/50 | 323/35 | | |
| CFIR | 1 | | 173/40 | | | | | | |
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| CHGM | 21 | NOSTEXT | 26/46 | 33/38 | 47/26 | 59/47 | 118/56 | 174/36 | |
| CHGN | 25 | NOSTEXT | 73/17 | | | | | | |
| CHRV | 111 | | 73/44 S | 239/40 | 239/43 S | | | | |
| CHSC | 16 | NOSTEXT | 84/01 | 84/02 | 84/08 | 84/09 | | | |
| CHTP | 141 | NOSTEXT | 310/44 | | | | | | |
| CICS | 10 | | 129/52 | 131/54 | | | | | |
| CIOS | 12 | | 129/57 | 132/02 | 188/10 | | | | |
| CJES | 4 | | 28/10 | | | | | | |
| CJS | 2632 | | 30/42 | 34/51 D | | | | | |
| CJSA | 2715 | | 35/25 S | 35/44 D | | | | | |
| CJSX | 2631 | | 34/51 L | 35/16 | 35/19 | 35/21 | 35/40 | | |
| CJS1 | 2675 | | 35/23 | 35/26 L | | | | | |
| CJS2 | 2706 | | 35/33 | 35/37 L | | | | | |
| CJS3 | 2713 | | 35/40 L | 35/47 | | | | | |
| CJS4 | 2715 | | 35/35 | 35/42 L | | | | | |
| CJS5 | 2625 | | 34/48 L | 34/49 | 35/03 | | | | |
| CKPS | 26 | | 28/19 | | | | | | |
| CKSM | 30 | NOSTEXT | 95/54 | 139/33 | | | | | |
| CLET | 13 | NOSTEXT | 88/14 | 88/14 | 187/48 | | | | |

| CM | 10 | NOSTEXT | 17/20 S | 55/10 S | 95/08 | 123/06 S | 164/24 | 208/48 S | 254/42 S | 293/51 S |
|----|----|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| | | | 17/26 | 55/12 S | 95/10 | 123/09 | 165/48 S | 208/50 S | 254/45 | 294/03 S |
| | | | 18/34 S | 55/15 S | 95/32 S | 125/20 S | 166/03 | 208/51 S | 254/48 S | 294/04 |
| | | | 18/35 | 55/17 | 95/42 S | 125/21 | 166/08 S | 208/54 | 254/49 | 294/08 S |
| | | | 19/10 S | 55/32 S | 95/47 S | 125/24 S | 166/10 S | 209/04 S | 254/55 S | 294/11 |
| | | | 19/11 | 55/36 S | 95/49 S | 125/27 | 166/27 | 209/06 S | 255/01 | 294/12 |
| | | | 19/15 | 55/38 | 95/51 S | 125/30 S | 166/46 S | 209/10 | 255/15 | 294/46 S |
| | | | 20/20 S | 55/40 S | 96/18 | 125/31 | 166/47 | 212/25 | 255/22 S | 294/47 |
| | | | 20/33 | 55/45 | 96/49 S | 125/34 S | 166/50 | 212/31 S | 255/24 S | 295/18 |
| | | | 21/37 | 55/47 | 96/50 | 125/37 | 166/53 | 212/32 | 256/05 S | 295/34 S |
| | | | 21/42 S | 55/49 | 97/09 S | 125/39 S | 167/25 S | 212/43 S | 256/06 | 295/35 |
| | | | 21/43 | 56/13 S | 97/11 S | 125/40 | 167/27 | 212/44 | 256/32 | 296/46 S |
| | | | 22/23 S | 56/17 | 97/15 | 125/42 S | 167/46 S | 212/50 S | 257/08 S | 296/47 |
| | | | 22/25 S | 56/20 S | 97/35 S | 125/45 | 167/47 | 212/53 | 257/09 | 296/50 S |
| | | | 22/27 S | 56/21 | 97/47 S | 126/30 S | 167/49 S | 214/29 S | 257/11 S | 296/52 S |
| | | | 22/38 S | 56/24 S | 97/49 S | 126/37 | 167/51 | 214/37 | 257/14 | 296/53 S |
| | | | 23/26 S | 56/25 | 97/51 | 126/40 | 167/55 S | 214/39 S | 257/50 S | 296/56 |
| | | | 24/41 S | 56/27 | 97/54 S | 127/15 S | 167/56 | 214/47 | 258/16 | 297/01 S |
| | | | 24/42 | 56/28 S | 97/55 | 127/16 | 168/01 S | 214/49 | 258/18 | 297/03 S |
| | | | 24/45 S | 56/57 S | 97/57 S | 127/20 S | 168/03 | 214/54 S | 258/27 S | 297/04 S |
| | | | 24/48 | 57/04 S | 98/03 | 127/22 | 168/09 S | 214/55 | 258/28 | 297/05 S |
| | | | 25/15 S | 57/07 | 98/47 S | 127/39 S | 168/11 S | 215/01 | 258/31 S | 297/06 |
| | | | 25/17 | 57/22 S | 99/11 | 127/49 S | 168/14 | 215/04 | 258/34 | 297/09 S |
| | | | 26/03 S | 57/24 S | 99/14 | 127/50 | 169/43 S | 215/07 | 258/40 S | 297/12 |
| | | | 26/04 | 57/27 | 99/17 | 129/32 S | 170/16 S | 215/12 S | 258/41 | 297/35 S |
| | | | 26/38 S | 57/40 S | 99/21 | 129/33 | 170/17 | 215/39 S | 258/44 S | 297/38 S |
| | | | 26/39 | 57/41 | 99/25 S | 129/37 S | 171/21 S | 215/41 S | 258/47 | 297/49 S |
| | | | 26/43 S | 57/49 S | 99/35 | 129/39 S | 171/22 | 215/42 S | 259/21 S | 297/51 S |
| | | | 26/45 S | 57/52 S | 100/19 S | 129/41 | 171/27 S | 215/43 | 259/25 S | 297/53 |
| | | | 27/14 S | 57/57 S | 100/22 | 130/22 S | 171/29 | 215/45 S | 259/30 S | 299/02 S |
| | | | 27/15 | 58/03 | 100/46 | 130/24 | 171/33 | 215/46 | 259/32 S | 299/03 |
| | | | 27/18 S | 59/01 S | 101/12 S | 130/29 S | 172/23 S | 215/48 S | 259/42 S | 300/19 S |
| | | | 27/21 | 59/03 S | 101/14 | 130/30 | 172/29 | 215/51 | 259/44 S | 300/20 |
| | | | 28/11 S | 59/07 S | 101/16 S | 130/44 S | 173/18 S | 215/53 S | 259/50 S | 300/23 S |
| | | | 28/20 S | 59/10 | 101/19 | 130/46 S | 173/21 | 215/54 | 259/54 S | 300/26 |
| | | | 28/41 S | 59/13 | 101/44 S | 131/34 S | 173/30 S | 215/57 S | 260/01 | 300/31 S |
| | | | 28/44 | 59/44 S | 101/51 S | 131/35 | 173/36 S | 216/03 | 260/05 S | 300/33 S |
| | | | 30/45 S | 59/46 S | 102/21 S | 131/43 S | 173/39 S | 216/05 S | 260/06 S | 300/36 |
| | | | 31/01 | 59/51 S | 102/22 | 131/45 S | 173/41 S | 216/07 S | 260/08 S | 300/43 S |
| | | | 31/04 | 59/55 | 102/24 S | 131/47 | 173/45 | 216/08 | 260/39 S | 300/50 |
| | | | 31/08 | 59/57 | 102/27 | 132/21 S | 174/33 S | 216/10 S | 260/48 | 300/51 S |
| | | | 31/38 S | 63/33 S | 102/29 S | 132/24 | 174/35 S | 216/13 | 260/51 | 300/56 |
| | | | 33/07 S | 63/35 S | 102/30 | 132/37 S | 180/05 S | 221/48 S | 262/51 S | 304/33 S |
| | | | 33/11 | 63/37 S | 105/30 S | 132/48 | 180/06 | 221/49 | 262/51 | 304/34 S |
| | | | 33/16 | 63/38 | 105/33 S | 132/52 S | 180/08 S | 221/51 | 262/51 | 306/22 S |
| | | | 33/35 S | 63/41 | 105/35 S | 133/23 S | 180/11 | 221/54 S | 262/51 S | 306/28 S |
| | | | 33/37 S | 63/44 S | 105/37 | 133/25 S | 180/38 S | 221/55 | 262/51 | 306/44 S |
| | | | 34/11 S | 63/50 S | 105/53 | 133/27 S | 180/40 S | 223/50 S | 262/51 | 306/46 S |
| | | | 34/14 | 63/54 S | 105/53 | 133/29 S | 180/43 | 223/54 S | 262/51 S | 306/48 S |
| | | | 34/22 | 63/55 | 105/56 S | 133/55 S | 181/54 | 223/57 S | 262/51 | 307/40 S |
| | | | 35/01 S | 64/03 S | 106/02 | 133/56 | 183/43 S | 224/10 | 262/51 | 307/42 S |
| | | | 35/02 | 64/05 S | 106/04 | 133/57 | 183/44 | 224/13 | 265/04 S | 308/23 S |
| | | | 35/07 S | 64/07 S | 106/12 S | 134/04 | 183/48 S | 224/42 S | 265/07 | 308/42 S |
| | | | 35/08 | 64/10 S | 106/15 S | 134/07 | 183/51 | 224/43 S | 265/24 S | 308/43 |
| | | | 35/12 | 64/11 | 106/44 | 134/13 | 185/21 S | 225/25 S | 265/26 S | 308/46 S |
| | | | 35/27 S | 64/16 S | 106/46 S | 134/15 | 185/22 | 225/26 | 265/34 S | 308/48 S |
| | | | 35/38 S | 64/17 | 106/48 | 134/36 S | 185/25 | 225/31 S | 265/56 | 308/49 S |

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|----|---------|---------|----------|----------|----------|----------|----------|----------|
| | 35/45 S | 65/27 S | 106/55 | 134/37 | 185/53 S | 225/32 | 267/40 S | 308/52 |
| | 36/18 S | 65/29 S | 106/55 | 134/40 | 186/07 | 225/38 S | 267/44 S | 308/54 S |
| | 36/19 | 65/31 S | 107/57 | 134/44 | 186/20 S | 225/39 | 267/46 S | 308/56 |
| 1 | 36/20 | 65/33 S | 108/02 | 135/11 S | 186/21 | 225/41 S | 267/56 | 309/02 |
| 2 | 36/21 | 65/34 | 109/27 S | 135/12 | 186/34 S | 225/44 | 268/08 S | 309/04 |
| 3 | 36/22 | 65/37 | 109/30 S | 135/14 S | 186/34 | 226/34 S | 268/09 | 309/07 S |
| 4 | 36/23 | 65/40 | 109/31 S | 135/17 | 186/34 S | 226/35 | 268/18 S | 309/35 S |
| 5 | 37/33 | 66/40 S | 109/33 | 137/24 S | 186/34 | 226/41 S | 268/24 | 309/41 |
| 6 | 37/36 S | 68/04 S | 109/56 S | 137/26 S | 186/34 | 226/42 | 268/26 | 309/44 S |
| 7 | 37/42 | 68/05 | 110/04 | 137/28 S | 186/34 S | 226/45 S | 268/37 | 310/14 S |
| 8 | 37/50 S | 68/07 S | 110/06 S | 137/30 | 186/34 | 226/54 S | 268/41 | 310/15 |
| 9 | 37/51 | 68/09 S | 110/08 S | 137/32 S | 186/53 | 227/40 | 268/44 | 310/26 S |
| 10 | 37/55 S | 69/11 S | 110/10 S | 137/36 | 186/53 | 228/14 S | 268/45 S | 310/33 S |
| 11 | 37/57 S | 69/12 | 110/12 | 138/06 S | 186/57 S | 228/15 | 268/47 | 310/45 S |
| 12 | 38/02 | 69/20 S | 110/39 S | 138/07 | 187/02 S | 228/20 S | 268/48 S | 310/48 |
| 13 | 38/34 S | 69/28 | 110/40 | 138/10 S | 187/04 | 228/26 S | 268/50 S | 310/50 |
| 14 | 38/35 | 70/35 S | 110/49 S | 138/18 S | 187/39 S | 228/29 | 268/51 S | 311/02 S |
| 15 | 38/50 S | 70/37 S | 110/53 S | 138/22 S | 187/41 S | 228/36 S | 268/52 S | 311/04 S |
| 16 | 38/50 | 70/39 S | 110/54 | 138/25 | 187/43 | 228/41 | 269/03 | 311/07 S |
| 17 | 38/50 | 70/44 S | 111/05 S | 139/09 S | 187/45 | 228/44 | 272/08 S | 311/10 S |
| 18 | 38/50 S | 70/46 S | 111/06 | 139/11 S | 187/49 S | 228/47 | 272/09 | 311/22 S |
| 19 | 38/50 | 70/51 | 111/20 S | 139/24 | 188/39 S | 228/49 | 272/11 S | 311/24 S |
| 20 | 38/50 | 70/56 S | 111/45 S | 139/26 S | 188/40 | 231/20 S | 272/13 | 311/27 |
| 21 | 38/50 S | 71/03 S | 111/53 | 139/28 | 191/03 S | 231/27 S | 272/27 S | 312/10 S |
| 22 | 38/50 | 71/08 S | 111/55 S | 139/29 S | 191/05 | 231/28 | 272/28 | 312/12 S |
| 23 | 38/50 | 71/16 | 111/57 S | 139/34 | 192/53 S | 231/31 S | 274/08 S | 312/14 S |
| 24 | 39/05 S | 71/24 S | 112/06 | 140/07 S | 193/01 S | 231/33 | 274/09 | 312/45 S |
| 25 | 39/05 | 71/26 S | 112/21 S | 140/15 | 193/02 | 232/50 S | 274/11 S | 312/46 |
| 26 | 39/05 S | 71/28 S | 112/23 S | 145/39 S | 193/08 S | 232/52 S | 274/13 | 313/23 S |
| 27 | 39/05 | 71/30 S | 113/17 S | 146/33 S | 193/09 S | 232/55 S | 275/47 S | 313/24 |
| 28 | 39/05 | 71/36 S | 113/19 | 146/41 S | 193/19 S | 232/57 S | 275/48 | 314/19 |
| 29 | 39/05 S | 71/41 S | 113/24 S | 146/52 S | 193/23 | 233/04 | 276/34 S | 314/22 S |
| 30 | 39/05 | 71/45 | 113/26 | 147/18 S | 193/27 S | 234/51 S | 276/35 | 314/40 |
| 31 | 42/45 S | 73/54 S | 114/35 S | 148/20 S | 193/28 S | 235/15 S | 276/37 S | 314/42 |
| 32 | 42/47 S | 73/54 | 114/49 | 148/21 | 193/38 S | 235/21 | 276/39 | 314/46 |
| 33 | 42/48 S | 73/54 S | 115/01 | 149/29 S | 193/39 S | 235/23 | 277/36 S | 315/21 S |
| 34 | 42/50 | 73/54 | 115/03 S | 149/30 | 193/53 S | 235/25 | 277/42 S | 315/23 |
| 35 | 43/36 S | 73/54 | 115/08 | 149/43 S | 193/54 | 236/56 S | 282/13 S | 315/25 S |
| 36 | 43/37 | 73/54 S | 115/28 S | 149/44 | 195/53 S | 237/01 S | 282/16 | 315/27 S |
| 37 | 43/41 S | 73/54 | 115/29 | 149/46 S | 195/57 | 237/03 S | 282/18 | 316/10 S |
| 38 | 43/43 S | 81/19 S | 115/32 S | 149/49 | 196/05 | 237/06 | 282/20 | 316/11 |
| 39 | 47/23 S | 81/20 | 115/35 | 150/41 S | 196/42 S | 237/10 S | 282/22 | 316/13 |
| 40 | 47/25 S | 81/23 | 115/38 S | 150/44 | 196/49 | 237/16 S | 284/32 | 316/25 S |
| 41 | 47/28 S | 82/01 S | 115/39 | 151/52 S | 196/51 S | 237/28 | 284/34 S | 316/28 |
| 42 | 47/48 S | 82/02 | 115/44 S | 151/53 | 197/31 | 238/18 S | 284/37 | 316/29 |
| 43 | 47/50 S | 82/04 | 115/50 | 151/55 S | 197/56 S | 238/19 | 284/41 S | 316/37 S |
| 44 | 47/55 | 82/07 | 116/15 S | 152/21 | 198/02 | 244/23 S | 284/48 | 316/43 |
| 45 | 48/21 S | 82/15 | 116/17 | 152/23 | 198/54 S | 244/24 | 284/50 S | 316/44 |
| 46 | 48/22 | 82/15 | 116/22 S | 152/32 | 198/57 S | 244/25 | 285/32 S | 316/49 S |
| 47 | 48/24 | 82/25 S | 116/24 | 153/25 S | 199/02 | 246/34 S | 285/33 | 316/50 |
| 48 | 49/02 | 82/27 S | 118/33 S | 153/29 | 199/04 S | 246/41 S | 285/35 S | 317/32 S |
| 49 | 49/05 | 82/41 S | 118/34 | 153/31 | 199/08 S | 246/44 S | 285/46 | 318/43 S |
| 50 | 49/10 | 83/49 S | 118/47 S | 154/15 S | 199/08 | 248/23 S | 285/51 S | 318/43 |
| 51 | 49/13 | 83/50 | 118/48 | 154/19 | 199/08 | 248/24 | 285/53 | 318/43 S |
| 52 | 51/01 S | 84/14 S | 118/53 S | 154/47 | 199/08 S | 248/26 S | 286/27 S | 318/43 |
| 53 | 51/05 S | 84/15 | 118/55 S | 154/50 | 199/08 | 248/27 | 286/28 | 318/43 |
| 54 | 51/11 | 85/34 S | 119/13 S | 156/01 S | 199/08 | 249/04 S | 286/45 S | 318/43 S |
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| | | | 52/16 S | 85/35 | 119/40 S | 156/04 | 199/08 S | 249/04 | 286/46 | 318/43 | |
| | | | 52/34 S | 86/35 S | 119/43 S | 156/07 | 199/08 | 249/04 | 287/08 S | 320/17 S | |
| | | | 52/36 S | 86/36 | 119/46 | 156/52 S | 199/08 | 249/04 S | 287/15 | 320/28 | |
| 1 | | | 52/37 S | 86/38 S | 120/15 S | 156/55 | 200/35 S | 249/04 | 287/17 | 320/33 S | 1 |
| 2 | | | 52/39 | 86/41 | 120/16 | 157/03 S | 200/45 S | 249/04 | 287/27 S | 320/35 | 2 |
| 3 | | | 52/44 S | 90/53 S | 120/19 S | 157/05 | 200/47 | 249/04 S | 287/28 | 320/38 S | 3 |
| 4 | | | 52/51 S | 91/13 | 120/23 | 158/22 S | 205/35 S | 249/04 | 287/32 | 320/39 | 4 |
| 5 | | | 52/53 | 91/18 S | 120/51 S | 158/27 | 205/36 | 249/04 | 289/29 S | 323/05 S | 5 |
| 6 | | | 52/55 | 91/20 S | 120/52 | 159/11 S | 205/42 | 250/54 | 289/30 | 323/10 | 6 |
| 7 | | | 52/56 S | 91/23 S | 121/01 S | 159/15 | 205/51 | 251/54 S | 289/39 S | 323/16 | 7 |
| 8 | | | 53/06 S | 91/24 | 121/03 | 161/34 S | 205/55 | 252/14 | 289/40 | 323/19 S | 8 |
| 9 | | | 53/09 | 91/35 S | 121/19 S | 161/41 S | 206/24 | 252/16 | 290/11 S | 323/20 | 9 |
| 10 | | | 53/14 | 92/18 S | 121/25 | 161/44 S | 206/26 | 252/43 S | 290/21 S | 323/22 | 10 |
| 11 | | | 53/18 S | 92/21 | 122/14 S | 161/46 S | 206/31 | 252/44 | 290/22 | 323/34 S | 11 |
| 12 | | | 53/19 | 92/23 S | 122/20 | 161/48 S | 207/16 | 253/29 S | 290/24 | | 12 |
| 13 | | | 53/27 S | 92/24 | 122/23 | 163/53 S | 208/02 | 253/32 | 290/26 | | 13 |
| 14 | | | 53/28 | 92/30 S | 122/29 | 163/55 S | 208/04 S | 254/28 S | 290/29 | | 14 |
| 15 | | | 53/34 S | 92/31 | 122/50 | 163/56 | 208/33 S | 254/29 | 290/36 S | | 15 |
| 16 | | | 53/35 | 92/34 | 122/53 | 164/01 S | 208/35 S | 254/33 S | 290/38 S | | 16 |
| 17 | | | 55/02 S | 92/36 | 123/03 S | 164/03 | 208/38 | 254/35 S | 290/55 S | | 17 |
| 18 | | | 55/07 S | 94/51 S | 123/04 | 164/23 S | 208/40 | 254/38 | 292/34 S | | 18 |
| 19 | CMSS | 7165 | 63/49 | | | | | | | | 19 |
| 20 | CMUR | 65 | 9/29 D | | | | | | | | 20 |
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| CN | 25 | 14/07 D | 70/36 | 108/31 | 156/36 | 184/53 S | 224/14 S | 251/31 | 269/07 S |
| | | 20/22 S | 70/40 | 108/34 | 156/39 S | 185/02 S | 224/19 | 251/35 S | 269/13 |
| | | 20/23 | 70/42 | 108/37 | 156/42 | 185/05 | 224/21 | 252/22 S | 293/52 |
| | | 20/51 | 70/43 | 108/48 | 157/13 S | 189/49 S | 225/49 | 252/23 | 294/24 S |
| | | 21/11 | 70/49 | 108/51 | 157/14 | 189/50 | 225/51 | 253/31 S | 294/26 S |
| | | 21/29 | 70/57 S | 108/54 | 165/46 S | 193/45 S | 225/55 | 253/35 | 294/28 S |
| | | 21/32 | 71/11 S | 108/57 | 166/11 | 193/47 | 225/57 | 253/42 S | 294/31 |
| | | 21/55 | 71/13 S | 114/20 S | 166/13 S | 195/22 S | 226/39 S | 253/53 | 294/41 S |
| | | 21/57 | 71/18 | 114/25 S | 166/14 | 195/26 | 226/47 S | 253/54 S | 295/24 |
| | | 30/47 S | 71/37 S | 114/29 | 166/18 S | 195/29 | 226/50 S | 253/55 | 297/31 S |
| | | 31/11 | 71/39 S | 115/04 | 166/21 | 195/31 S | 226/52 S | 253/56 S | 297/40 |
| | | 31/26 S | 71/43 | 119/20 S | 166/25 S | 195/33 | 227/02 S | 255/06 | 297/44 |
| | | 31/27 | 82/16 S | 119/41 | 166/38 S | 195/40 | 227/04 S | 255/09 | 300/41 S |
| | | 31/29 | 82/19 | 119/50 | 166/39 S | 195/42 | 227/05 S | 256/03 S | 301/02 |
| | | 33/05 S | 82/21 | 119/52 S | 166/40 S | 195/54 | 227/06 | 256/16 | 306/17 S |
| | | 33/08 | 82/54 | 119/55 | 166/43 | 196/02 | 227/06 | 256/19 | 306/38 |
| | | 34/13 S | 82/57 | 126/11 S | 167/06 S | 197/35 S | 227/23 S | 256/21 | 306/40 |
| | | 34/19 | 83/03 | 126/13 | 167/11 | 207/24 S | 227/25 S | 257/54 S | 306/42 S |
| | | 34/56 S | 83/06 | 126/17 | 167/14 | 207/35 | 227/26 | 258/01 | 306/45 |
| | | 35/17 | 85/02 S | 126/20 | 167/17 | 207/37 | 227/29 S | 258/03 S | 306/51 S |
| | | 37/30 S | 85/03 | 127/56 | 167/19 S | 208/15 S | 227/36 | 258/05 S | 306/54 |
| | | 37/31 | 85/06 | 128/10 | 172/25 S | 208/20 S | 227/49 S | 258/06 | 307/16 |
| | | 52/48 S | 94/53 S | 128/14 | 172/26 | 208/22 S | 227/50 | 258/08 S | 308/39 S |
| | | 54/20 S | 95/13 | 128/17 | 172/35 S | 208/23 | 227/53 | 258/10 | 308/55 |
| | | 54/21 S | 95/15 S | 128/21 | 172/41 | 208/25 S | 227/56 | 258/12 S | 309/33 S |
| | | 54/25 S | 95/17 | 128/32 | 173/20 S | 208/29 | 228/01 | 258/52 | 309/36 |
| | | 54/26 S | 95/27 | 130/32 | 173/23 S | 208/31 | 228/18 | 260/35 S | 309/38 |
| | | 54/46 | 95/30 | 130/36 | 173/25 S | 208/37 S | 228/21 | 260/40 | 309/40 |
| | | 55/05 S | 95/41 | 130/39 | 173/28 | 208/39 S | 228/24 | 260/44 | 310/31 S |
| | | 55/06 | 95/45 | 139/04 S | 178/12 | 208/41 S | 238/22 S | 261/05 S | 310/32 |
| | | 55/09 | 95/48 | 139/32 | 178/57 S | 208/43 | 238/23 | 261/15 | 312/03 S |
| | | 55/11 | 95/50 | 151/03 S | 179/02 | 222/55 | 238/49 | 261/31 S | 312/04 |
| | | 55/14 | 98/24 S | 151/11 | 179/09 | 222/57 | 238/49 | 261/38 | 312/11 |
| | | 61/17 S | 98/27 | 151/13 | 180/22 S | 223/04 S | 238/53 S | 267/36 S | 313/04 S |
| | | 61/21 S | 98/28 | 154/13 S | 180/23 | 223/05 S | 238/55 S | 267/37 | 313/06 S |
| | | 61/23 S | 98/30 | 154/14 | 180/25 | 223/07 S | 240/19 S | 267/41 | 313/09 |
| | | 61/24 S | 99/41 | 154/35 S | 180/26 S | 223/08 S | 240/22 S | 267/48 S | 313/31 |
| | | 61/27 S | 105/38 | 154/37 | 180/28 S | 223/16 | 240/24 S | 267/49 | 314/24 S |
| | | 62/18 | 105/40 S | 154/41 S | 180/29 | 223/18 | 240/47 | 267/51 S | 314/25 |
| | | 70/13 S | 105/46 | 154/43 | 180/32 S | 223/25 | 240/49 | 267/54 | 314/27 |
| | | 70/20 S | 105/49 S | 156/21 S | 180/35 | 223/25 | 247/07 S | 268/20 S | 314/47 S |
| | | 70/27 S | 105/50 | 156/26 | 184/35 S | 223/29 S | 247/08 | 268/21 | 314/54 |
| | | 70/29 S | 105/52 S | 156/28 S | 184/42 S | 223/31 S | 247/10 S | 268/23 | 320/20 S |
| | | 70/32 S | 105/54 | 156/30 | 184/43 S | 223/49 | 251/14 S | 269/01 S | 320/25 |
| | | 70/33 | 106/56 S | 156/33 S | 184/51 | 224/12 S | 251/17 | 269/04 | |
| | CNSS | 7122 | 49/08 | | | | | | |

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|----|-------|---------|---------|--------|----------|---------|----------|---------|--------|--------|--------|
| CP | 74 | NOSTEXT | 17/24 | 58/01 | 110/37 | 133/53 | 166/41 | 197/33 | 256/35 | 296/54 | |
| | | | 18/32 | 58/56 | 110/51 | 134/35 | 166/44 | 206/57 | 257/01 | 297/10 | |
| | | | 20/18 | 59/08 | 111/03 | 135/09 | 167/52 | 207/06 | 257/48 | 298/36 | |
| | | | 21/40 | 59/32 | 111/16 | 135/15 | 168/07 | 208/36 | 258/25 | 298/55 | |
| | | | 22/13 | 62/14 | 111/41 | 136/42 | 168/12 | 208/42 | 258/32 | 299/02 | |
| | | | 22/26 | 69/11 | 112/02 | 137/23 | 170/14 | 212/41 | 258/38 | 300/17 | |
| | | | 24/39 | 69/27 | 112/39 | 137/29 | 171/25 | 212/51 | 258/45 | 300/24 | |
| | | | 24/46 | 70/47 | 112/47 | 138/02 | 172/21 | 215/37 | 260/33 | 300/34 | |
| | | | 26/01 | 71/14 | 113/15 | 139/55 | 173/16 | 215/49 | 260/56 | 300/54 | |
| | | | 26/36 | 73/02 | 115/26 | 146/23 | 173/26 | 216/01 | 261/29 | 306/15 | |
| | | | 27/12 | 84/12 | 115/33 | 146/43 | 178/55 | 216/11 | 264/42 | 306/32 | |
| | | | 27/19 | 84/45 | 115/36 | 146/56 | 179/17 | 225/29 | 267/34 | 306/52 | |
| | | | 28/42 | 86/33 | 115/48 | 148/18 | 179/23 | 225/36 | 267/52 | 308/40 | |
| | | | 30/43 | 86/39 | 116/13 | 149/41 | 179/33 | 225/42 | 272/05 | 308/50 | |
| | | | 31/24 | 90/51 | 118/31 | 149/47 | 180/15 | 228/12 | 274/05 | 310/12 | |
| | | | 31/39 | 92/16 | 118/47 | 150/42 | 180/36 | 228/27 | 275/08 | 311/08 | |
| | | | 32/10 | 92/28 | 119/18 | 151/50 | 180/41 | 248/21 | 275/13 | 311/20 | |
| | | | 32/21 | 94/16 | 119/31 | 154/33 | 183/41 | 250/46 | 276/31 | 311/25 | |
| | | | 34/09 | 96/45 | 119/53 | 155/26 | 183/49 | 251/06 | 282/14 | 312/43 | |
| | | | 34/52 | 97/34 | 120/13 | 156/17 | 184/31 | 251/41 | 282/49 | 313/21 | |
| | | | 36/12 | 97/50 | 120/21 | 156/31 | 184/47 | 251/50 | 284/35 | 316/49 | |
| | | | 36/55 | 97/52 | 121/17 | 156/40 | 184/54 | 252/02 | 285/28 | 318/13 | |
| | | | 37/48 | 98/01 | 122/12 | 156/47 | 185/03 | 252/20 | 285/42 | 318/30 | |
| | | | 38/32 | 98/25 | 123/07 | 160/24 | 185/19 | 252/31 | 289/27 | 320/15 | |
| | | | 48/34 | 98/34 | 125/28 | 160/46 | 186/18 | 252/41 | 289/37 | 322/49 | |
| | | | 52/10 | 101/10 | 125/35 | 160/57 | 188/53 | 253/40 | 289/46 | 323/28 | |
| | | | 52/54 | 101/17 | 125/43 | 161/09 | 189/47 | 253/50 | 290/49 | 324/12 | |
| | | | 54/34 | 101/37 | 126/28 | 163/50 | 190/48 | 253/57 | 293/49 | | |
| | | | 55/30 | 102/19 | 126/34 | 164/21 | 191/51 | 254/28 | 294/01 | | |
| | | | 57/05 | 102/25 | 127/29 | 165/44 | 193/44 | 254/40 | 294/09 | | |
| | | | 57/20 | 105/21 | 129/30 | 165/57 | 195/51 | 254/56 | 295/32 | | |
| | | | 57/25 | 109/25 | 131/32 | 166/19 | 196/36 | 256/01 | 296/44 | | |
| | CPET | 7 | NOSTEXT | 103/09 | 103/09 | 104/09 | 104/09 | 137/12 | 137/14 | 140/33 | 140/33 |
| | CPJW | 61 | NOSTEXT | 54/38 | 54/39 | 196/41 | 260/38 | 284/40 | | | |
| | CPLW | 120 | NOSTEXT | 73/09 | | | | | | | |
| | CPON | 30000 | NOSTEXT | 64/23 | 209/57 | 284/04 | 324/21 | | | | |
| | CPP | 1255 | | 19/34 | L 24/50 | 255/29 | | | | | |
| | CPRS | 0 | | 259/43 | | | | | | | |
| | CPTW | 52 | NOSTEXT | 193/10 | 196/39 | 196/41 | 282/17 | 282/19 | 284/38 | 284/40 | |
| | CPUS | 1 | | 43/40 | 43/42 | | | | | | |
| | CRIE | 2 | | 49/30 | 49/35 | 49/35 | | | | | |
| | CRPT | 2 | | 86/24 | | | | | | | |
| | CRQF | 1251 | | 19/19 | D 31/35 | S 62/09 | S 112/46 | S | | | |
| | CRSS | 7123 | | 63/34 | 63/36 | | | | | | |
| | CSBN | 205 | NOSTEXT | 45/04 | 45/04 | 45/12 | 45/12 | 61/31 | 285/38 | 308/47 | |
| | CSFS | 100 | | 255/34 | | | | | | | |
| | CSMR | 67 | | 9/29 | D | | | | | | |
| | CSPW | 73 | NOSTEXT | 30/52 | 73/09 | 112/05 | 146/57 | 197/40 | 285/29 | 308/41 | 323/29 |
| | | | | 62/15 | 111/42 | 112/40 | 156/34 | 197/42 | 285/31 | 308/51 | |
| | | | | 62/17 | 111/44 | 112/48 | 188/11 | 282/23 | 285/43 | 308/53 | |
| | | | | 73/07 | 112/03 | 146/44 | 190/49 | 282/50 | 285/45 | 322/50 | |
| | CSR | 1270 | | 20/17 | L 33/51 | 33/53 | | | | | |
| | CSRA | 1526 | | 21/49 | S 22/33 | L | | | | | |
| | CSRB | 1551 | | 22/29 | 22/50 | L | | | | | |
| | CSRC | 1357 | | 21/01 | L 32/42 | S | | | | | |
| | CSR1 | 1326 | | 20/27 | 20/32 | 20/35 | 20/39 | L 20/55 | 22/36 | | |
| | CSR10 | 1470 | | 22/06 | L 253/38 | | | | | | |

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|-------|------|---------|----------|----------|----------|----------|----------|--------|----------|--------|
| DFM | 423 | NOSTEXT | 22/10 | 66/45 | 96/21 | 126/56 | 131/50 | 140/18 | 193/15 | 284/08 |
| | | | 47/40 | 84/37 | 110/57 | 128/06 | 132/54 | 140/20 | 196/56 | 284/55 |
| | | | 64/22 | 87/10 | 120/32 | 129/44 | 132/56 | 146/37 | 209/54 | 299/15 |
| | | | 64/24 | 89/20 | 124/36 | 129/48 | 134/48 | 169/04 | 210/02 | 317/28 |
| | | | 64/55 | 90/30 | 125/17 | 130/48 | 136/35 | 169/10 | 283/37 | 323/32 |
| | | | 65/04 | 91/33 | 126/25 | 131/39 | 139/37 | 178/25 | 284/05 | 324/23 |
| DILL | 13 | NOSTEXT | 238/21 | | | | | | | |
| DLFS | 0 | | 312/13 | | | | | | | |
| DMLI | 100 | | 131/57 | | | | | | | |
| DMPL | 21 | NOSTEXT | 256/23 | 257/46 | 262/54 | | | | | |
| DMPN | 53 | NOSTEXT | 256/30 | 257/56 | | | | | | |
| DNFL | 5 | NOSTEXT | 70/14 | 70/26 | 71/22 | 71/27 | | | | |
| DPP | 1571 | | 17/18 | 23/25 L | 32/35 | 110/35 | 295/38 | | | |
| | | | 20/43 | 26/47 | 102/34 | 254/31 | 313/27 | | | |
| DPPM | 61 | NOSTEXT | 111/22 | 198/32 | 209/11 | | | | | |
| DPPS | 2 | | 23/25 | 28/10 | 66/39 | 106/14 | 147/17 | | | |
| DRET | 37 | NOSTEXT | 87/33 | 87/33 | 88/20 | 88/20 | | | | |
| DSEQ | 1 | NOSTEXT | 310/20 | | | | | | | |
| DSLI | 10 | | 91/34 | 101/50 | | | | | | |
| DSSC | 23 | | 42/22 | 42/24 | 67/52 | 73/41 | | | | |
| DSSI | 7777 | | 36/36 | 36/38 | 304/30 | | | | | |
| DTCS | 1 | | 27/56 | 28/01 | 35/32 | 35/34 | 90/03 | 93/16 | 167/43 | |
| DTKM | 33 | NOSTEXT | 309/08 | 309/45 | | | | | | |
| DTLI | 10 | | 101/43 | | | | | | | |
| DUCS | 3 | | 306/47 | | | | | | | |
| D1 | 71 | | 216/52 I | 217/17 I | 239/44 I | | | | | |
| EACW | 65 | NOSTEXT | 310/13 | 311/21 | 311/26 | | | | | |
| EATM | 62 | NOSTEXT | 307/43 | | | | | | | |
| ECET | 30 | NOSTEXT | 103/10 | 103/10 | 104/10 | 104/10 | | | | |
| ECSM | 34 | NOSTEXT | 233/03 | | | | | | | |
| ECSW | 25 | NOSTEXT | 69/41 | 171/26 | 172/22 | 172/24 | 254/03 | 254/05 | | |
| EECW | 71 | NOSTEXT | 30/50 | 96/48 | 119/32 | 165/49 | 184/32 | 184/50 | 215/52 | 300/30 |
| | | | 30/52 | 101/38 | 136/43 | 166/26 | 184/34 | 215/38 | 300/18 | |
| | | | 94/17 | 119/21 | 165/47 | 166/28 | 184/48 | 215/50 | 300/25 | |
| EF | 46 | | 14/12 D | 31/45 | 79/51 | 96/01 | 106/10 | 122/15 | 140/16 | 322/41 |
| | | | 17/14 | 31/56 | 83/45 | 96/04 | 115/42 | 127/11 | 146/35 | 323/31 |
| | | | 18/21 S | 37/43 S | 86/26 | 97/10 | 118/39 | 137/11 | 165/01 S | 324/22 |
| | | | 18/28 | 42/27 | 87/05 | 98/32 | 118/43 S | 138/09 | 168/42 | |
| | | | 19/05 | 42/51 | 87/08 | 98/36 | 119/01 S | 138/21 | 187/10 S | |
| | | | 20/30 | 59/11 | 87/11 | 98/40 | 119/23 | 138/48 | 198/25 S | |
| | | | 20/56 | 73/28 | 88/47 S | 100/20 | 120/02 | 139/44 | 209/41 S | |
| | | | 22/35 S | 79/26 | 94/21 | 101/13 | 120/10 | 139/57 | 210/01 | |
| | | | 24/11 | 79/28 | 94/29 | 101/40 | 120/26 | 140/02 | 315/17 | |
| EIBP | 71 | NOSTEXT | 43/35 | | | | | | | |
| EJTB | 2171 | | 38/50 S | 38/50 S | | | | | | |
| EJTP | 74 | NOSTEXT | 38/50 | 199/08 | 249/04 | 262/51 | | | | |
| EJT\$ | 1 | | 29/04 D | | | | | | | |
| ELCW | 64 | NOSTEXT | 54/45 | 54/47 | 172/24 | 300/44 | 300/46 | 300/57 | | |
| ENJ | 1600 | | 16/33 | 19/21 | 23/43 L | | | | | |
| ENJB | 1606 | | 23/49 D | 30/56 S | | | | | | |
| ENTQ | 1 | NOSTEXT | 314/26 S | 314/28 S | 314/38 S | 314/39 S | 314/41 | 314/42 | | |
| EOCW | 115 | NOSTEXT | 168/08 | 168/13 | 207/07 | 212/42 | 212/52 | 275/09 | 275/14 | |
| EOJW | 27 | NOSTEXT | 30/46 | 34/10 | 54/56 | 86/34 | 113/16 | 293/50 | 294/10 | 320/19 |
| | | | 30/48 | 34/12 | 55/01 | 86/40 | 116/14 | 294/02 | 320/16 | |
| EP | 37 | | 14/09 D | 189/09 | 205/10 S | 209/55 | 213/22 S | 216/38 | | |
| | | | 165/03 S | 189/41 | 207/49 S | 213/16 | 214/22 | 322/37 | | |
| | | | 189/01 S | 198/26 S | 209/43 S | 213/20 | 215/22 S | | | |

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|-------|------|---------|--------|----------|----------|----------|--------|----------|----------|----------|---|
| EPFW | 7500 | NOSTEXT | 74/15 | 177/37 | 299/44 | | | | | | |
| EPNS | 4 | | 73/43 | | | | | | | | |
| EPRL | 777 | | 180/39 | | | | | | | | |
| EPRW | 100 | | 314/50 | | | | | | | | |
| EQAE | 1 | NOSTEXT | 310/30 | | | | | | | | |
| EQDE | 0 | NOSTEXT | 92/22 | 149/28 | 212/30 | 238/17 | 266/04 | 272/26 | 275/46 | 294/45 | |
| ESTP | 72 | NOSTEXT | 310/18 | | | | | | | | |
| EXJS | 1 | | 45/46 | 58/09 | | | | | | | |
| EXR | 462 | NOSTEXT | 16/24 | 22/46 | 28/47 | 145/36 | 156/46 | 179/12 | 265/13 | 299/09 | |
| | | | 18/38 | 25/40 | 79/41 | 148/24 | 157/32 | 205/15 | 265/36 | 307/20 | |
| | | | 20/36 | 26/07 | 87/14 | 149/56 | 165/04 | 207/50 | 277/38 | 308/25 | |
| | | | 20/49 | 26/49 | 88/52 | 150/47 | 169/45 | 210/06 | 292/36 | 312/16 | |
| | | | 21/16 | 28/03 | 92/42 | 155/51 | 170/20 | 234/53 | 295/28 | 318/26 | |
| | | | 22/03 | 28/09 | 115/11 | 156/16 | 178/50 | 251/33 | 298/46 | 323/37 | |
| E1AJ | 2300 | | 26/49 | 30/04 | 74/15 | 264/39 | 304/15 | | | | |
| | | | 30/02 | D 40/05 | 79/06 | 281/09 | | | | | |
| FA | 57 | | 14/14 | D 150/50 | S 209/44 | 221/36 | 234/56 | 265/12 | S 274/32 | S 295/25 | S |
| | | | 114/26 | S 162/23 | S 209/50 | 224/23 | 243/23 | 272/15 | S 275/11 | 307/17 | S |
| | | | 145/15 | 189/31 | 212/21 | S 224/33 | 251/32 | S 272/32 | 275/38 | 314/49 | S |
| | | | 145/21 | 198/24 | S 212/45 | 234/38 | 256/54 | 272/55 | 277/24 | 318/21 | S |
| | | | 149/22 | 205/11 | S 212/49 | 234/44 | 257/18 | 273/40 | 277/30 | | |
| FECF | 0 | | 38/37 | | | | | | | | |
| FL | 56 | NOSTEXT | 21/14 | 71/09 | 94/40 | 106/53 | 137/07 | 164/19 | 206/04 | 268/32 | |
| | | | 22/16 | 80/01 | 94/47 | 107/20 | 139/18 | 168/40 | 206/06 | 323/11 | |
| | | | 32/27 | 81/11 | 95/06 | 108/06 | 139/22 | 170/45 | 223/22 | | |
| | | | 36/41 | 82/13 | 95/22 | 116/52 | 152/28 | 187/07 | 225/53 | | |
| | | | 55/41 | 84/56 | 95/34 | 116/55 | 152/30 | 193/16 | 240/53 | | |
| | | | 59/41 | 85/28 | 95/38 | 119/36 | 154/27 | 205/27 | 256/12 | | |
| | | | 70/15 | S 89/14 | 97/26 | 122/30 | 160/01 | 205/46 | 268/05 | | |
| FLCW | 63 | NOSTEXT | 54/43 | 151/51 | 166/45 | 300/44 | 300/57 | | | | |
| | | | 54/45 | 154/34 | 300/42 | 300/55 | | | | | |
| FLET | 16 | NOSTEXT | 87/30 | 87/30 | 103/11 | 103/11 | 104/11 | 104/11 | | | |
| FLIW | 65 | NOSTEXT | 173/19 | 173/27 | | | | | | | |
| FLSS | 7166 | | 317/04 | | | | | | | | |
| FLSW | 23 | NOSTEXT | 30/48 | 70/48 | 118/32 | 186/34 | 254/01 | 300/40 | 320/21 | | |
| | | | 30/50 | 73/54 | 173/17 | 186/34 | 254/03 | 300/42 | | | |
| | | | 69/40 | 73/54 | 173/19 | 251/07 | 264/43 | 320/19 | | | |
| FNTB | 2177 | | 38/50 | S 38/50 | S | | | | | | |
| FNTL | 0 | NOSTEXT | 114/30 | 114/32 | 265/03 | 265/05 | | | | | |
| FNTN | 324 | NOSTEXT | 51/06 | 114/19 | 251/13 | 264/49 | 287/05 | 294/23 | 313/03 | | |
| FNTP | 73 | NOSTEXT | 38/50 | 199/08 | 221/47 | 249/04 | 262/51 | | | | |
| FNT\$ | 1 | | 29/05 | D | | | | | | | |
| PPFW | 62 | NOSTEXT | 54/39 | 73/05 | 156/02 | 196/39 | 289/38 | 306/18 | | | |
| | | | 54/43 | 149/42 | 179/34 | 284/36 | 298/39 | 306/53 | | | |
| | | | 73/03 | 149/48 | 196/37 | 284/38 | 306/16 | | | | |

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|-------|------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| FS | 20 | | 14/06 D | 82/18 S | 149/23 S | 166/07 S | 196/32 S | 224/32 S | 254/36 S | 276/05 |
| | | | 20/25 | 82/24 | 149/35 | 166/23 | 196/43 | 224/35 | 254/43 | 276/43 S |
| | | | 31/03 S | 82/26 | 150/04 S | 166/29 S | 209/46 | 234/40 | 256/57 S | 277/26 |
| | | | 31/07 S | 94/57 S | 150/08 S | 166/32 S | 209/49 S | 234/43 S | 257/03 | 277/29 S |
| | | | 50/52 S | 98/37 S | 160/06 S | 166/33 S | 209/52 | 234/46 | 257/05 | 277/32 |
| | | | 50/54 S | 98/39 S | 160/07 | 166/34 S | 212/27 | 243/21 | 265/06 S | 293/35 S |
| | | | 50/56 S | 98/41 S | 160/26 S | 166/36 | 213/03 | 243/25 S | 265/51 | 293/36 |
| | | | 51/09 | 99/33 | 160/27 | 180/17 S | 213/05 | 250/48 | 266/03 | 293/44 S |
| | | | 52/46 S | 107/03 S | 160/54 S | 180/18 | 213/34 | 250/50 S | 266/20 | 293/48 |
| | | | 54/57 | 107/43 | 160/56 S | 180/20 | 213/44 | 250/51 | 272/22 | 294/34 S |
| | | | 55/03 S | 107/45 S | 161/02 | 180/33 | 213/47 | 251/18 S | 272/31 S | 294/44 |
| | | | 55/16 | 107/48 | 161/04 S | 184/33 S | 216/48 | 251/19 | 272/34 | 295/21 |
| | | | 55/19 S | 107/51 | 161/06 S | 184/36 | 216/57 | 251/23 | 272/39 | 300/47 S |
| | | | 55/28 | 107/54 | 161/08 S | 184/38 S | 217/02 | 251/27 | 272/51 | 300/48 |
| | | | 55/33 S | 108/08 | 161/11 | 184/40 S | 218/41 | 251/55 S | 272/54 S | 310/19 S |
| | | | 55/37 | 108/11 | 165/50 S | 184/41 S | 218/52 | 252/05 | 272/57 | 310/27 |
| | | | 62/55 S | 114/33 S | 165/51 | 184/44 | 218/53 S | 252/07 S | 273/39 S | 312/06 S |
| | | | 63/03 S | 114/46 | 165/53 S | 184/46 S | 218/55 S | 252/11 S | 273/42 | 318/25 S |
| | | | 63/09 S | 114/56 | 165/55 S | 184/49 | 224/26 S | 252/35 | 275/16 | |
| | | | 72/29 S | 114/57 S | 165/56 S | 184/56 S | 224/28 S | 254/02 S | 275/40 S | |
| | | | 73/24 S | 115/06 | 166/02 | 184/57 | 224/29 | 254/24 | 275/41 | |
| FSET | 22 | NOSTEXT | 103/12 | 103/12 | 104/12 | 104/12 | | | | |
| FSMS | 1 | NOSTEXT | 61/18 | 150/05 | 180/27 | 213/36 | 216/50 | 218/54 | 272/41 | |
| FSTG | 1 | NOSTEXT | 221/53 | 306/41 | | | | | | |
| FSTL | 1 | NOSTEXT | 51/08 | 115/05 | 180/34 | 243/24 | 272/56 | 287/07 | 316/27 | |
| | | | 51/10 | 115/07 | 209/51 | 257/19 | 273/41 | 294/33 | | |
| | | | 114/32 | 149/24 | 224/34 | 265/05 | 275/39 | 312/05 | | |
| | | | 114/34 | 180/21 | 234/45 | 272/33 | 277/31 | 316/09 | | |
| FTN | 165 | NOSTEXT | 22/30 | 39/05 | 91/21 | 127/40 | 173/31 | 210/03 | 267/55 | 308/24 |
| | | | 23/27 | 43/44 | 95/54 | 129/42 | 173/37 | 224/44 | 277/37 | 309/08 |
| | | | 25/16 | 47/26 | 102/33 | 131/48 | 173/46 | 233/03 | 277/43 | 309/45 |
| | | | 25/21 | 52/17 | 106/03 | 133/32 | 174/36 | 234/52 | 284/51 | 310/36 |
| | | | 26/46 | 56/18 | 106/13 | 139/33 | 178/26 | 254/28 | 290/12 | 311/11 |
| | | | 28/12 | 59/47 | 106/16 | 146/34 | 187/44 | 254/37 | 290/39 | 312/15 |
| | | | 28/21 | 63/42 | 110/50 | 146/42 | 187/50 | 255/14 | 290/56 | 315/28 |
| | | | 32/33 | 65/39 | 111/21 | 146/53 | 191/06 | 255/27 | 292/35 | 316/49 |
| | | | 32/34 | 66/41 | 111/22 | 147/19 | 191/53 | 258/55 | 297/54 | 317/33 |
| | | | 33/38 | 68/10 | 112/24 | 161/35 | 193/48 | 259/33 | 299/02 | 318/43 |
| | | | 34/48 | 69/11 | 118/47 | 161/49 | 196/52 | 259/45 | 304/37 | 323/35 |
| | | | 35/39 | 70/17 | 118/56 | 167/26 | 199/05 | 260/09 | 306/29 | 324/24 |
| | | | 35/46 | 71/31 | 119/14 | 167/33 | 200/46 | 265/27 | 306/49 | |
| | | | 37/38 | 72/26 | 127/21 | 169/44 | 209/11 | 265/35 | 307/43 | |
| FUNC | 2567 | | 33/29 | 33/48 L | 33/57 | | | | | |
| FUNCL | 4 | | 33/27 | 33/57 D | | | | | | |
| FUTL | 2 | NOSTEXT | 51/10 | 114/34 | 115/07 | | | | | |
| FWPR | 66 | | 9/29 D | 153/30 | 226/18 | 227/37 | 227/39 | | | |
| GQSS | 7010 | NOSTEXT | 314/20 S | | | | | | | |
| HDIE | 10 | | 49/30 | 49/41 | 49/41 | 50/14 | 50/14 | | | |
| HN | 71 | NOSTEXT | 27/17 | 161/32 | 225/23 | 227/27 | 294/06 | | | |
| | | | 71/25 | 192/54 | 226/08 | 241/16 | | | | |
| HNGM | 22 | NOSTEXT | 34/48 | 70/17 | 72/26 | | | | | |
| HRIE | 23 | | 49/30 | 49/52 | 49/52 | 317/16 | 317/21 | | | |
| HRJT | 3 | | 127/44 | 287/29 | 289/05 | 311/54 | 314/30 | 316/03 | 317/11 S | 317/14 |
| | | | 287/28 | 287/32 | 289/05 | 311/56 | 314/31 | 316/04 | 317/12 | 317/16 |
| HRSS | 7141 | | 287/28 | 287/30 | 314/33 | 317/11 S | 317/13 | | | |
| HRTL | 2 | | 289/09 | 317/43 | | | | | | |
| IA | 75 | NOSTEXT | 19/42 | 43/57 | 72/40 | 130/23 | 147/40 | 191/04 | 201/18 | |

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|----|-------|------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | IAOT | 3 | NOSTEXT | 186/05 | | | | | | | | | | | | | |
| | ICPS | 6 | | 225/34 | | | | | | | | | | | | | |
| | IDET | 25 | NOSTEXT | 88/18 | 88/18 | 103/13 | 103/13 | 104/13 | 104/13 | 115/46 | 120/03 | | | | | | |
| 1 | IDIE | 13 | | 49/30 | 49/44 | 49/44 | 50/16 | 50/16 | | | | | | | | | |
| 2 | IFCS | 6 | | 68/08 | | | | | | | | | | | | | |
| 3 | IFP | 3106 | | 30/41 | 38/50 | D | | | | | | | | | | | |
| 4 | IFPX | 3105 | | 38/50 | L | 38/50 | | | | | | | | | | | |
| 5 | IFP\$ | 1 | | 29/06 | D | | | | | | | | | | | | |
| 6 | IFSI | 7776 | | 37/52 | 38/37 | 186/13 | | | | | | | | | | | |
| 7 | IMCS | 1 | | 188/07 | | | | | | | | | | | | | |
| 8 | IMLL | 1 | | 223/42 | 224/17 | 224/52 | | | | | | | | | | | |
| 9 | INFT | 17 | NOSTEXT | 55/53 | 287/13 | 313/15 | | | | | | | | | | | |
| 10 | INQF | 0 | | 62/36 | 62/38 | | | | | | | | | | | | |
| 11 | INSQ | 2 | NOSTEXT | 51/02 | 55/20 | 55/24 | | | | | | | | | | | |
| 12 | INWL | 124 | NOSTEXT | 304/46 | | | | | | | | | | | | | |
| 13 | IOAW | 53 | NOSTEXT | 188/05 | 224/49 | 282/19 | 282/21 | | | | | | | | | | |
| 14 | IOSS | 7050 | | 51/02 | 55/24 | 314/26 | S | 314/38 | S | 314/42 | 314/45 | S | | | | | |
| 15 | | | | 55/20 | 62/34 | 314/28 | S | 314/39 | S | 314/43 | 314/55 | | | | | | |
| 16 | IPPL | 50 | NOSTEXT | 52/33 | | | | | | | | | | | | | |
| 17 | IPRL | 44 | NOSTEXT | 226/40 | | | | | | | | | | | | | |
| 18 | IR | 50 | NOSTEXT | 17/21 | 33/29 | 110/48 | S | 160/48 | 179/19 | S | 191/43 | 206/45 | 256/44 | S | | | |
| 19 | | | | 19/36 | S | 43/51 | S | 147/34 | S | 160/50 | S | 179/20 | 191/46 | 208/52 | 257/17 | S | |
| 20 | | | | 19/38 | | 43/53 | | 147/36 | | 160/51 | S | 179/22 | S | 198/27 | 208/52 | 257/24 | S |
| 21 | | | | 19/40 | | 43/55 | | 147/38 | | 160/52 | S | 179/25 | S | 198/35 | 213/24 | 265/32 | S |
| 22 | | | | 19/41 | S | 43/56 | S | 147/39 | S | 167/08 | | 179/28 | | 198/49 | 213/24 | 277/23 | S |
| 23 | | | | 19/43 | | 44/01 | | 147/41 | | 168/04 | | 189/02 | | 198/52 | 216/42 | 292/32 | S |
| 24 | | | | 20/39 | | 72/34 | S | 153/40 | | 169/39 | S | 189/26 | | 201/15 | 216/46 | 308/21 | S |
| 25 | | | | 20/41 | | 72/35 | S | 153/43 | | 173/43 | | 189/37 | | 205/21 | 234/37 | S | 323/53 |
| 26 | | | | 20/46 | | 72/41 | | 153/53 | | 178/19 | | 189/53 | | 205/23 | 255/05 | S | 324/03 |
| 27 | | | | 24/33 | S | 110/32 | | 153/55 | S | 178/31 | | 190/38 | | 205/32 | 255/11 | S | |
| 28 | | | | 24/35 | S | 110/46 | S | 157/23 | | 178/35 | S | 190/41 | | 205/32 | 255/13 | S | |
| 29 | | | | 33/26 | | 110/47 | S | 157/26 | | 178/42 | | 190/45 | | 206/41 | 256/09 | | |
| 30 | IRO | 1615 | | 24/10 | | 24/32 | L | 27/23 | | | | | | | | | |
| 31 | IRO1 | 1636 | | 24/38 | | 24/49 | L | | | | | | | | | | |
| 32 | IRSI | 1 | | 259/22 | | 259/24 | | | | | | | | | | | |
| 33 | ISSS | 7135 | | 57/54 | | | | | | | | | | | | | |
| 34 | ITET | 4 | NOSTEXT | 87/28 | 87/28 | 103/14 | 103/14 | 104/14 | 104/14 | 140/42 | 140/42 | | | | | | |
| 35 | ITF | 1643 | | 25/13 | D | 38/03 | 110/13 | | | | | | | | | | |
| 36 | ITFX | 1642 | | 25/13 | L | 25/18 | 25/20 | | | | | | | | | | |
| 37 | ITF1 | 1644 | | 25/14 | L | 25/26 | | | | | | | | | | | |
| 38 | ITF2 | 1665 | | 25/24 | L | 25/27 | | | | | | | | | | | |
| 39 | JACM | 63 | NOSTEXT | 23/27 | 66/41 | 110/50 | 147/19 | 173/37 | 265/35 | 292/35 | | | | | | | |
| 40 | | | | 28/12 | 106/16 | 146/53 | 169/44 | 234/52 | 277/37 | 308/24 | | | | | | | |
| 41 | JASS | 7120 | | 42/56 | 317/18 | S | | | | | | | | | | | |
| 42 | JBCS | 1107 | | 15/30 | L | 27/55 | 35/11 | S | 35/31 | 38/26 | 90/02 | 93/13 | | | | | |
| 43 | JBOT | 1106 | | 15/29 | L | 38/29 | 53/23 | 57/35 | 63/02 | 289/52 | | | | | | | |
| 44 | | | | 33/13 | S | 51/19 | 53/47 | 62/05 | 73/14 | 293/55 | | | | | | | |
| 45 | JBSC | 1105 | | 15/28 | L | 33/18 | S | 42/21 | 51/22 | 67/51 | 73/40 | 298/33 | | | | | |
| 46 | JCDW | 107 | NOSTEXT | 34/12 | 195/52 | 300/30 | 300/35 | 300/40 | | | | | | | | | |
| 47 | JCIE | 1 | | 49/30 | 49/34 | 49/34 | 50/12 | 50/12 | | | | | | | | | |
| 48 | JCIW | 26 | NOSTEXT | 26/02 | 37/49 | 57/28 | 69/42 | 121/18 | 254/05 | 260/38 | 320/21 | | | | | | |
| 49 | | | | 36/13 | 57/21 | 58/57 | 102/28 | 197/36 | 254/07 | 261/30 | | | | | | | |
| 50 | | | | 36/15 | 57/26 | 59/09 | 110/38 | 197/38 | 260/36 | 261/32 | | | | | | | |
| 51 | JCRW | 110 | NOSTEXT | 115/37 | 115/49 | | | | | | | | | | | | |
| 52 | JCSS | 7125 | | 53/53 | 53/55 | | | | | | | | | | | | |
| 53 | JDBL | 114 | NOSTEXT | 71/38 | | | | | | | | | | | | | |
| 54 | JESS | 7126 | | 54/22 | 54/24 | | | | | | | | | | | | |

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| JFSS | 7127 | | 57/01 | | | | | | | | | |
| JO | 45 | | 14/11 D | 37/28 | 65/30 | 133/26 | 185/51 | 257/06 | 298/30 | 315/24 | | |
| | | | 33/03 | 57/38 | 72/18 | 180/03 | 197/50 S | 257/12 | 310/34 | 320/36 | | |
| | | | 35/04 S | 58/20 | 73/22 | 180/09 | 197/54 | 297/29 | 310/57 | 321/22 | | |
| | | | 9/29 D | | | | | | | | | |
| JOPR | 66 | | | | | | | | | | | |
| JPPN | 14 | NOSTEXT | 52/38 | | | | | | | | | |
| JSCW | 123 | NOSTEXT | 55/18 | | | | | | | | | |
| JSET | 41 | NOSTEXT | 87/36 | 87/36 | | | | | | | | |
| JSNE | 0 | NOSTEXT | 35/06 | 57/39 | 72/19 | 180/10 | 185/55 | 298/31 | | | | |
| | | | 45/42 | 67/19 | 180/04 | 185/52 | 297/30 | 315/34 | | | | |
| JSNQ | 0 | NOSTEXT | 62/34 | 314/43 | 314/45 S | 314/55 | | | | | | |
| JTFG | 1111 | | 15/32 L | 31/14 S | 42/35 S | 72/38 S | 286/50 | 293/43 S | | | | |
| | | | 27/48 | 33/10 S | 63/11 S | 286/30 | 293/38 S | 294/15 S | | | | |
| JTFL | 276 | NOSTEXT | 41/25 | | | | | | | | | |
| JTOP | 1110 | | 15/31 L | 27/52 | 63/14 S | 72/39 S | 113/22 | 287/26 | 314/29 | 316/38 | | |
| | | | 24/36 | 31/17 S | 66/47 S | 113/14 S | 286/23 | 311/51 | 315/57 | 316/55 S | | |
| JTSS | 7130 | | 51/40 S | 51/42 S | 52/21 | 52/23 | | | | | | |
| LA | 15 | NOSTEXT | 26/49 S | 115/11 S | 251/33 S | 295/28 S | 299/09 S | 312/16 S | | | | |
| | | | 92/42 S | 156/16 S | 265/13 S | 298/46 S | 307/20 S | 318/26 S | | | | |
| LB1W | 112 | NOSTEXT | 148/19 | 167/53 | 189/48 | 207/01 | 272/06 | 274/06 | 276/32 | | | |
| LCRS | 6 | | 246/45 | | | | | | | | | |
| LDCI | 2000 | | 206/21 | 245/46 | | | | | | | | |
| LDNI | 1400 | | 21/48 | 182/04 | 198/32 | 214/32 | 248/29 | | | | | |
| | | | 181/14 | 191/37 | 212/11 | 235/34 | 274/25 | | | | | |
| LDOS | 4 | | 304/45 | | | | | | | | | |
| LDRR | 67 | | 9/29 D | 209/03 | 209/09 | 227/39 | | | | | | |
| LDSP | 142 | NOSTEXT | 297/32 | | | | | | | | | |
| LENF | 3 | NOSTEXT | 114/19 | 114/24 | 251/34 | 264/55 | 294/27 | 313/03 | 313/05 | | | |
| LIFT | 10 | NOSTEXT | 114/40 | 114/42 | | | | | | | | |
| LINP | 74 | | 9/29 D | | | | | | | | | |
| LJMI | 100 | | 195/47 | 196/09 | 262/24 | 276/23 | | | | | | |
| LOFW | 121 | NOSTEXT | 84/46 | 105/22 | 166/28 | | | | | | | |
| LOPT | 4 | | 86/22 | 86/24 | | | | | | | | |
| LPNI | 1200 | | 171/38 | 275/23 | | | | | | | | |
| LREC | 16 | NOSTEXT | 52/57 | | | | | | | | | |
| LSSI | 7745 | | 36/34 | 36/38 | 198/07 | 254/20 | 321/14 | | | | | |
| | | | 36/36 | 110/41 | 252/37 | 261/39 | | | | | | |
| LWPR | 65 | | 9/29 D | 153/28 | 153/30 | 226/31 | 227/35 | 227/37 | | | | |
| MA | 77 | NOSTEXT | 22/28 | 64/15 | 129/40 | 174/17 | 196/46 | 232/56 | 271/43 | 290/52 | | |
| | | | 22/39 | 65/36 | 131/46 | 187/42 | 196/53 | 237/04 | 271/52 | 291/15 | | |
| | | | 38/01 | 91/11 | 133/30 | 190/23 | 207/25 | 237/27 | 276/40 | 296/24 | | |
| | | | 42/42 | 91/22 | 139/31 | 190/26 | 223/48 | 243/20 | 284/45 | 297/52 | | |
| | | | 52/13 | 95/52 | 151/06 | 193/46 | 224/39 | 245/56 | 284/52 | 304/35 | | |
| | | | 56/16 | 105/36 | 156/53 | 193/52 | 229/30 | 246/32 | 290/08 | 315/22 | | |
| | | | 56/19 | 105/57 | 167/22 | 194/02 | 230/35 | 255/25 | 290/31 | 322/57 | | |
| | | | 63/40 | 110/11 | 173/42 | 194/10 | 231/07 | 268/16 | 290/40 | 323/50 | | |
| MABL | 113 | NOSTEXT | 53/05 | 73/54 | 83/48 | 127/48 | 186/34 | 192/57 | 225/24 | 226/33 | | |
| MCMX | 10000 | NOSTEXT | 172/36 | 172/39 | 173/14 | 254/17 | | | | | | |
| MEFL | 77 | NOSTEXT | 53/33 | | | | | | | | | |
| MFSI | 7763 | | 121/36 | | | | | | | | | |
| MJNI | 700 | | 181/44 | | | | | | | | | |
| MLBR | 55 | | 9/29 D | | | | | | | | | |
| MLET | 14 | NOSTEXT | 88/15 | 88/15 | 103/15 | 103/15 | 104/15 | 104/15 | | | | |
| MMFL | 122 | NOSTEXT | 130/28 | | | | | | | | | |
| MSD | 110 | NOSTEXT | 169/35 | 234/33 | 245/28 | 277/19 | | | | | | |
| MSER | 2 | | 289/10 | 317/44 | | | | | | | | |
| MSIE | 5 | | 49/30 | 49/38 | 49/38 | | | | | | | |

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| MS1W | 31 | NOSTEXT | 127/30 | 146/24 | 155/27 | 181/14 | 191/49 | 298/56 | 324/10 | 324/13 |
| MS2W | 36 | NOSTEXT | 17/25 | 166/22 | 166/24 | 181/14 | 324/10 | | | |
| MTRM | 66 | NOSTEXT | 317/33 | | | | | | | |
| MTSI | 7760 | | 121/34 | | | | | | | |
| MXCH | 51 | NOSTEXT | 311/15 | | | | | | | |
| MXET | 47 | NOSTEXT | 87/44 | 88/29 | 103/34 | 104/34 | 118/50 | 140/43 | | |
| MXOT | 6 | NOSTEXT | 33/14 | | | | | | | |
| MXSC | 24 | | 33/19 | | | | | | | |
| M1SR | 12 | | 45/34 | | | | | | | |
| M2SR | 144 | | 45/34 | | | | | | | |
| M3SR | 3 | | 45/34 | | | | | | | |
| M4SR | 3 | | 45/34 | | | | | | | |
| NDST | 7 | | 55/53 | | | | | | | |
| NEEQ | 2 | NOSTEXT | 44/53 | 67/54 | 306/23 | 306/25 | | | | |
| NLIE | 16 | | 49/47 | 49/47 | 50/19 | 50/19 | | | | |
| NLTM | 1 | | 293/42 | | | | | | | |
| NMSN | 10000 | NOSTEXT | 65/03 | 89/19 | 169/09 | | | | | |
| NOJT | 1 | | 42/34 | 62/40 | 286/32 | 286/52 | 294/07 | 320/31 | | |
| NOQF | 1 | | 62/38 | 62/43 | | | | | | |
| NOTM | 0 | | 27/50 | 198/04 | 293/39 | | | | | |
| NRET | 36 | NOSTEXT | 120/27 | | | | | | | |
| NRIE | 6 | | 49/30 | 49/39 | 49/39 | | | | | |
| NXJT | 5 | | 286/24 | 286/26 | 289/07 | 316/05 | | | | |
| OA | 76 | NOSTEXT | 247/06 | | | | | | | |
| OAEW | 27 | NOSTEXT | 156/32 | 156/34 | 156/41 | | | | | |
| ODET | 24 | NOSTEXT | 31/57 | 87/31 | 88/46 | 103/16 | 104/16 | 140/35 | | |
| | | | 32/02 | 87/31 | 103/16 | 104/16 | 140/35 | | | |
| ODIE | 11 | | 49/30 | 49/42 | 49/42 | | | | | |
| OKET | 35 | NOSTEXT | 32/02 | 79/29 | 87/34 | 88/21 | 103/17 | 104/17 | 140/41 | |
| | | | 32/04 | 87/34 | 88/21 | 94/30 | 103/17 | 104/17 | 140/41 | |
| OLCS | 2 | | 28/01 | 35/34 | 38/27 | 57/44 | 93/14 | 93/16 | 186/11 | |
| ON | 70 | NOSTEXT | 22/29 | 54/53 | 122/36 | 168/47 | 229/31 | 260/37 | 284/53 | 298/38 |
| | | | 22/41 | 54/55 | 122/47 | 174/19 | 230/36 | 261/01 | 290/32 | 298/40 |
| | | | 42/43 | 55/29 | 126/12 | 185/54 | 231/08 | 261/12 | 290/33 | 304/36 |
| | | | 48/36 | 57/29 | 130/42 | 188/55 | 243/22 | 261/33 | 290/34 | 314/55 |
| | | | 51/07 | 59/34 | 133/31 | 194/03 | 243/34 | 261/35 | 290/41 | 323/02 |
| | | | 52/12 | 73/04 | 151/08 | 194/05 | 243/35 | 261/36 | 290/42 | 323/52 |
| | | | 52/14 | 73/06 | 156/03 | 196/54 | 245/57 | 261/37 | 290/43 | |
| | | | 54/40 | 73/08 | 156/19 | 205/34 | 252/33 | 271/45 | 291/16 | |
| | | | 54/41 | 73/10 | 159/50 | 206/47 | 255/26 | 271/47 | 291/18 | |
| | | | 54/42 | 73/18 | 159/54 | 207/27 | 257/51 | 271/53 | 296/26 | |
| | | | 54/51 | 111/18 | 167/23 | 224/40 | 257/55 | 276/41 | 298/32 | |
| ORET | 46 | NOSTEXT | 73/29 | 87/42 | 88/27 | 103/18 | 104/18 | 140/39 | 315/18 | |
| | | | 87/42 | 88/27 | 103/18 | 104/18 | 140/39 | 299/04 | | |
| OTIE | 3 | | 49/30 | 49/36 | 49/36 | | | | | |
| OVL | 4543 | | 156/03 S | 156/12 | 156/16 | 177/37 | 200/30 | 221/06 | 271/40 | |
| | | | 156/11 S | 156/15 S | 177/36 D | 183/12 | 219/17 | 249/11 | | |
| OVRT | 4 | | 218/28 | 273/53 | 273/55 | | | | | |
| PCET | 10 | NOSTEXT | 88/13 | 88/13 | 103/19 | 103/19 | 104/19 | 104/19 | 140/34 | 140/34 |
| PEET | 44 | NOSTEXT | 83/46 | 88/23 | 103/20 | 104/20 | 140/38 | | | |
| | | | 88/23 | 103/20 | 104/20 | 127/12 | 140/38 | | | |
| PES | 1675 | | 17/17 | 18/31 | 25/39 D | | | | | |
| PESX | 1674 | | 25/39 L | 25/41 | | | | | | |
| PES1 | 1676 | | 25/40 L | 25/43 | | | | | | |
| PFCW | 67 | NOSTEXT | 54/47 | 54/49 | 73/05 | 73/07 | 92/17 | 92/19 | 306/18 | 306/33 |
| PFGL | 4 | NOSTEXT | 92/26 | | | | | | | |
| PFNL | 107 | NOSTEXT | 68/03 | | | | | | | |

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| | PGNR | 64 | | 9/29 | D | 81/52 | 154/01 | 154/12 | 154/18 | 155/35 | 158/30 | 237/09 |
| | PLFM | 67 | NOSTEXT | 312/15 | | | | | | | | |
| | PLSI | 7750 | | 321/16 | | | | | | | | |
| 1 | PPC | 1131 | | 17/11 | L | 20/40 | 21/06 | 33/54 | | | | |
| 2 | PPCP | 77 | NOSTEXT | 130/21 | | | | | | | | |
| 3 | PPC1 | 1144 | | 17/16 | | 17/20 | L | | | | | |
| 4 | PPC2 | 1153 | | 17/23 | | 17/27 | L | | | | | |
| 5 | PPDW | 115 | NOSTEXT | 109/26 | | 133/54 | 184/34 | 184/50 | 254/09 | 255/02 | 256/36 | |
| 6 | PPET | 6 | NOSTEXT | 21/48 | | 88/12 | 103/21 | 104/21 | 140/32 | 146/38 | 323/33 | |
| 7 | | | | 88/12 | | 101/56 | 103/21 | 104/21 | 140/32 | 277/41 | | |
| 8 | PPFW | 1100 | NOSTEXT | 15/12 | | 145/08 | 199/16 | 205/08 | 301/19 | 321/48 | | |
| 9 | PPR | 257 | NOSTEXT | 19/44 | | 28/13 | 66/42 | 111/23 | 173/47 | 187/51 | 210/04 | |
| 10 | | | | 23/28 | | 44/13 | 106/17 | 146/46 | 178/27 | 209/12 | 324/25 | |
| 11 | PQF | 3226 | | 31/36 | | 39/05 | D | | | | | |
| 12 | PQFT | 3 | | 316/41 | | 317/31 | | | | | | |
| 13 | PQFX | 3225 | | 39/05 | L | 39/05 | | | | | | |
| 14 | PQF1 | 3235 | | 39/05 | | 39/05 | L | | | | | |
| 15 | PQF2 | 3221 | | 39/05 | L | 39/05 | | | | | | |
| 16 | PQF3 | 3222 | | 39/05 | L | 39/05 | 39/05 | | | | | |
| 17 | PRCF | 1112 | | 15/33 | L | 17/15 | 18/29 | 20/31 | 34/29 S | 72/33 S | 80/10 | 86/28 |
| 18 | PRFE | 2 | NOSTEXT | 37/29 | | 45/53 | 67/13 | | | | | |
| 19 | PRJS | 0 | | 32/31 | | 72/24 | | | | | | |
| 20 | PRRT | 20 | | 151/22 | | 274/17 | | | | | | |
| 21 | PRS | 2274 | | 15/15 | | 30/40 | D | | | | | |
| 22 | PRSA | 2456 | | 32/30 | D | 35/14 | S | | | | | |
| 23 | PRSX | 2273 | | 30/40 | L | 33/30 | | | | | | |
| 24 | PRS0 | 2322 | | 30/55 | | 31/01 | L | | | | | |
| 25 | PRS0.1 | 2362 | | 31/20 | | 31/23 | 31/31 L | | | | | |
| 26 | PRS1 | 2364 | | 31/30 | | 31/32 | L | | | | | |
| 27 | PRS2 | 2415 | | 31/44 | | 31/56 | L | | | | | |
| 28 | PRS2.1 | 2432 | | 32/01 | | 32/03 | 32/05 | 32/07 | 32/10 L | | | |
| 29 | PRS2.2 | 2454 | | 31/47 | | 31/49 | 32/15 | 32/27 L | | | | |
| 30 | PRS2.3 | 2470 | | 32/09 | | 32/18 | 32/20 | 32/26 | 32/28 | 32/32 | 32/39 L | |
| 31 | PRS3 | 2477 | | 32/41 | | 32/46 | L | | | | | |
| 32 | PRS4 | 2503 | | 32/48 | | 32/50 | L | | | | | |
| 33 | PRS5 | 2504 | | 32/44 | | 32/51 | L | | | | | |
| 34 | PRS6 | 2552 | | 33/30 | L | 33/40 | | | | | | |
| 35 | PRS7 | 2554 | | 33/15 | | 33/20 | 33/28 | 33/34 L | | | | |
| 36 | PSET | 5 | NOSTEXT | 88/11 | | 88/11 | 103/22 | 103/22 | 104/22 | 104/22 | 140/36 | 140/36 |
| 37 | PSNI | 77 | | 170/48 | | 171/35 | | | | | | |
| 38 | PWJS | 14 | | 67/23 | | | | | | | | |
| 39 | QFBL | 10 | NOSTEXT | 39/05 | | 318/43 | | | | | | |
| 40 | QFBN | 75 | NOSTEXT | 39/05 | | 39/05 | 318/43 | 318/43 | | | | |
| 41 | QFFT | 20 | NOSTEXT | 294/39 | | | | | | | | |
| 42 | QFTB | 2205 | | 38/50 | S | 38/50 | S | | | | | |
| 43 | QFTE | 4 | NOSTEXT | 314/21 | | | | | | | | |
| 44 | QFTP | 75 | NOSTEXT | 38/50 | | 199/08 | 249/04 | 262/51 | | | | |
| 45 | QFT\$ | 1 | | 29/07 | D | | | | | | | |
| 46 | QOJT | 0 | | 62/53 | | 72/36 | | | | | | |
| 47 | QUAL\$ | 1 | | 5/05 | D | | | | | | | |

| | | | | | | | | | | |
|----|--------|---------|---------|--------|---------|---------|---------|---------|----------|----------|
| RA | 55 | NOSTEXT | 19/09 | 85/01 | 116/54 | 145/40 | 181/16 | 223/25 | 252/29 | 275/38 |
| | | | 22/18 | 85/32 | 119/38 | 149/22 | 181/23 | 224/33 | 256/26 | 277/30 |
| | | | 36/43 | 92/38 | 119/44 | 153/26 | 186/53 | 225/18 | 256/30 | 285/47 |
| | | | 39/05 | 94/48 | 120/50 | 153/56 | 188/38 | 226/16 | 257/18 | 285/52 |
| | | | 39/05 | 95/05 | 121/02 | 154/10 | 190/32 | 226/29 | 257/56 | 287/05 |
| | | | 42/49 | 97/25 | 122/32 | 154/16 | 193/20 | 227/06 | 258/49 | 290/20 |
| | | | 51/06 | 97/45 | 122/44 | 155/07 | 195/21 | 227/12 | 261/09 | 294/31 |
| | | | 52/38 | 98/44 | 125/18 | 155/16 | 195/32 | 227/18 | 261/18 | 309/34 |
| | | | 55/43 | 99/29 | 125/25 | 155/29 | 205/32 | 227/33 | 261/21 | 312/04 |
| | | | 59/52 | 100/15 | 126/09 | 158/23 | 206/43 | 231/19 | 265/02 | 313/09 |
| | | | 61/38 | 100/42 | 130/40 | 158/57 | 207/09 | 231/32 | 268/04 | 316/08 |
| | | | 70/23 | 105/53 | 132/18 | 159/12 | 208/14 | 234/44 | 268/31 | 316/26 |
| | | | 71/42 | 106/55 | 137/33 | 160/03 | 208/52 | 237/07 | 268/39 | 318/43 |
| | | | 73/17 | 110/03 | 138/04 | 167/45 | 209/01 | 238/49 | 268/55 | 318/43 |
| | | | 81/16 | 114/29 | 138/23 | 167/50 | 209/07 | 243/23 | 269/10 | 323/09 |
| | | | 81/55 | 115/04 | 138/56 | 168/44 | 209/50 | 246/56 | 272/32 | 323/13 |
| | | | 82/15 | 116/47 | 140/04 | 180/20 | 213/24 | 251/17 | 272/55 | |
| | | | 82/38 | 116/51 | 140/11 | 180/33 | 216/44 | 252/26 | 273/40 | |
| | RAET | 40 | NOSTEXT | 87/40 | 87/40 | 88/25 | 88/25 | | | |
| | RA.CEJ | 66 | | 9/29 | D | | | | | |
| | RA.CMU | 65 | | 9/29 | D | | | | | |
| | RA.MTR | 1 | | 9/29 | D | | | | | |
| | RCCW | 126 | NOSTEXT | 52/52 | | | | | | |
| | RCET | 23 | NOSTEXT | 87/35 | 87/35 | 103/23 | 103/23 | 104/23 | 104/23 | |
| | RCIS | 0 | | 290/35 | | | | | | |
| | RCPM | 71 | NOSTEXT | 32/34 | 102/33 | 191/06 | 258/55 | | | |
| | RC1N | 16 | NOSTEXT | 167/45 | 167/50 | | | | | |
| | RC2N | 15 | NOSTEXT | 290/20 | | | | | | |
| | RDCM | 40 | NOSTEXT | 56/18 | 63/42 | 193/48 | 290/39 | | | |
| | RDCT | 103 | | 66/31 | 169/32 | 234/30 | 317/34 | | | |
| | RDDS | 3 | | 224/01 | 245/46 | | | | | |
| | RDS | 530 | NOSTEXT | 245/53 | | | | | | |
| | RECM | 72 | NOSTEXT | 173/46 | | | | | | |
| | RF | 65 | | 14/16 | D 18/26 | 21/04 | 72/30 | S 81/13 | 119/35 | S 137/09 |
| | | | | 17/12 | 20/28 | 32/51 | S 79/22 | 94/23 | 120/35 | S 138/50 |
| | RFCW | 75 | NOSTEXT | 31/25 | 112/05 | 163/51 | 318/14 | 323/18 | | |
| | | | | 111/44 | 155/57 | 185/20 | 318/31 | | | |
| | RJF | 1707 | | 23/45 | 25/57 | D 28/46 | | | | |
| | RJFX | 1706 | | 25/57 | L 26/06 | 26/08 | | | | |
| | RJJT | 2 | | 90/27 | 289/04 | 311/52 | 316/01 | 316/39 | 317/12 | 317/16 |
| | | | | 124/33 | 289/04 | 311/54 | 316/03 | 317/11 | S 317/14 | |
| | RJMI | 200 | | 276/25 | | | | | | |
| | RLIA | 6 | | 91/27 | 101/52 | | | | | |
| | RLIS | 2 | | 91/27 | 91/36 | | | | | |
| | RLIT | 1 | | 101/45 | | | | | | |
| | RLJS | 3 | | 146/32 | | | | | | |
| | RLMM | 75 | NOSTEXT | 112/24 | 146/34 | 260/09 | | | | |
| | RLRT | 3 | | 151/17 | 151/22 | 273/55 | 274/17 | | | |
| | RLS | 2223 | | 28/08 | 66/36 | | | | | |
| | RLTL | 4 | | 260/07 | | | | | | |
| | RNSS | 7121 | | 48/57 | | | | | | |
| | RO | 47 | | 14/13 | D 18/18 | 20/26 | 20/54 | 22/32 | S 31/10 | S 72/31 |
| | ROCM | 76 | NOSTEXT | 35/39 | 111/21 | 173/31 | | | | |
| | ROFT | 7 | NOSTEXT | 114/42 | 251/21 | | | | | |
| | ROJ | 1611 | | 18/22 | 24/08 | L 89/39 | | | | |
| | ROJ1 | 1614 | | 23/47 | 24/11 | L | | | | |
| | ROSR | 0 | | 35/36 | | | | | | |

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| | | | | | | | | | | | | | | |
|----|--------|------|---------|--------|---------|----------|----------|----------|----------|----------|----------|---|--|--|
| | ROSU | 10 | | 24/44 | 35/36 | 35/37 | | | | | | | | |
| | RPLP | 142 | NOSTEXT | 244/22 | | | | | | | | | | |
| | RPMS | 4 | | 265/23 | | | | | | | | | | |
| 1 | RPPM | 100 | NOSTEXT | 106/03 | | | | | | | | | | |
| 2 | RRET | 34 | NOSTEXT | 32/04 | 87/32 | 88/19 | 103/24 | 104/24 | 137/14 | | | | | |
| 3 | | | | 32/06 | 87/32 | 88/19 | 103/24 | 104/24 | | | | | | |
| 4 | RSET | 31 | NOSTEXT | 37/34 | | | | | | | | | | |
| 5 | RSTM | 17 | NOSTEXT | 254/37 | | | | | | | | | | |
| 6 | RTCL | 106 | NOSTEXT | 55/04 | 193/29 | 314/23 | | | | | | | | |
| 7 | SC | 67 | | 14/20 | D 26/35 | S 26/50 | | | | | | | | |
| 8 | SCAF | 1113 | | 15/34 | L 26/33 | 26/51 | S 32/56 | S 72/32 | S 79/31 | 79/49 | | | | |
| 9 | SCH | 1115 | | 16/23 | L 33/52 | | | | | | | | | |
| 10 | SCHA | 1127 | | 16/26 | 16/31 | L 16/31 | | | | | | | | |
| 11 | SCHE | 1 | NOSTEXT | 33/04 | 45/48 | 67/07 | 133/35 | 197/57 | 257/13 | 293/47 | | | | |
| 12 | | | | 33/06 | 46/02 | 73/23 | 197/55 | 257/07 | 293/34 | | | | | |
| 13 | SCIE | 20 | | 49/30 | 49/49 | 49/49 | | | | | | | | |
| 14 | SCLE | 3 | NOSTEXT | 33/06 | 67/25 | 185/55 | 197/57 | 248/25 | 320/37 | | | | | |
| 15 | SCP | 1724 | | 21/08 | 23/44 | 25/42 | 26/32 | D 27/47 | 28/45 | | | | | |
| 16 | SCPX | 1723 | | 26/32 | L 26/34 | 26/52 | | | | | | | | |
| 17 | SCP1 | 1751 | | 26/41 | 26/49 | L | | | | | | | | |
| 18 | SCS | 2724 | | 32/55 | 36/08 | D | | | | | | | | |
| 19 | SCSX | 2723 | | 36/08 | L 37/05 | | | | | | | | | |
| 20 | SCS0.1 | 2743 | | 36/24 | 36/26 | L | | | | | | | | |
| 21 | SCS1 | 2773 | | 36/42 | 36/49 | 36/55 | L | | | | | | | |
| 22 | SCS2 | 3002 | | 36/33 | 36/37 | 36/40 | 37/02 | 37/04 | L | | | | | |
| 23 | SCVN | 26 | NOSTEXT | 42/49 | | | | | | | | | | |
| 24 | SEF | 3006 | | 31/32 | 37/27 | D | | | | | | | | |
| 25 | SEFA | 3032 | | 37/37 | S 37/46 | D | | | | | | | | |
| 26 | SEFX | 3005 | | 37/27 | L 37/47 | 37/53 | 38/04 | | | | | | | |
| 27 | SEF0 | 3030 | | 37/35 | 37/42 | L | | | | | | | | |
| 28 | SEF1 | 3031 | | 37/32 | 37/40 | 37/43 | L | | | | | | | |
| 29 | SEPW | 105 | NOSTEXT | 18/33 | 36/15 | 156/20 | 188/54 | 251/53 | 256/04 | 257/52 | | | | |
| 30 | | | | 20/19 | 36/17 | 160/47 | 197/42 | 252/34 | 257/02 | | | | | |
| 31 | | | | 20/21 | 92/29 | 170/15 | 250/47 | 254/07 | 257/04 | | | | | |
| 32 | | | | 32/22 | 156/18 | 179/18 | 250/49 | 254/09 | 257/49 | | | | | |
| 33 | SEQM | 20 | NOSTEXT | 28/21 | 311/11 | | | | | | | | | |
| 34 | SESS | 7142 | | 287/30 | 314/34 | 317/13 | | | | | | | | |
| 35 | SHCN | 22 | NOSTEXT | 19/09 | 120/50 | 145/40 | 181/23 | 195/21 | 285/52 | | | | | |
| 36 | | | | 110/03 | 121/02 | 181/16 | 188/38 | 195/32 | 323/09 | | | | | |
| 37 | SISS | 7137 | | 42/33 | S 43/18 | 43/22 | 57/23 | 59/02 | 59/16 | 59/20 | 59/38 | | | |
| 38 | SJCM | 105 | NOSTEXT | 43/44 | 259/33 | 259/45 | 265/27 | | | | | | | |
| 39 | SMDM | 42 | NOSTEXT | 68/10 | 306/29 | 306/49 | | | | | | | | |
| 40 | SMSI | 7755 | | 121/37 | | | | | | | | | | |
| 41 | SNSW | 30 | NOSTEXT | 32/11 | 119/19 | 119/54 | 125/36 | 165/45 | 166/20 | 258/26 | | | | |
| 42 | | | | 57/06 | 119/21 | 125/29 | 125/38 | 165/47 | 166/22 | 258/33 | | | | |
| 43 | SOQF | 6 | | 62/48 | | | | | | | | | | |
| 44 | SP | 40 | | 14/10 | D 53/22 | S 62/10 | S 111/49 | S 147/01 | S 195/37 | S 282/51 | S 322/47 | | | |
| 45 | | | | 30/53 | S 53/32 | S 62/16 | S 111/50 | S 156/35 | S 197/41 | S 282/52 | S 322/48 | S | | |
| 46 | | | | 31/18 | 53/37 | S 78/47 | S 111/52 | S 183/31 | S 197/51 | S 285/30 | S 322/51 | | | |
| 47 | | | | 31/19 | 54/36 | 92/20 | S 112/04 | S 183/32 | S 254/06 | S 285/37 | S 323/30 | | | |
| 48 | | | | 31/21 | 61/15 | S 92/39 | S 112/41 | S 183/34 | S 254/19 | S 285/39 | | | | |
| 49 | | | | 31/33 | 61/32 | S 92/41 | S 112/42 | S 187/32 | S 282/25 | S 285/41 | | | | |
| 50 | | | | 52/47 | S 61/34 | S 111/43 | S 112/45 | S 187/35 | S 282/26 | S 285/44 | | | | |
| 51 | | | | 53/08 | S 61/38 | 111/46 | 112/49 | 190/50 | 282/28 | S 285/47 | | | | |
| 52 | | | | 53/13 | S 61/44 | S 111/47 | S 146/45 | S 195/34 | S 282/30 | S 322/46 | | | | |

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| | SPCW | 106 | NOSTEXT | 20/21 22/14 28/43 | 110/52 111/17 150/43 | 156/20 160/25 161/01 | 161/03 178/56 250/49 | 252/21 252/42 254/41 | 254/57 255/02 256/02 | 256/04 257/04 257/52 | 261/04 323/18 |
| 1 | SPET | 26 | NOSTEXT | 79/52 | 79/54 | | | | | | |
| 2 | SPF | 2574 | | 33/22 | 34/08 | D | | | | | |
| 3 | SPFX | 2573 | | 34/08 | L 34/18 | | 34/27 | 34/30 | | | |
| 4 | SPF1 | 2621 | | 34/25 | 34/28 | L | | | | | |
| 5 | SPLM | 46 | NOSTEXT | 200/46 | | | | | | | |
| 6 | SPMS | 2 | | 265/23 | | | | | | | |
| 7 | SPPR | 27 | | 9/29 | D 256/28 | | 258/53 | | | | |
| 8 | SPPS | 0 | | 260/37 | S 260/47 | S | 260/53 | S | 260/55 | S | |
| 9 | SRET | 20 | NOSTEXT | 31/48 | 88/17 | | 96/07 | 101/56 | 103/25 | 104/25 | |
| 10 | | | | 35/24 | 88/17 | | 101/48 | 103/25 | 104/25 | | |
| 11 | SRJT | 4 | | 93/21 | 287/29 | | 289/06 | 289/06 | 311/56 | 314/31 | 316/04 316/05 |
| 12 | SRJW | 60 | NOSTEXT | 54/37 | 54/38 | | | | | | |
| 13 | SRUW | 51 | NOSTEXT | 31/40 | 90/52 | | 135/16 | 193/40 | 252/03 | 282/15 | 298/37 |
| 14 | | | | 34/55 | 90/54 | | 155/57 | 251/51 | 258/39 | 282/17 | 298/39 |
| 15 | | | | 34/57 | 135/10 | | 156/02 | 251/53 | 258/46 | 289/57 | |
| 16 | SSCR | 51 | | 59/56 | | | | | | | |
| 17 | SSCW | 117 | NOSTEXT | 36/17 | | | | | | | |
| 18 | SSDN | 60 | NOSTEXT | 252/26 | 261/21 | | | | | | |
| 19 | SSET | 32 | NOSTEXT | 42/29 | 87/38 | | 103/26 | 104/26 | 140/40 | | |
| 20 | | | | 87/38 | 103/26 | | 104/26 | 140/40 | | | |
| 21 | SSIS | 4 | | 259/31 | | | | | | | |
| 22 | SSIW | 50 | | 36/45 | 59/54 | | 59/56 | | | | |
| 23 | SSJD | 400000 | | 250/54 | | | | | | | |
| 24 | SSJL | 5 | NOSTEXT | 251/46 | 252/12 | | 260/31 | | | | |
| 25 | SSJN | 65 | NOSTEXT | 92/38 | 252/29 | | 261/18 | | | | |
| 26 | SSJP | 0 | | 252/14 | | | | | | | |
| 27 | SSJT | 3 | | 62/50 | | | | | | | |
| 28 | SSOW | 116 | NOSTEXT | 36/56 | | | | | | | |
| 29 | SSSC | 7 | | 42/24 | 51/23 | | 320/41 | | | | |
| 30 | SSST | 2 | | 251/29 | | | | | | | |
| 31 | SSTL | 45 | NOSTEXT | 53/26 | 127/14 | | 157/12 | 171/20 | | | |
| 32 | SSWE | 35 | | 307/41 | | | | | | | |
| 33 | STET | 27 | NOSTEXT | 103/27 | 103/27 | | 104/27 | 104/27 | | | |
| 34 | STIE | 12 | | 49/30 | 49/43 | | 49/43 | 50/15 | 50/15 | | |
| 35 | STLW | 57 | NOSTEXT | 52/11 | 90/54 | | | | | | |
| 36 | STMT | 4334 | | 146/19 | 155/21 | | 175/31 | 177/33 | 190/03 | 190/54 | 191/56 323/49 S |
| 37 | | | | 146/25 | 155/28 | S | 176/20 | 179/51 | 190/08 | 191/52 S | 192/07 323/52 S |
| 38 | | | | 146/26 | 155/32 | | 177/30 | L 184/02 | 190/43 | 191/55 S | 323/26 324/14 |
| 39 | STS | 3056 | | 33/21 | 38/25 | D | | | | | |
| 40 | STSW | 20 | NOSTEXT | 22/50 | 26/37 | | 30/44 | 34/55 | 118/47 | 225/30 | 295/33 313/22 |
| 41 | | | | 24/40 | 27/13 | | 30/46 | 69/11 | 197/34 | 254/28 | 299/02 316/49 |
| 42 | | | | 24/47 | 27/20 | | 34/53 | 69/38 | 197/36 | 255/35 | 312/44 |
| 43 | STSX | 3055 | | 38/25 | L 38/28 | | 38/31 | 38/42 | | | |
| 44 | SUJT | 1 | | 24/37 | 27/53 | | 63/06 | 63/07 | 90/05 | | |
| 45 | SUS | 1765 | | 27/11 | L 27/57 | | | | | | |
| 46 | SVET | 42 | NOSTEXT | 87/37 | 87/37 | | 88/22 | 88/22 | | | |
| 47 | SWET | 45 | NOSTEXT | 26/44 | 87/41 | | 87/41 | 88/26 | 88/26 | 118/57 | |
| 48 | SWIE | 24 | | 49/30 | 49/53 | | 49/53 | 317/21 | | | |
| 49 | SYET | 43 | NOSTEXT | 22/33 | 87/39 | | 88/24 | 103/28 | 104/28 | 118/42 | 140/37 |
| 50 | | | | 87/39 | 88/24 | | 103/28 | 104/28 | 118/40 | 140/37 | 182/04 |
| 51 | SYFO | 0 | NOSTEXT | 221/52 | | | | | | | |
| 52 | SYOT | 0 | NOSTEXT | 53/24 | 62/06 | | 73/15 | 289/53 | 293/56 | | |
| 53 | SYSDEF | 500 | | 166/49 | | | | | | | |

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| TAET | 2 | NOSTEXT | 19/07 | 79/56 | 88/09 | 103/29 | 104/29 | | | |
| | | | 32/08 | 88/09 | 103/29 | 104/29 | 122/18 | | | |
| TER | 2003 | | 23/50 | 27/46 L | 33/39 | | | | | |
| TERA | 2046 | | 28/17 D | 127/55 S | | | | | | |
| TERW | 72 | NOSTEXT | 161/03 | 161/10 | 165/49 | 166/01 | 253/41 | 253/51 | | |
| TER1 | 2021 | | 27/57 L | 28/02 | | | | | | |
| TER2 | 2024 | | 27/54 | 28/03 L | | | | | | |
| TER3 | 2031 | | 27/51 | 28/08 L | | | | | | |
| TER4 | 2037 | | 28/10 L | 28/18 | 28/22 | | | | | |
| TER5 | 2046 | | 18/44 | 28/15 L | | | | | | |
| TFSW | 72 | NOSTEXT | 34/57 | 69/43 | 180/16 | 197/38 | 197/40 | 248/22 | 300/46 | |
| TH | 72 | NOSTEXT | 39/05 | 99/42 | 239/42 | 258/30 | 293/41 | 309/06 | 309/43 | 318/43 |
| TIAW | 66 | NOSTEXT | 96/46 | 101/11 | 166/24 | 166/42 | 216/12 | | | |
| | | | 96/48 | 101/18 | 166/26 | 216/04 | | | | |
| TIET | 1 | NOSTEXT | 32/06 | 79/54 | 88/08 | 103/30 | 104/30 | 122/16 | | |
| | | | 32/08 | 79/56 | 88/08 | 103/30 | 104/30 | 122/18 | | |
| TINW | 71 | NOSTEXT | 122/13 | 123/08 | 228/13 | 228/28 | 267/35 | 267/53 | | |
| TJJT | 0 | | 63/06 | 66/46 | 72/37 | 109/51 | 316/54 | | | |
| TKET | 17 | NOSTEXT | 103/31 | 103/31 | 104/31 | 104/31 | | | | |
| TLCN | 1556 | | 21/23 | 23/04 L | | | | | | |
| TLET | 15 | NOSTEXT | 31/46 | 35/42 | 88/16 | 96/07 | 103/32 | 104/32 | 140/30 | |
| | | | 31/48 | 87/29 | 88/16 | 101/41 | 103/32 | 119/24 | | |
| | | | 35/24 | 87/29 | 96/05 | 101/48 | 104/32 | 140/30 | | |
| TNSS | 7132 | | 64/02 | 64/04 | 64/06 | 64/08 | | | | |
| TOQF | 7 | | 62/43 | 62/48 | | | | | | |
| TR | 73 | NOSTEXT | 127/31 | 156/54 | 251/43 | 261/03 | 298/57 | 324/15 | | |
| TRSI | 7772 | | 121/38 | | | | | | | |
| TRSS | 7136 | | 57/50 | | | | | | | |
| TSAF | 1114 | | 15/39 L | 38/41 S | 58/04 | 72/46 | | | | |
| TSCW | 122 | NOSTEXT | 55/01 | 55/18 | 69/44 | | | | | |
| TSEM | 113 | NOSTEXT | 25/16 | 167/26 | | | | | | |
| TSTN | 1217 | | 18/46 D | 23/46 | 38/36 S | 57/51 S | 89/57 | 109/03 | 110/09 | |
| | | | 19/13 | 24/09 | 47/41 | 58/06 S | 90/25 | 109/53 | 127/42 | |
| TTJT | 2 | | 62/45 | | | | | | | |
| TTNW | 66 | NOSTEXT | 38/33 | 58/02 | 186/19 | | | | | |
| TXOT | 3 | NOSTEXT | 38/30 | 51/20 | 57/36 | 63/04 | | | | |
| T0 | 0 | NOSTEXT | 34/17 S | 82/36 | 113/18 S | 132/31 S | 166/30 S | 175/44 S | 282/24 S | |
| | | | 34/28 | 82/42 S | 113/25 | 132/36 | 166/35 | 227/20 S | 282/29 | |
| | | | 81/54 S | 105/23 S | 116/16 S | 151/27 S | 175/30 S | 227/21 | 320/18 S | |
| | | | 82/23 S | 105/27 | 116/23 | 151/30 | 175/38 S | 227/24 | 320/34 | |

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|---------|---------|----------|----------|----------|----------|----------|----------|
| 22/44 | 69/16 S | 98/48 | 155/06 S | 175/40 | 192/49 S | 240/07 S | 274/07 S |
| 25/23 S | 69/21 S | 99/01 S | 155/21 | 175/50 S | 192/50 | 241/02 | 274/12 |
| 25/25 S | 69/24 | 99/03 S | 155/25 S | 175/51 | 193/51 S | 241/06 | 276/33 S |
| 30/51 S | 70/22 S | 99/05 S | 155/28 | 176/01 S | 193/56 | 246/53 S | 276/38 |
| 32/16 | 70/25 | 99/07 S | 155/32 | 176/03 | 194/11 | 247/02 | 282/56 S |
| 32/39 | 70/31 S | 99/19 | 155/36 | 176/05 | 197/39 S | 251/49 S | 283/31 S |
| 32/43 | 71/06 | 99/22 | 156/49 S | 176/08 | 197/49 | 252/08 | 283/34 I |
| 32/46 | 79/25 S | 99/37 | 157/04 | 176/42 S | 198/01 S | 252/13 S | 285/40 |
| 34/21 S | 79/39 | 100/21 S | 159/46 | 176/43 S | 198/19 | 252/30 | 285/48 |
| 34/24 | 79/44 S | 100/26 S | 163/21 S | 176/45 | 199/01 | 254/08 S | 286/21 S |
| 43/27 S | 81/47 | 105/25 | 163/25 I | 176/49 | 202/02 S | 254/52 | 286/38 S |
| 43/32 | 81/50 S | 109/28 S | 163/28 I | 185/56 S | 202/15 | 256/15 S | 286/55 S |
| 43/49 | 81/51 S | 109/32 | 163/29 S | 185/57 | 217/49 | 256/24 S | 287/06 S |
| 43/52 | 81/57 | 116/12 S | 163/52 S | 186/03 | 217/52 | 256/29 | 287/09 |
| 47/19 S | 82/40 | 116/20 | 164/02 | 187/05 | 222/09 S | 256/31 | 287/11 |
| 47/27 | 84/47 S | 116/57 S | 166/05 S | 190/04 S | 222/11 | 257/47 S | 287/35 S |
| 47/30 S | 85/14 S | 121/21 S | 166/09 | 190/06 I | 223/19 | 257/57 | 294/54 S |
| 47/31 | 85/18 | 121/22 S | 167/35 S | 190/07 S | 223/26 | 258/48 S | 294/56 S |
| 47/38 | 85/26 | 121/23 | 167/37 S | 190/37 S | 223/28 | 258/54 | 294/57 |
| 48/20 | 85/33 | 137/05 | 167/54 S | 190/43 | 229/25 S | 259/15 S | 295/04 |
| 48/48 | 91/10 S | 138/03 S | 168/02 | 191/34 S | 229/27 | 259/39 | 295/07 |
| 53/48 S | 91/12 | 138/14 | 170/44 S | 191/52 | 231/14 S | 260/32 S | 295/10 |
| 59/22 S | 94/55 S | 138/16 | 170/50 | 191/57 S | 231/36 S | 261/14 | 310/21 S |
| 59/23 | 95/53 | 139/02 S | 171/16 S | 192/01 S | 232/25 | 261/22 | 310/25 S |
| 61/33 | 97/12 | 139/12 | 171/28 | 192/02 | 233/26 | 267/39 S | 310/29 |
| 61/35 | 97/37 | 139/15 | 171/40 | 192/05 I | 233/28 S | 268/53 | 310/43 S |
| 61/39 | 98/26 S | 139/54 S | 172/54 S | 192/06 S | 233/42 | 269/08 | 310/56 |
| 61/40 | 98/29 S | 139/56 | 173/03 | 192/41 S | 235/30 | 272/07 S | 311/03 |
| 63/46 S | 98/31 S | 140/14 | 175/32 S | 192/42 S | 239/03 | 272/12 | 311/14 S |
| 66/29 S | 98/35 | 154/36 S | 175/33 S | 192/43 | 239/05 S | 273/09 | 324/11 S |
| 66/44 | 98/43 S | 154/42 | 175/34 | 192/48 | 240/05 | 273/12 | 324/14 |

T2 2 NOSTEXT

| | | | | | | | |
|---------|----------|----------|----------|----------|----------|----------|----------|
| 22/42 | 83/05 | 132/43 | 190/28 | 218/03 | 233/27 | 254/04 S | 274/40 |
| 47/32 S | 84/48 | 132/47 S | 193/32 S | 218/06 | 233/33 | 254/11 | 274/47 |
| 47/34 | 85/01 | 132/52 | 201/06 | 218/09 | 235/32 | 254/22 | 274/49 |
| 64/45 S | 85/01 | 146/22 S | 201/11 | 218/16 S | 237/23 S | 257/53 S | 274/51 |
| 64/52 | 97/14 | 146/25 | 201/47 S | 218/21 | 237/29 | 258/09 | 274/53 |
| 64/54 | 97/39 | 155/11 | 201/54 S | 218/35 | 238/50 | 267/43 S | 275/05 |
| 69/18 S | 100/23 S | 156/22 S | 202/08 | 218/37 | 238/52 | 268/57 | 275/33 |
| 69/22 S | 100/24 S | 156/29 | 202/11 | 230/31 S | 238/56 | 269/12 | 284/31 S |
| 69/26 | 100/33 | 158/26 | 202/18 S | 230/56 S | 239/01 | 273/06 S | 284/42 |
| 70/24 S | 100/38 I | 158/31 | 212/26 S | 231/23 S | 239/04 | 273/17 | 310/17 S |
| 70/28 S | 116/49 S | 158/36 S | 212/38 | 231/30 | 240/01 S | 273/20 | 310/37 S |
| 71/01 | 117/02 | 159/03 | 214/46 S | 232/47 S | 240/03 | 273/23 | 311/12 S |
| 82/49 S | 132/25 S | 159/05 S | 215/13 S | 233/01 | 240/06 | 273/26 | |
| 82/51 S | 132/26 | 159/48 | 215/21 | 233/11 | 240/50 | 273/33 S | |
| 82/52 | 132/32 | 168/50 S | 217/28 S | 233/13 | 241/01 | 273/43 | |
| 82/56 | 132/37 | 169/03 | 217/46 S | 233/15 | 241/07 S | 273/48 | |
| 83/02 | 132/38 | 190/20 S | 217/57 | 233/20 | 241/15 S | 274/38 | |

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|------|------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| T3 | 3 | NOSTEXT | 21/24 S | 91/08 S | 132/41 I | 176/13 S | 214/15 | 230/57 | 236/41 | 268/13 S |
| | | | 21/26 S | 91/12 | 132/42 S | 176/17 I | 214/34 | 231/02 | 236/44 | 268/28 |
| | | | 21/27 | 97/33 S | 132/45 I | 179/35 S | 214/40 | 231/05 | 237/11 | 268/30 S |
| | | | 21/31 | 97/36 | 132/46 S | 179/36 | 214/43 | 231/13 S | 237/14 | 268/36 |
| | | | 64/47 S | 97/40 | 132/50 I | 196/33 | 214/53 | 231/21 | 237/24 | 268/42 |
| | | | 64/48 | 107/07 S | 168/52 S | 196/35 S | 217/30 S | 231/25 | 238/46 | 268/43 |
| | | | 64/51 I | 107/10 S | 168/56 | 196/38 | 217/48 S | 231/35 S | 239/02 S | 273/08 S |
| | | | 65/01 I | 108/03 | 169/02 I | 196/40 S | 217/50 | 232/30 | 240/04 S | 273/10 |
| | | | 65/02 | 126/46 S | 169/07 I | 196/47 | 218/14 S | 233/41 S | 240/17 | 273/31 S |
| | | | 84/52 | 126/50 | 169/08 | 201/03 | 223/13 | 236/04 | 240/20 | 284/39 S |
| | | | 90/55 S | 126/53 S | 175/26 S | 201/13 | 230/30 | 236/13 | 241/10 S | 284/46 |
| | | | 90/56 | 128/13 S | 175/49 S | 201/48 S | 230/32 | 236/22 | 247/04 S | |
| | | | 91/02 | 128/16 S | 175/52 I | 201/55 S | 230/47 | 236/27 | 266/05 S | |
| | | | 91/04 S | 128/35 S | 176/02 S | 202/13 | 230/50 | 236/37 | 266/06 | |
| | | | 91/06 S | 132/23 S | 176/07 I | 202/16 S | 230/53 | 236/39 | 266/09 | |
| T4 | 4 | NOSTEXT | 126/27 S | 128/38 S | 283/55 | 290/09 | 290/53 | 296/20 | 310/52 | |
| | | | 126/49 S | 201/40 S | 284/09 S | 290/14 S | 291/01 S | 296/25 | | |
| | | | 126/55 | 201/52 S | 289/45 S | 290/48 S | 291/08 S | 296/28 S | | |
| | | | 127/05 S | 224/15 | 289/48 | 290/51 | 291/23 S | 310/47 S | | |
| T5 | 5 | NOSTEXT | 61/25 | 128/31 S | 212/28 S | 245/37 | 275/43 S | 287/16 S | 292/31 | 316/12 S |
| | | | 73/25 S | 128/39 | 221/57 S | 245/40 | 277/22 | 289/56 S | 293/27 S | |
| | | | 73/26 | 151/10 S | 234/36 | 246/49 | 283/57 S | 289/57 | 295/30 | |
| | | | 126/48 S | 169/38 | 235/17 S | 247/15 | 284/01 | 290/02 S | 308/20 | |
| | | | 127/06 | 207/29 S | 243/27 S | 265/15 | 284/03 | 291/11 S | 312/53 S | |
| | | | 128/20 S | 207/34 S | 245/32 S | 272/24 S | 284/06 | 291/13 | 313/19 | |
| T6 | 6 | NOSTEXT | 50/51 | 107/28 | 138/54 | 213/46 | 224/25 | 271/56 | 276/06 S | |
| | | | 61/22 | 107/46 | 139/05 | 216/49 S | 243/29 S | 272/40 S | 276/14 | |
| | | | 92/43 | 136/49 S | 139/52 S | 217/03 S | 245/51 S | 274/39 S | 287/18 S | |
| | | | 107/13 | 136/56 | 213/06 S | 218/42 S | 246/07 S | 274/42 | 316/14 S | |
| | | | 107/15 S | 137/25 | 213/35 S | 222/03 S | 271/51 S | 275/51 | | |
| T7 | 7 | NOSTEXT | 50/53 | 107/31 | 139/01 | 213/04 S | 217/01 S | 246/05 S | 272/42 S | |
| | | | 56/15 S | 107/49 | 139/07 | 213/37 S | 222/05 S | 246/09 | 274/41 S | |
| | | | 61/19 S | 136/53 S | 139/50 S | 213/40 | 224/27 | 254/18 S | 275/54 | |
| | | | 73/46 S | 137/01 | 156/50 S | 213/43 | 243/31 S | 254/25 | 276/03 | |
| | | | 107/17 | 137/27 | 157/06 | 216/51 S | 245/49 S | 254/34 | 276/17 | |
| T8 | 16 | | 14/04 D | 37/04 S | 85/32 | 219/10 | 317/01 S | 317/14 | 317/24 | |
| | | | 36/26 S | 84/50 S | 85/32 | 220/47 | 317/06 | 317/17 | | |
| | | | 36/51 S | 85/23 | 204/49 | 316/40 S | 317/11 | 317/20 S | | |
| T9 | 17 | | 14/05 D | 15/20 | 16/26 | 16/28 | 64/56 | 85/25 | 169/05 | |
| | | | 15/19 S | 16/25 S | 16/27 S | 64/49 S | 84/53 S | 168/57 S | | |
| UADM | 114 | NOSTEXT | 129/42 | 131/48 | 187/44 | 224/44 | 255/27 | 304/37 | | |
| UCIE | 22 | | 49/30 | 49/51 | 49/51 | | | | | |
| UCTM | 2 | | 46/04 | 133/35 | | | | | | |
| UEML | 120 | NOSTEXT | 53/17 | | | | | | | |
| UIDS | 1 | | 92/38 | 252/33 | 261/01 S | | | | | |
| UIDW | 70 | NOSTEXT | 48/35 | 59/33 | 252/32 | 260/57 | 261/32 | | | |
| | | | 57/28 | 92/19 | 252/34 | 261/02 | 261/34 | | | |
| UJNI | 300 | | 149/50 | 164/33 | 179/07 | 181/28 | 181/38 | 181/42 | 273/46 | |
| | | | 151/04 | 174/29 | 179/15 | 181/33 | 181/40 | 198/09 | | |
| UNIE | 17 | | 49/30 | 49/48 | 49/48 | | | | | |
| UPST | 1 | | 149/37 | 149/39 | 266/01 | | | | | |
| USIE | 21 | | 49/30 | 49/50 | 49/50 | | | | | |
| UTEM | 115 | NOSTEXT | 22/30 | 65/39 | 133/32 | 297/54 | 315/28 | | | |
| VASS | 7303 | | 42/43 | 51/30 | 54/17 | 55/27 S | 55/34 | | | |
| | | | 51/15 | 53/49 | 55/23 S | 55/29 | | | | |
| VFLM | 116 | NOSTEXT | 127/21 | | | | | | | |
| VFPM | 117 | NOSTEXT | 267/55 | | | | | | | |

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|----|-------|------|---------|--------|--------|--------|--------|--------|--------|--------|
| | VLIE | 15 | | 49/30 | 49/46 | 49/46 | 50/18 | 50/18 | | |
| | WISE | 0 | | 67/11 | | | | | | |
| | WRES | 1 | | 232/54 | | | | | | |
| 1 | XCS | 2056 | | 17/27 | 18/56 | 28/04 | 28/39 | L | | |
| 2 | XJPR | 66 | | 9/29 | D | | | | | |
| 3 | ZAUL | 1200 | | 177/37 | 299/44 | | | | | |
| 4 | ZAVL | 1250 | | 113/29 | | | | | | |
| 5 | ZDFL | 601 | | 115/14 | 253/02 | 266/29 | 299/45 | 319/04 | | |
| 6 | ZDQL | 500 | | 319/05 | | | | | | |
| 7 | ZERL | 66 | NOSTEXT | 21/53 | 50/57 | 63/32 | 105/55 | 145/38 | 163/18 | 236/55 |
| 8 | | | | 22/11 | 52/43 | 69/19 | 109/55 | 150/40 | 166/06 | 252/10 |
| 9 | | | | 22/22 | 55/39 | 70/12 | 119/29 | 153/24 | 167/24 | 256/46 |
| 10 | | | | 25/14 | 56/14 | 70/55 | 120/57 | 156/51 | 173/38 | 256/56 |
| 11 | | | | 28/40 | 56/56 | 71/35 | 127/38 | 158/21 | 184/52 | 258/11 |
| 12 | | | | 35/26 | 57/48 | 97/08 | 130/43 | 159/10 | 190/10 | 282/12 |
| 13 | | | | 37/54 | 59/50 | 98/42 | 133/22 | 159/53 | 193/18 | 285/50 |
| 14 | | | | 39/05 | 61/14 | 99/24 | 137/31 | 162/50 | 226/53 | 306/43 |
| 15 | ZJNI | 400 | | 152/17 | 262/22 | | | | | |
| 16 | ZRFL | 500 | | 319/06 | | | | | | |
| 17 | ZSTL | 1700 | | 30/04 | | | | | | |
| 18 | (TCS) | 0 | | 20/49 | D | 28/47 | D | | | |
| 19 | (0AU) | 0 | | 156/16 | D | 298/46 | D | 299/09 | D | |
| 20 | (0AV) | 0 | | 92/42 | D | | | | | |
| 21 | (0DF) | 0 | | 115/11 | D | 251/33 | D | 265/13 | D | 295/28 |
| 22 | (0DQ) | 0 | | 312/16 | D | | | | | 307/20 |
| 23 | (0RF) | 0 | | 318/26 | D | | | | | |
| 24 | (0ST) | 0 | | 26/49 | D | | | | | |
| 25 | (1AJ) | 0 | | 161/12 | D | | | | | |
| 26 | (1RI) | 0 | | 257/25 | D | | | | | |
| 27 | (1RJ) | 0 | | 169/45 | D | 234/53 | D | 265/36 | D | 277/38 |
| 28 | (1RO) | 0 | | 24/49 | D | 255/28 | D | | | 292/36 |
| 29 | (3AA) | 0 | | 16/24 | D | | | | | 308/25 |
| 30 | (3AB) | 0 | | 25/40 | D | | | | | |
| 31 | (3AC) | 0 | | 145/36 | D | | | | | |
| 32 | (3AD) | 0 | | 207/50 | D | | | | | |
| 33 | (3AE) | 0 | | 22/03 | D | 149/56 | D | 150/47 | D | 205/15 |
| 34 | (3AF) | 0 | | 18/38 | D | 21/16 | D | 155/51 | D | 170/20 |
| 35 | | | | 20/36 | D | 22/46 | D | 157/32 | D | 178/50 |
| 36 | (3AG) | 0 | | 26/07 | D | | | | | 323/37 |
| 37 | (3AH) | 0 | | 156/46 | D | | | | | |
| 38 | (3AI) | 0 | | 148/24 | D | | | | | |
| 39 | (3AJ) | 0 | | 28/03 | D | | | | | |
| 40 | (3AK) | 0 | | 28/09 | D | | | | | |
| 41 | (3AL) | 0 | | 87/14 | D | 88/52 | D | | | |
| 42 | (3AM) | 0 | | 165/04 | D | 210/06 | D | | | |
| 43 | (3AN) | 0 | | 79/41 | D | | | | | |
| 44 | .DLY | 255 | NOSTEXT | 25/24 | 127/26 | 167/36 | 254/27 | 299/01 | 316/48 | |
| 45 | .EJT | 2174 | | 33/03 | 37/28 | 65/30 | 73/22 | 293/33 | 297/29 | 315/24 |
| 46 | | | | 35/05 | 57/38 | 72/18 | 133/26 | 293/46 | 298/30 | 320/36 |
| 47 | .EMS | 535 | NOSTEXT | 42/26 | 213/42 | 222/10 | 234/29 | 247/17 | 287/25 | |
| 48 | | | | 61/55 | 214/03 | 224/18 | 245/55 | 272/50 | 314/53 | |
| 49 | | | | 169/31 | 215/15 | 232/27 | 246/51 | 273/38 | 316/23 | |
| 50 | .EST | 245 | NOSTEXT | 92/21 | 212/29 | 266/03 | 275/45 | 310/29 | | |
| 51 | | | | 149/27 | 238/16 | 272/25 | 294/44 | | | |
| 52 | .FNT | 2202 | | 306/40 | | | | | | |
| 53 | .QFT | 2210 | | 314/40 | 314/54 | | | | | |

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.SMS 475 NOSTEXT 73/39 222/06 245/27 272/38 314/50
 213/15 243/33 245/45 287/20 316/16

SYMBOL QUALIFIER = IJB

| | | | | | | | | | |
|----|--------|------|---------|---------|---------|-------|-------|-------|-------|
| 7 | ACS | 4645 | 63/48 | 63/56 | 64/01 | 64/12 | 64/14 | 64/18 | 64/20 |
| 8 | AFL | 6322 | 70/11 D | 72/54 | | | | | |
| 9 | AFLX | 6321 | 70/11 L | 71/46 | | | | | |
| 10 | AFL1 | 6334 | 70/16 | 70/20 L | | | | | |
| 11 | AIF | 2576 | 43/01 | 47/18 D | | | | | |
| 12 | AIFX | 2575 | 47/18 L | 47/42 | 47/57 | | | | |
| 13 | AIF1 | 2616 | 47/21 | 47/31 L | | | | | |
| 14 | AIF2 | 2624 | 47/33 | 47/38 L | | | | | |
| 15 | AIF3 | 2631 | 47/39 | 47/41 L | | | | | |
| 16 | ASSI | 7753 | 60/26 | 60/26 | | | | | |
| 17 | ATSI | 7747 | 60/26 | 60/26 | | | | | |
| 18 | BCS | 4072 | 56/52 | 59/28 | 61/13 D | | | | |
| 19 | BCSX | 4071 | 61/13 L | 62/19 | | | | | |
| 20 | BCS1 | 4140 | 61/36 | 61/43 L | | | | | |
| 21 | BCS2 | 4144 | 61/42 | 61/50 L | 61/54 | | | | |
| 22 | BCS2.1 | 4150 | 61/30 | 61/52 L | | | | | |
| 23 | BCS3 | 4153 | 61/45 | 61/55 L | | | | | |
| 24 | BCS4 | 4160 | 61/52 | 62/01 L | | | | | |
| 25 | BCS5 | 4162 | 61/57 | 62/05 L | | | | | |
| 26 | BCS6 | 4171 | 62/07 | 62/14 L | | | | | |
| 27 | BISI | 7761 | 60/26 | 60/26 | | | | | |
| 28 | CCA | 3024 | 42/38 | 50/47 D | | | | | |
| 29 | CCAA | 3503 | 51/07 | 55/53 L | 58/29 S | | | | |
| 30 | CCAX | 3023 | 50/47 L | 55/50 | | | | | |
| 31 | CCA0 | 3074 | 51/24 | 51/27 L | | | | | |
| 32 | CCA1 | 3100 | 51/21 | 51/30 L | | | | | |
| 33 | CCA10 | 3325 | 53/54 | 54/08 L | | | | | |
| 34 | CCA11 | 3335 | 54/10 | 54/17 L | | | | | |
| 35 | CCA12 | 3353 | 54/23 | 54/30 L | | | | | |
| 36 | CCA13 | 3501 | 55/42 | 55/50 L | | | | | |
| 37 | CCA2 | 3115 | 51/35 | 51/39 L | | | | | |
| 38 | CCA3 | 3117 | 51/37 | 51/40 L | | | | | |
| 39 | CCA4 | 3132 | 51/48 | 51/52 L | | | | | |
| 40 | CCA5 | 3133 | 51/28 | 51/50 | 51/53 L | | | | |
| 41 | CCA5.0 | 3140 | 51/54 | 51/56 L | | | | | |
| 42 | CCA5.1 | 3155 | 51/25 | 52/10 L | | | | | |
| 43 | CCA6 | 3206 | 52/24 | 52/33 L | | | | | |
| 44 | CCA7 | 3230 | 52/52 L | 53/01 | | | | | |
| 45 | CCA8 | 3253 | 53/12 | 53/14 L | | | | | |
| 46 | CCA9 | 3277 | 53/16 | 53/25 | 53/33 L | | | | |
| 47 | CCP | 6254 | 69/10 D | 72/42 | | | | | |
| 48 | CCPA | 6307 | 69/24 | 69/35 L | 69/45 | | | | |
| 49 | CCPAL | 12 | 69/15 | 69/45 D | | | | | |
| 50 | CCPX | 6253 | 69/10 L | 69/23 | | | | | |
| 51 | CCP1 | 6255 | 69/11 L | 69/14 | | | | | |
| 52 | CCP2 | 6275 | 69/21 L | 69/25 | | | | | |
| 53 | CCP3 | 6276 | 69/22 L | 69/29 | | | | | |
| 54 | CDD | 3511 | 49/01 | 49/09 | 56/12 D | | | | |

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|----|--------|--------|-------|---|-------|-------|-------|---|-------------------------------|
| | CDDX | 3510 | 56/12 | L | 56/29 | | | | |
| | CDSI | 7766 | 60/26 | | 60/26 | | | | |
| | CMI\$ | 1 | 68/24 | D | | | | | |
| 1 | CMX | 4670 | 53/50 | | | | | | |
| 2 | C1SI | 7746 | 60/26 | | 60/26 | | | | |
| 3 | C2D | 5143 | 48/23 | | | | | | |
| 4 | DFBA | 777777 | 41/21 | D | 44/21 | 54/33 | 54/50 | | |
| 5 | DFBJ | 777777 | 41/20 | D | 44/29 | 54/32 | | | |
| 6 | DFCP | 100 | 41/18 | D | 44/37 | | | | |
| 7 | DFIJ | 777777 | 41/19 | D | | | | | |
| 8 | DFSL | 500 | 41/23 | D | 51/47 | 51/49 | 51/52 | | |
| 9 | DFSO | 777777 | 41/22 | D | 54/32 | 54/33 | | | |
| 10 | DFVL | 7777 | 41/17 | D | 44/45 | | | | |
| 11 | DSSI | 7777 | 43/24 | | | | | | |
| 12 | ECI\$ | 1 | 68/25 | D | | | | | |
| 13 | ECX | 5156 | 54/19 | | | | | | |
| 14 | EOJ | 4201 | 54/30 | | 62/33 | D | | | |
| 15 | EOJX | 4200 | 62/33 | L | 63/15 | | | | |
| 16 | EOJ1 | 4212 | 62/39 | | 62/43 | L | | | |
| 17 | EOJ1.1 | 4216 | 62/44 | | 62/48 | L | | | |
| 18 | EOJ2 | 4222 | 62/37 | | 62/49 | | 62/53 | L | |
| 19 | EOJ3 | 4223 | 62/41 | | 62/46 | | 62/51 | | 62/54 L |
| 20 | EOJ4 | 4233 | 63/05 | | 63/07 | L | | | |
| 21 | IAM | 4250 | 57/16 | | 59/31 | | 63/31 | D | |
| 22 | IAMA | 4365 | 63/47 | | 64/28 | L | | | |
| 23 | IAMB | 4371 | 63/57 | | 64/13 | | 64/29 | L | |
| 24 | IAMC | 4373 | 64/19 | | 64/30 | L | | | |
| 25 | IAMX | 4247 | 63/31 | L | 63/39 | | 64/25 | | |
| 26 | IAM1 | 4307 | 63/52 | | 63/55 | L | | | |
| 27 | IFSI | 7776 | 59/06 | | 60/26 | | | | |
| 28 | IJB | 2301 | 42/19 | D | | | | | |
| 29 | IJBA | 2370 | 43/03 | S | 43/15 | D | | | |
| 30 | IJBB | 2460 | 44/21 | L | 51/57 | S | 52/06 | S | 52/12 |
| 31 | IJBC | 2465 | 44/29 | L | 52/01 | S | 52/04 | S | 54/40 |
| 32 | IJBD | 2472 | 44/37 | L | 52/26 | S | 52/29 | S | 54/41 |
| 33 | IJBE | 2477 | 44/45 | L | 51/18 | S | 51/27 | | 51/46 54/42 73/04 |
| 34 | IJBF | 2504 | 44/53 | L | 73/06 | | | | |
| 35 | IJBH | 2511 | 45/04 | L | | | | | |
| 36 | IJBI | 2516 | 45/12 | L | 73/08 | | | | |
| 37 | IJBK | 2523 | 45/20 | L | 73/10 | | | | |
| 38 | IJBK | 2530 | 45/34 | L | 52/14 | | | | |
| 39 | IJBL | 2535 | 43/10 | | 44/09 | S | 44/10 | S | 44/11 45/42 L 58/08 S 58/10 S |
| 40 | IJBM | 2561 | 46/09 | L | 54/51 | | 54/53 | | 54/55 |
| 41 | IJBN | 2570 | 46/22 | L | 73/18 | | | | |
| 42 | IJBP | 2363 | 43/12 | D | 73/36 | S | | | |
| 43 | IJBX | 2300 | 40/02 | | 42/19 | L | 43/16 | | |
| 44 | IJB10 | 2430 | 43/34 | | 43/39 | | 43/49 | L | |
| 45 | IJB3 | 2312 | 42/23 | | 42/26 | L | | | |
| 46 | IJB3.0 | 2320 | 42/28 | | 42/31 | L | | | |
| 47 | IJB3.1 | 2323 | 42/30 | | 42/33 | L | | | |
| 48 | IJB4 | 2330 | 42/25 | | 42/36 | L | | | |
| 49 | IJB5 | 2333 | 42/32 | | 42/38 | L | | | |
| 50 | IJB6 | 2360 | 42/37 | | 42/52 | | 43/02 | L | 66/48 73/37 |
| 51 | IJB7 | 2363 | 43/10 | L | 43/20 | | 43/50 | | |
| 52 | IJB8 | 2373 | 42/57 | | 43/18 | L | | | |
| 53 | IJB9 | 2406 | 43/23 | | 43/26 | L | | | |
| 54 | IJFL | 276 | 41/26 | D | 54/09 | | 54/11 | | |

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|----|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | ISD | 4400 | 57/12 | 59/30 | 64/44 | D | | | | | | | | | | | | | | |
| | ISDX | 4377 | 64/44 | L | 64/53 | 64/57 | 65/05 | | | | | | | | | | | | | |
| | IUT | 4427 | 43/13 | 44/12 | 65/24 | D | 66/35 | | | | | | | | | | | | | |
| 1 | IUTA | 4450 | 65/25 | S | 65/38 | D | | | | | | | | | | | | | | |
| 2 | IUTX | 4426 | 65/24 | L | 65/41 | | | | | | | | | | | | | | | |
| 3 | IUT1 | 4451 | 65/35 | | 65/39 | L | | | | | | | | | | | | | | |
| 4 | I1SI | 7774 | 60/26 | | 60/26 | | | | | | | | | | | | | | | |
| 5 | I2SI | 7773 | 60/26 | | 60/26 | | | | | | | | | | | | | | | |
| 6 | LSSI | 7745 | 43/19 | 59/17 | 59/39 | 60/27 | | | | | | | | | | | | | | |
| 7 | MBUF | 6252 | 63/45 | 64/21 | 64/23 | 68/40 | L | | | | | | | | | | | | | |
| 8 | MCSI | 7765 | 60/26 | 60/26 | | | | | | | | | | | | | | | | |
| 9 | MFSI | 7763 | 60/26 | 60/26 | | | | | | | | | | | | | | | | |
| 10 | MPSI | 7771 | 60/26 | 60/26 | | | | | | | | | | | | | | | | |
| 11 | MSR | 4460 | 62/01 | 66/27 | D | 73/49 | | | | | | | | | | | | | | |
| 12 | MSRA | 4520 | 66/44 | 66/53 | L | | | | | | | | | | | | | | | |
| 13 | MSRB | 4522 | 66/54 | 67/02 | L | | | | | | | | | | | | | | | |
| 14 | MSRC | 4545 | 66/55 | 67/03 | L | | | | | | | | | | | | | | | |
| 15 | MSRD | 4560 | 66/34 | 67/07 | L | 67/31 | 73/27 | S | | | | | | | | | | | | |
| 16 | MSRDL | 4 | 66/34 | 67/31 | D | | | | | | | | | | | | | | | |
| 17 | MSRX | 4457 | 66/27 | L | | | | | | | | | | | | | | | | |
| 18 | MSR1 | 4507 | 66/30 | 66/33 | 66/44 | L | | | | | | | | | | | | | | |
| 19 | MSSI | 7756 | 43/25 | 60/26 | 60/26 | | | | | | | | | | | | | | | |
| 20 | MTSI | 7760 | 60/26 | 60/26 | | | | | | | | | | | | | | | | |
| 21 | MXSI | 7776 | 43/21 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 |
| 22 | | | 43/24 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 |
| 23 | | | 43/25 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 |
| 24 | | | 59/19 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 |
| 25 | | | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/27 |
| 26 | | | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 |
| 27 | | | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 | 60/26 |
| 28 | NFL | 5211 | 66/38 | | | | | | | | | | | | | | | | | |
| 29 | NJSI | 7751 | 60/26 | 60/26 | | | | | | | | | | | | | | | | |
| 30 | NMSI | 7770 | 60/26 | 60/26 | | | | | | | | | | | | | | | | |
| 31 | NVSI | 7767 | 60/26 | 60/26 | | | | | | | | | | | | | | | | |
| 32 | PBC | 2702 | 48/47 | D | 49/18 | 50/13 | | | | | | | | | | | | | | |
| 33 | PBCA | 2727 | 48/50 | S | 49/04 | D | | | | | | | | | | | | | | |
| 34 | PBCB | 2732 | 48/52 | S | 49/07 | D | | | | | | | | | | | | | | |
| 35 | PBCC | 2741 | 48/54 | S | 49/12 | D | | | | | | | | | | | | | | |
| 36 | PBCD | 2744 | 48/56 | S | 49/15 | D | | | | | | | | | | | | | | |
| 37 | PBCX | 2701 | 48/47 | L | 49/16 | | | | | | | | | | | | | | | |
| 38 | PFC | 4605 | 54/31 | | 67/50 | D | | | | | | | | | | | | | | |
| 39 | PFCX | 4604 | 67/50 | L | 67/56 | 68/11 | | | | | | | | | | | | | | |
| 40 | PFC1 | 4615 | 67/53 | | 68/03 | L | | | | | | | | | | | | | | |
| 41 | PHD | 2702 | 49/18 | D | 50/14 | | | | | | | | | | | | | | | |
| 42 | PIR | 6642 | 72/48 | | 73/54 | D | | | | | | | | | | | | | | |
| 43 | PIRX | 6641 | 73/54 | L | 73/54 | 73/54 | | | | | | | | | | | | | | |
| 44 | PIR1 | 6663 | 73/54 | | 73/54 | L | | | | | | | | | | | | | | |
| 45 | PIR\$ | 1 | 68/22 | D | | | | | | | | | | | | | | | | |
| 46 | PJB | 6460 | 42/20 | | 72/17 | D | | | | | | | | | | | | | | |
| 47 | PJBX | 6457 | 72/17 | L | 73/52 | | | | | | | | | | | | | | | |
| 48 | PJB1 | 6476 | 72/25 | | 72/29 | L | | | | | | | | | | | | | | |
| 49 | PJB1.1 | 6524 | 72/47 | | 72/54 | L | | | | | | | | | | | | | | |
| 50 | PJB2 | 6553 | 73/16 | | 73/22 | L | | | | | | | | | | | | | | |
| 51 | PJB3 | 6573 | 73/30 | | 73/39 | L | | | | | | | | | | | | | | |
| 52 | PJB4 | 6605 | 73/42 | | 73/45 | L | | | | | | | | | | | | | | |
| 53 | PJB5 | 6614 | 73/48 | | 73/52 | L | | | | | | | | | | | | | | |
| 54 | PJC | 2673 | 48/33 | D | 50/12 | 50/15 | 50/16 | 50/17 | 50/18 | 50/19 | | | | | | | | | | |

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|----|-------|------|---------|---------|---------|---------|---------|-------|-------|--|
| | PJCX | 2672 | 48/33 L | 48/37 | | | | | | |
| | PLSI | 7750 | 60/26 | 60/26 | | | | | | |
| | PNS | 3536 | 42/36 | 56/51 D | | | | | | |
| 1 | PNSX | 3535 | 56/51 L | 57/46 | 58/30 | | | | | |
| 2 | PNS2 | 3612 | 57/37 | 57/46 L | 58/12 | | | | | |
| 3 | PNS3 | 3614 | 57/45 | 57/48 L | | | | | | |
| 4 | PNS4 | 3652 | 58/05 | 58/16 L | | | | | | |
| 5 | PRR | 6617 | 73/54 D | 73/54 | | | | | | |
| 6 | PRRX | 6616 | 73/54 L | 73/54 | 73/54 | | | | | |
| 7 | PRR\$ | 1 | 68/21 D | | | | | | | |
| 8 | PSS | 3676 | 42/31 | 58/55 D | | | | | | |
| 9 | PSSX | 3675 | 58/55 L | 59/14 | | | | | | |
| 10 | PSS1 | 3713 | 59/05 | 59/08 L | | | | | | |
| 11 | PSS2 | 3722 | 59/12 | 59/16 L | | | | | | |
| 12 | PSS3 | 3742 | 59/18 | 59/28 L | | | | | | |
| 13 | PSS4 | 3775 | 59/42 | 59/50 L | | | | | | |
| 14 | PSS5 | 4005 | 59/40 | 59/48 | 60/01 L | | | | | |
| 15 | PSS6 | 3674 | 58/53 L | 59/24 | 60/01 | | | | | |
| 16 | PUA | 2660 | 48/19 D | 50/20 | | | | | | |
| 17 | PUAX | 2657 | 48/19 L | 48/25 | | | | | | |
| 18 | RBSI | 7762 | 60/26 | 60/26 | | | | | | |
| 19 | RCS | 5235 | 61/56 | | | | | | | |
| 20 | RDSI | 7764 | 59/04 | 60/26 | 60/26 | | | | | |
| 21 | RFSI | 7775 | 60/26 | 60/26 | | | | | | |
| 22 | RNS | 5470 | 61/29 | 61/51 | | | | | | |
| 23 | RRR | 4775 | 47/56 | 58/27 | | | | | | |
| 24 | RRRA | 4776 | 73/54 | 73/54 S | | | | | | |
| 25 | RRRB | 5021 | 73/54 S | | | | | | | |
| 26 | RRRC | 5024 | 73/54 S | | | | | | | |
| 27 | RRRX | 4774 | 73/54 | | | | | | | |
| 28 | RSS | 6676 | 73/47 | | | | | | | |
| 29 | SBUF | 6253 | 61/28 | 61/39 | 61/50 | 68/42 L | 68/47 | | | |
| 30 | SLI | 5077 | 51/16 | | | | | | | |
| 31 | SLI\$ | 1 | 68/26 D | | | | | | | |
| 32 | SMSI | 7755 | 60/26 | 60/26 | | | | | | |
| 33 | SRR | 4751 | 47/43 | 58/16 | | | | | | |
| 34 | SRRR | 4752 | 73/54 | 73/54 S | | | | | | |
| 35 | SRRX | 4750 | 73/54 | | | | | | | |
| 36 | SSSI | 7754 | 60/26 | 60/26 | | | | | | |
| 37 | STA | 5517 | 58/17 | | | | | | | |
| 38 | STMT | 6253 | 57/11 | 59/29 | 68/41 L | | | | | |
| 39 | STSI | 7757 | 60/26 | 60/26 | | | | | | |
| 40 | SUB\$ | 1 | 41/37 D | | | | | | | |
| 41 | TA | 57 | 41/05 D | 73/54 S | 73/54 S | | | | | |
| 42 | TAIM | 2747 | 47/38 | 48/20 | 48/48 | 49/33 L | 49/33 | | | |
| 43 | TAIML | 24 | 49/30 D | 49/54 | 49/54 | 49/55 | 50/09 | | | |
| 44 | TAIP | 2775 | 47/31 | 50/11 L | 50/11 | | | | | |
| 45 | TAIPL | 24 | 47/20 | 47/29 | 50/09 D | 50/20 | 50/20 | 50/21 | | |
| 46 | TLI | 5130 | 51/31 | | | | | | | |
| 47 | TLI\$ | 1 | 68/27 D | | | | | | | |
| 48 | TLSI | 7752 | 60/26 | 60/26 | | | | | | |
| 49 | TN | 37 | 41/04 D | 57/53 S | | | | | | |
| 50 | TRSI | 7772 | 60/26 | 60/26 | | | | | | |
| 51 | TSPP | 4007 | 43/32 | 43/49 | 43/52 | 59/23 | 60/25 L | 60/25 | | |
| 52 | TT | 65 | 41/06 D | 47/44 | 47/46 | 47/51 | 47/53 | 58/22 | 58/24 | |
| 53 | VCPT | 1 | 41/24 D | | | | | | | |
| 54 | .IJFL | 276 | 41/25 D | 41/26 | | | | | | |

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.I0 0 73/39 D 73/39
.4 5205 74/15 D 74/20

SYMBOL QUALIFIER = PEF

| | | | | | | | | | |
|--------|------|----------|----------|----------|----------|----------|--------|--------|--|
| CCO | 4437 | 82/45 | 85/57 | 105/19 D | | | | | |
| CCOA | 4545 | 81/42 | 84/38 | 85/41 | 105/20 S | 106/20 L | | | |
| CCOX | 4436 | 105/19 L | 106/06 | | | | | | |
| CC01 | 4502 | 105/43 | 105/45 | 105/50 L | | | | | |
| CC02 | 4530 | 81/44 | 84/40 | 85/43 | 106/05 | 106/10 L | | | |
| CC03 | 4536 | 106/11 | 106/14 L | | | | | | |
| CEI | 3530 | 79/17 | 94/20 D | | | | | | |
| CEIA | 3537 | 94/22 S | 94/25 D | | | | | | |
| CEIX | 3527 | 94/20 L | | | | | | | |
| CEI1 | 3555 | 94/31 | 94/37 L | | | | | | |
| CEI10 | 3522 | 94/14 L | 94/34 | 96/22 | | | | | |
| CEI11 | 3523 | 94/15 L | 94/26 | 94/28 | | | | | |
| CEI2 | 3611 | 94/44 | 95/09 L | | | | | | |
| CEI3 | 3630 | 95/09 | 95/12 | 95/19 | 95/24 L | 95/36 | 95/43 | 95/46 | |
| CEI4 | 3634 | 95/23 | 95/27 L | | | | | | |
| CEI5 | 3646 | 95/36 L | | | | | | | |
| CEI6 | 3673 | 95/33 | 95/55 L | | | | | | |
| CEI6.1 | 3710 | 96/09 L | 96/16 | | | | | | |
| CEI6.2 | 3712 | 96/06 | 96/08 | 96/11 L | | | | | |
| CEI7 | 3721 | 95/57 | 96/18 L | | | | | | |
| CEI8 | 3727 | 95/25 | 96/21 L | | | | | | |
| CEI9 | 3731 | 96/03 | 96/13 | 96/22 L | | | | | |
| CFP | 4550 | 82/28 | 85/49 | 106/43 D | | | | | |
| CFPX | 4547 | 106/43 L | 108/15 | | | | | | |
| CFP1 | 4636 | 107/21 | 107/32 | 107/39 L | 107/50 | 107/56 | 108/07 | 108/13 | |
| CFP2 | 4640 | 107/38 | 107/43 L | | | | | | |
| CFP3 | 4546 | 106/41 L | 106/50 | 106/54 | 107/39 | | | | |
| CFS | 4700 | 82/30 | 85/51 | 108/30 D | | | | | |
| CFSX | 4677 | 108/30 L | 108/36 | 108/44 | 109/12 | | | | |
| CFS1 | 4720 | 108/39 | 108/41 | 108/48 L | | | | | |
| CFS2 | 4744 | 109/04 | 109/08 L | | | | | | |
| CFS3 | 4746 | 108/50 | 108/53 | 108/56 | 109/02 | 109/11 L | | | |
| CFS4 | 4747 | 109/06 | 109/09 | 109/12 L | | | | | |
| CJA | 4767 | 86/31 | 93/36 | 109/49 D | | | | | |
| CJAA | 5002 | 109/57 L | 118/38 S | | | | | | |
| CJAX | 4766 | 109/49 L | 109/54 | 110/14 | | | | | |
| CJA1 | 5010 | 110/02 | 110/05 L | | | | | | |
| CJS | 2413 | 81/10 D | 94/27 | 96/43 | 136/54 | | | | |
| CJSX | 2412 | 81/10 L | 81/12 | 81/15 | 81/25 | | | | |
| CMF | 2443 | 80/05 | 81/46 D | 89/18 | | | | | |
| CMFX | 2442 | 81/43 | 81/46 L | | | | | | |
| CMF1 | 2450 | 81/48 | 81/51 L | 82/08 | 82/10 | 82/14 | 82/34 | | |
| CMF2 | 2520 | 82/22 | 82/28 L | 82/43 | | | | | |
| CMF3 | 2530 | 82/34 L | 82/37 | 82/46 | | | | | |
| CMF4 | 2532 | 82/29 | 82/33 | 82/36 L | 82/53 | | | | |
| CMF5 | 2542 | 82/31 | 82/45 L | 83/09 | | | | | |
| CMF6 | 2545 | 82/32 | 82/48 L | | | | | | |
| CMF7 | 2550 | 82/50 L | 82/55 | 83/01 | 83/04 | 83/08 | | | |

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| | CMF8 | 2435 | 81/42 L | 81/53 | 82/03 | | | | |
| | CPD | 4752 | 102/01 | 109/24 D | 134/19 | | | | |
| | CPDX | 4751 | 109/24 L | 109/34 | | | | | |
| 1 | CPXS | 2410 | 80/22 L | 115/23 | 120/25 S | | | | |
| 2 | CSA | 6261 | 118/46 | 120/49 D | | | | | |
| 3 | CSAX | 6260 | 120/49 L | 120/54 | 120/56 | 121/04 | | | |
| 4 | CSF | 2613 | 83/44 D | 119/05 | | | | | |
| 5 | CSFX | 2612 | 83/44 L | 83/56 | 84/04 | 84/06 | 84/10 | | |
| 6 | CSF0 | 2644 | 84/10 L | 84/17 | | | | | |
| 7 | CSF1 | 2645 | 83/54 | 84/12 L | | | | | |
| 8 | CSF2 | 2611 | 83/42 L | 83/47 | | | | | |
| 9 | CSS | 6303 | 120/05 | 121/16 D | | | | | |
| 10 | CSSA | 6323 | 121/20 | 121/32 L | | | | | |
| 11 | CSSX | 6302 | 121/16 L | 121/24 | 121/29 | | | | |
| 12 | CSS1 | 6312 | 121/22 L | 121/26 | | | | | |
| 13 | CUA | 6453 | 118/28 | | | | | | |
| 14 | DMP | 5025 | 110/32 L | 127/02 | 134/49 | | | | |
| 15 | DMPA | 5122 | 111/18 | 111/26 L | 134/09 S | 134/12 S | 134/16 S | 134/18 S | |
| 16 | DMPB | 5076 | 111/10 D | 118/29 S | | | | | |
| 17 | DMP1 | 5032 | 110/34 | 110/37 L | 134/20 | | | | |
| 18 | DMP2 | 5043 | 110/42 | 110/45 L | | | | | |
| 19 | DMP3 | 5063 | 110/57 L | 111/14 | | | | | |
| 20 | DMP4 | 5066 | 110/55 | 111/03 L | | | | | |
| 21 | DMP5 | 5103 | 111/08 | 111/12 | 111/16 L | | | | |
| 22 | DMP6 | 5115 | 111/01 | 111/22 L | | | | | |
| 23 | DTC | 3734 | 89/09 | 89/34 | 96/42 D | | | | |
| 24 | DTCX | 3733 | 96/42 L | 96/44 | 96/52 | 97/01 | 97/07 | 97/28 | |
| 25 | DTC1 | 3774 | 97/02 | 97/20 L | | | | | |
| 26 | DTC2 | 4006 | 97/22 | 97/28 L | | | | | |
| 27 | DTC3 | 4010 | 97/27 | 97/32 L | | | | | |
| 28 | DTC4 | 4033 | 97/16 | 97/52 L | | | | | |
| 29 | EBC | 3045 | 80/09 | 87/04 D | | | | | |
| 30 | EBCA | 3071 | 87/13 S | 87/16 D | | | | | |
| 31 | EBCX | 3044 | 87/04 L | 89/21 | 91/40 | 93/37 | 127/46 | 132/57 | |
| 32 | | | 87/06 | 90/07 | 92/47 | 110/43 | 129/45 | 134/02 | |
| 33 | | | 87/12 | 90/31 | 93/23 | 124/38 | 131/51 | 135/18 | |
| 34 | EBC1 | 3057 | 87/09 | 87/11 L | | | | | |
| 35 | ESB | 5130 | 90/24 | 93/20 | 109/50 | 111/40 D | 127/41 | | |
| 36 | ESBX | 5127 | 111/40 L | 112/07 | | | | | |
| 37 | EXPA | 6053 | 97/36 S | 98/27 S | 118/03 L | 132/22 | 132/52 S | 136/14 | |
| 38 | | | 97/40 | 99/41 | 124/16 | 132/37 S | 132/53 | | |
| 39 | FN | 40 | 78/47 D | 114/31 S | 114/36 | 114/38 | | | |
| 40 | IDL | 3210 | 88/18 | 88/39 L | | | | | |
| 41 | IDLA | 3210 | 88/40 L | 121/27 S | | | | | |
| 42 | IDL1 | 3216 | 88/42 | 88/52 L | | | | | |
| 43 | ITL | 5164 | 91/39 | 101/53 | 112/20 D | | | | |
| 44 | ITLX | 5163 | 112/20 L | 112/25 | | | | | |
| 45 | LOAV | 5236 | 92/42 | 113/28 D | 113/29 | | | | |
| 46 | NL | 32 | 78/46 D | 114/18 S | 114/27 | | | | |
| 47 | PEF | 2301 | 79/07 D | | | | | | |
| 48 | PEFA | 2351 | 79/40 S | 79/43 D | | | | | |
| 49 | PEFX | 2300 | 75/02 | 79/07 L | 79/32 | 80/14 | 123/23 | | |
| 50 | PEF1 | 2315 | 79/16 | 79/22 L | | | | | |
| 51 | PEF2 | 2320 | 79/23 | 79/25 L | | | | | |
| 52 | PEF2.1 | 2330 | 79/09 | 79/31 L | 79/50 | | | | |
| 53 | PEF2.2 | 2333 | 79/10 | 79/33 L | | | | | |
| 54 | PEF2.3 | 2335 | 79/30 | 79/35 L | | | | | |

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| | PEF3 | 2355 | 79/18 | 79/38 | 79/49 L | | | | | |
| | PEF5 | 2376 | 79/33 | 79/53 | 79/55 | 79/57 | 80/02 | 80/04 | 80/09 L | 88/48 |
| | PEF6 | 2400 | 79/27 | 80/10 L | | | | | | |
| 1 | PEF7 | 2405 | 80/11 | 80/13 L | | | | | | |
| 2 | PERS | 2411 | 80/23 L | 119/07 S | 127/32 | 127/36 | | | | |
| 3 | PLF | 2666 | 80/03 | 84/44 D | 89/16 | | | | | |
| 4 | PLFA | 2730 | 85/08 S | 85/10 S | 85/16 D | | | | | |
| 5 | PLFX | 2665 | 84/39 | 84/44 L | 85/45 | | | | | |
| 6 | PLF0 | 2704 | 84/57 L | 85/07 | | | | | | |
| 7 | PLF1 | 2726 | 85/14 L | 85/38 | 86/01 | | | | | |
| 8 | PLF10 | 2664 | 84/42 L | 84/54 | | | | | | |
| 9 | PLF2 | 2743 | 85/19 | 85/30 L | | | | | | |
| 10 | PLF3 | 2745 | 85/29 | 85/32 L | | | | | | |
| 11 | PLF4 | 2762 | 85/17 | 85/36 | 85/41 L | | | | | |
| 12 | PLF5 | 2767 | 85/42 | 85/45 L | | | | | | |
| 13 | PLF6 | 2771 | 85/39 | 85/49 L | | | | | | |
| 14 | PLF7 | 3003 | 85/52 | 85/57 L | | | | | | |
| 15 | PLF8 | 3005 | 85/50 | 85/53 | 85/56 | 86/01 L | | | | |
| 16 | PLF9 | 2653 | 84/36 L | 84/57 | 85/30 | | | | | |
| 17 | PPT | 3010 | 80/12 | 86/19 D | | | | | | |
| 18 | PPTX | 3007 | 86/19 L | 86/42 | | | | | | |
| 19 | PPT1 | 3025 | 86/23 | 86/31 L | | | | | | |
| 20 | PPT2 | 3027 | 86/25 | 86/30 | 86/32 L | | | | | |
| 21 | PPT3 | 3031 | 86/21 | 86/27 | 86/33 L | | | | | |
| 22 | PRS | 6054 | 79/08 | 118/27 D | | | | | | |
| 23 | PRX | 6053 | 118/27 L | 119/09 | 120/29 | | | | | |
| 24 | PRS0.1 | 6103 | 118/37 | 118/46 L | | | | | | |
| 25 | PRS0.2 | 6105 | 118/41 | 118/44 | 118/47 L | | | | | |
| 26 | PRS1 | 6131 | 118/51 | 119/05 L | | | | | | |
| 27 | PRS2 | 6141 | 119/06 | 119/13 L | | | | | | |
| 28 | PRS3 | 6145 | 118/49 | 119/18 L | | | | | | |
| 29 | PRS3.1 | 6167 | 119/25 | 119/28 | 119/36 L | | | | | |
| 30 | PRS4 | 6203 | 119/37 | 119/50 L | | | | | | |
| 31 | PRS5 | 6217 | 120/04 | 120/10 L | | | | | | |
| 32 | PRS5.1 | 6240 | 120/12 | 120/18 | 120/24 L | | | | | |
| 33 | PRS6 | 6246 | 120/06 | 120/29 L | 120/36 | | | | | |
| 34 | PRS7 | 6250 | 120/20 | 120/31 L | | | | | | |
| 35 | PTA | 3224 | 88/09 | 89/08 L | | | | | | |
| 36 | PTA2 | 3235 | 89/15 | 89/17 | 89/19 L | | | | | |
| 37 | PTI | 3243 | 88/08 | 89/33 L | | | | | | |
| 38 | RAB | 3247 | 88/25 | 89/55 L | | | | | | |
| 39 | RAB1 | 3263 | 90/01 | 90/04 | 90/07 L | | | | | |
| 40 | RER | 3265 | 88/19 | 90/23 L | | | | | | |
| 41 | RER1 | 3301 | 90/26 | 90/31 L | | | | | | |
| 42 | RIJ | 4246 | 101/15 | 101/36 L | 137/37 | | | | | |
| 43 | RIJ1 | 4260 | 101/42 | 101/48 L | | | | | | |
| 44 | RIJ2 | 4265 | 101/46 | 101/53 L | | | | | | |
| 45 | RIJ3 | 4270 | 101/49 | 101/56 L | | | | | | |
| 46 | RIP | 4047 | 96/19 | 98/22 L | | | | | | |
| 47 | RIPA | 4105 | 98/56 D | 122/56 S | 123/01 S | | | | | |
| 48 | RIP2 | 4141 | 98/57 | 99/13 | 99/16 | 99/20 | 99/23 | 99/26 L | | |
| 49 | RREA | 3303 | 90/29 | 90/34 L | | | | | | |
| 50 | RSF | 5237 | 89/56 | 114/15 D | 124/37 | | | | | |
| 51 | RSFA | 5241 | 114/17 D | 118/36 S | | | | | | |
| 52 | RSFX | 5236 | 114/15 L | 114/28 | | | | | | |
| 53 | RSF1 | 5246 | 114/24 L | 114/37 | 114/43 | 114/52 | | | | |
| 54 | RSF2 | 5274 | 114/41 | 114/46 L | | | | | | |

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|----|--------|------|----------|----------|----------|----------|----------|--------|--------|--|
| | RSF3 | 5303 | 114/52 L | 115/12 | | | | | | |
| | RSF4 | 5304 | 114/48 | 114/56 L | | | | | | |
| | RSF5 | 5306 | 114/51 | 115/01 L | | | | | | |
| 1 | RSF6 | 5320 | 114/44 | 115/09 L | | | | | | |
| 2 | SCR | 5176 | 86/32 | 91/16 | 112/38 D | | | | | |
| 3 | SCRX | 5175 | 112/38 L | 112/50 | | | | | | |
| 4 | SEJ | 5215 | 90/06 | 90/28 | 93/22 | 109/52 | 113/13 D | 124/34 | 127/45 | |
| 5 | SEJX | 5214 | 113/13 L | 113/27 | | | | | | |
| 6 | SFX | 5334 | 87/07 | 115/22 D | | | | | | |
| 7 | SFXX | 5333 | 115/22 L | 115/51 | | | | | | |
| 8 | SFX1 | 5355 | 115/25 | 115/36 L | | | | | | |
| 9 | SFX2 | 5376 | 115/47 | 115/51 L | | | | | | |
| 10 | SPI | 4166 | 96/09 | 100/11 L | | | | | | |
| 11 | SPIA | 4217 | 100/32 S | 100/34 L | | | | | | |
| 12 | SPIB | 4222 | 100/29 S | 100/37 L | | | | | | |
| 13 | SPI1 | 4202 | 100/24 L | 100/27 | | | | | | |
| 14 | SQD | 5401 | 116/11 D | | | | | | | |
| 15 | SQDX | 5400 | 116/11 L | 116/25 | | | | | | |
| 16 | SRE | 4234 | 99/44 | 101/09 L | | | | | | |
| 17 | SRL | 3311 | 88/17 | 90/51 L | | | | | | |
| 18 | SRLA | 3372 | 91/28 S | 91/38 D | | | | | | |
| 19 | SRLB | 3377 | 91/29 | 91/43 L | | | | | | |
| 20 | SRLC | 3413 | 91/32 | 91/44 L | | | | | | |
| 21 | SRL1 | 3342 | 91/15 | 91/17 L | | | | | | |
| 22 | SRL2 | 3364 | 91/26 | 91/32 L | | | | | | |
| 23 | SRL3 | 3366 | 91/30 | 91/33 L | | | | | | |
| 24 | STC | 4274 | 98/04 | 101/54 | 101/57 | 102/18 L | 125/46 | | | |
| 25 | STC1 | 4316 | 102/32 | 102/34 L | | | | | | |
| 26 | STP | 6333 | 118/30 | 122/11 D | | | | | | |
| 27 | STPA | 6371 | 122/26 S | 122/28 S | 122/35 D | 122/41 | 122/46 | | | |
| 28 | STPB | 6444 | 122/36 S | 122/37 | 122/40 S | 122/47 | 123/12 L | | | |
| 29 | STPX | 6332 | 122/11 L | 122/25 | 122/54 | 123/10 | | | | |
| 30 | STP1.1 | 6414 | 122/31 | 122/48 L | | | | | | |
| 31 | STP2 | 6415 | 122/17 | 122/19 | 122/50 L | | | | | |
| 32 | STP3 | 6432 | 122/48 | 123/02 L | | | | | | |
| 33 | SVE | 3424 | 88/22 | 92/15 L | | | | | | |
| 34 | SVE0 | 3460 | 92/33 | 92/37 | 92/40 L | | | | | |
| 35 | SVE1 | 3475 | 92/44 | 92/47 L | | | | | | |
| 36 | SWE | 3477 | 88/26 | 93/12 L | | | | | | |
| 37 | SWE1 | 3505 | 93/15 | 93/18 L | | | | | | |
| 38 | SWE2 | 3507 | 93/17 | 93/20 L | | | | | | |
| 39 | TCEC | 4367 | 98/40 | 104/06 L | 104/06 | 139/57 | | | | |
| 40 | TERM | 3072 | 87/08 | 87/26 L | 87/26 | | | | | |
| 41 | TERP | 3141 | 87/11 | 88/06 L | 88/06 | | | | | |
| 42 | TRJ | 3516 | 88/21 | 92/45 | 93/35 L | 129/49 | 133/33 | | | |
| 43 | | | 88/24 | 93/18 | 127/34 | 131/40 | | | | |
| 44 | TROF | 4320 | 94/21 | 96/01 | 98/36 | 103/06 L | 103/06 | 120/10 | 138/48 | |
| 45 | TSFN | 2574 | 82/48 | 83/17 L | | | | | | |
| 46 | VCA | 5422 | 97/06 | 97/21 | 116/45 D | | | | | |
| 47 | VCAX | 5421 | 116/45 L | 117/03 | | | | | | |
| 48 | VCA1 | 5420 | 116/43 L | 116/53 | | | | | | |
| 49 | .3 | 4736 | 123/23 D | 123/26 | 123/27 | 123/29 | | | | |
| 50 | .4 | 5505 | 123/23 D | 123/28 | | | | | | |

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| PST | 7166 | 88/11 | 134/34 | L | | | | |
| PSTA | 7216 | 134/47 | 134/52 | L | | | | |
| PSTB | 7227 | 134/39 S | 134/43 S | | 134/46 S | | 134/53 L | |
| TLE | 7234 | 88/16 | 135/08 | L | | | | |
| .4 | 1725 | 135/31 D | 135/36 | | | | | |

SYMBOL QUALIFIER = TCS

| | | | | | | | | |
|--------|------|----------|----------|----------|----------|----------|----------|--------|
| AKW | 2571 | 162/32 D | 180/52 | 181/02 | 184/06 | 189/20 | 323/46 | |
| AKWX | 2570 | 162/29 | 162/32 L | 162/53 | | | | |
| AKW1 | 2607 | 162/40 | 162/44 L | | | | | |
| AKW2 | 2552 | 162/18 L | 162/48 | | | | | |
| AKW3 | 2557 | 162/23 L | 162/46 | | | | | |
| AKW4 | 2560 | 162/21 | 162/24 L | | | | | |
| AKW5 | 2562 | 162/19 | 162/26 L | 162/38 | | | | |
| AOD | 4650 | 200/57 | 201/10 | 201/50 D | | | | |
| AODX | 4647 | 201/50 L | 201/57 | 202/05 | | | | |
| AOD1 | 4656 | 201/56 L | 202/20 | | | | | |
| AOD2 | 4704 | 202/10 | 202/22 L | | | | | |
| AOD3 | 4634 | 201/40 L | 202/03 | 202/07 | | | | |
| ARG | 2300 | 154/52 | 158/34 D | 190/25 | 201/42 | | | |
| ARGA | 2315 | 151/44 S | 158/47 D | 162/20 S | 178/38 S | 273/45 S | | |
| ARGB | 2337 | 159/08 D | | | | | | |
| ARGC | 2306 | 158/41 D | 159/20 | 181/40 | 181/41 S | | | |
| ARGX | 2277 | 158/34 L | 158/39 | | | | | |
| ARG1 | 2307 | 158/42 L | 159/09 | | | | | |
| ARG2 | 2322 | 158/48 | 158/52 L | | | | | |
| ARG3 | 2326 | 158/50 | 158/56 L | | | | | |
| ARG4 | 2327 | 158/54 | 158/57 L | | | | | |
| ARG6 | 2261 | 158/21 L | 158/43 | 159/20 | 181/40 | | | |
| ASN | 2625 | 153/52 | 158/45 | 162/26 | 162/41 | 163/17 D | 201/45 | |
| ASNA | 2647 | 163/33 D | 183/38 S | 183/53 S | 184/16 S | 189/12 S | | |
| ASNX | 2624 | 163/17 L | 163/23 | 163/27 | | | | |
| ASN1 | 2632 | 163/22 L | 163/31 | | | | | |
| AST | 7364 | 186/14 | | | | | | |
| ATX | 5045 | 183/40 D | 191/26 | | | | | |
| ATXX | 5044 | 183/40 L | 183/46 | | | | | |
| ATX1 | 5066 | 183/33 | 183/36 | 183/52 | 183/54 L | 184/05 | 184/09 | 184/12 |
| ATX1.1 | 5075 | 183/55 | 184/02 L | | | | | |
| ATX2 | 5032 | 183/31 L | 184/03 | | | | | |
| BCP | 1617 | 152/01 | 152/34 | 153/22 L | | | | |
| BCPA | 1635 | 153/35 L | 179/27 S | | | | | |
| BCPB | 1705 | 150/10 S | 154/21 D | 276/30 S | | | | |
| BCPC | 1711 | 152/17 | 152/18 S | 154/25 L | 157/48 | | | |
| BCPD | 1742 | 154/52 L | 262/25 S | 262/27 S | | | | |
| BCPE | 1776 | 155/04 S | 155/22 D | | | | | |
| BCPF | 2021 | 155/39 L | 191/38 S | | | | | |
| BCPG | 2175 | 157/06 L | 157/49 | 179/15 | 179/16 S | 198/09 | 198/10 S | |
| BCPH | 2201 | 157/10 L | 170/49 S | 171/37 S | | | | |
| BCPI | 2235 | 155/34 S | 156/54 | 158/29 S | 225/50 S | 226/02 S | 226/10 S | |
| | | 155/37 S | 157/36 L | 158/32 S | 225/52 S | 226/04 S | 226/12 S | |
| BCPJ | 2254 | 156/10 | 157/46 L | 185/54 S | 186/02 S | | | |
| BCPK | 1777 | 155/23 L | 181/15 S | | | | | |

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| | BCPL | 1746 | 154/56 L | 181/44 | 181/45 S | | | | |
| | BCPN | 2211 | 157/18 L | 171/39 S | 275/24 S | | | | |
| | BCP1 | 1637 | 153/34 | 153/40 L | | | | | |
| 1 | BCP10 | 2027 | 155/39 | 155/44 L | | | | | |
| 2 | BCP11 | 2047 | 155/01 | 155/46 | 155/50 | 155/56 L | | | |
| 3 | BCP11.1 | 2064 | 156/06 | 156/10 L | | | | | |
| 4 | BCP12 | 2105 | 156/09 | 156/17 L | | | | | |
| 5 | BCP13 | 2125 | 156/25 | 156/31 L | | | | | |
| 6 | BCP15 | 2141 | 156/37 | 156/43 L | | | | | |
| 7 | BCP16 | 2151 | 156/45 | 156/47 L | | | | | |
| 8 | BCP17 | 2173 | 157/01 | 157/04 L | | | | | |
| 9 | BCP18 | 2202 | 157/09 | 157/12 L | | | | | |
| 10 | BCP18.1 | 2213 | 157/16 | 157/22 L | | | | | |
| 11 | BCP19 | 2215 | 157/10 | 157/21 | 157/23 L | 157/49 | 179/15 | 198/09 | |
| 12 | BCP2 | 1650 | 153/42 | 153/48 L | | | | | |
| 13 | BCP20 | 2223 | 157/25 | 157/29 L | | | | | |
| 14 | BCP21 | 2225 | 157/28 | 157/30 L | | | | | |
| 15 | BCP22 | 2227 | 157/32 L | 262/26 | | | | | |
| 16 | BCP3 | 1661 | 153/49 | 153/56 L | 179/26 | | | | |
| 17 | BCP4 | 1666 | 153/35 | 154/07 L | | | | | |
| 18 | BCP4.1 | 1700 | 154/09 | 154/16 L | | | | | |
| 19 | BCP5 | 1704 | 154/03 | 154/20 L | | | | | |
| 20 | BCP6 | 1717 | 154/23 | 154/31 L | | | | | |
| 21 | BCP7 | 1721 | 152/17 | 154/25 | 154/29 | 154/33 L | 157/48 | | |
| 22 | BCP8 | 1734 | 154/39 | 154/47 L | | | | | |
| 23 | BCP9 | 1751 | 154/56 | 155/03 L | | | | | |
| 24 | BCP9.1 | 1755 | 155/05 L | 181/44 | | | | | |
| 25 | BCP9.2 | 2021 | 155/23 | 155/38 L | | | | | |
| 26 | BEGI | 4 | 151/24 | 174/27 | 174/50 L | 274/21 | | | |
| 27 | CA | 66 | 144/52 D | 158/52 | 162/36 | 165/19 | 200/54 | 201/41 S | 202/19 S |
| 28 | | | 153/51 S | 162/24 S | 162/42 S | 165/22 | 200/56 S | 201/44 S | 204/51 |
| 29 | | | 158/42 | 162/27 | 162/44 | 176/39 | 201/01 | 201/51 | |
| 30 | | | 158/44 S | 162/34 S | 165/18 S | 176/47 | 201/09 S | 201/56 | |
| 31 | CAT | 2651 | 146/13 | 163/49 D | 187/11 | 194/12 | 323/17 | | |
| 32 | | | 155/56 | 179/54 | 193/13 | 198/47 | | | |
| 33 | CATX | 2650 | 163/49 L | 164/04 | | | | | |
| 34 | CCF | 5130 | 178/09 | 184/30 D | 198/48 | | | | |
| 35 | CCFX | 5127 | 184/30 L | 185/06 | | | | | |
| 36 | CES | 5177 | 178/04 | 185/18 D | 191/35 | 191/39 | | | |
| 37 | CESX | 5176 | 185/18 L | 185/27 | | | | | |
| 38 | CGL | 1262 | 145/17 | 145/26 | 148/17 D | | | | |
| 39 | CGLA | 1277 | 148/26 D | 274/22 S | | | | | |
| 40 | CGLB | 1301 | 148/28 D | 274/24 S | 276/26 S | 276/28 S | | | |
| 41 | CGLC | 1302 | 148/33 L | 236/57 | 237/02 | 275/56 S | 276/02 S | | |
| 42 | CGLX | 1261 | 148/17 L | 148/23 | 148/27 | | | | |
| 43 | CIJ | 5212 | 178/07 | 185/50 D | | | | | |
| 44 | CIJX | 5211 | 185/50 L | 186/06 | 186/12 | 186/16 | | | |
| 45 | CIJ1 | 5247 | 186/16 L | 186/32 | | | | | |
| 46 | CKA | 5363 | 186/55 D | 190/42 | 191/40 | | | | |
| 47 | CKAA | 5405 | 187/09 | 187/15 L | | | | | |
| 48 | CKAX | 5362 | 186/55 L | | | | | | |
| 49 | CKA1 | 5376 | 186/56 | 187/09 L | | | | | |
| 50 | CKA2 | 5354 | 186/53 L | 187/08 | | | | | |
| 51 | CLX | 4002 | 154/51 | | | | | | |
| 52 | CPP | 1242 | 147/33 L | 161/13 | 257/26 | | | | |
| 53 | CRS | 6251 | 190/57 | | | | | | |
| 54 | CSC | 6764 | 178/08 | 195/18 D | | | | | |

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|----|--------|------|--------|---|--------|--------|----------|----------|----------|----------|----------|----------|
| | CSCX | 6763 | 195/18 | L | 195/20 | 195/38 | 195/41 | 196/11 | | | | |
| | CSC0 | 7020 | 195/25 | | 195/28 | 195/40 | L | | | | | |
| | CSC1 | 7040 | 195/44 | | 195/46 | 195/51 | L | | | | | |
| 1 | CSC2 | 7051 | 195/56 | | 196/02 | L | | | | | | |
| 2 | CSC2.1 | 7056 | 196/01 | | 196/07 | L | | | | | | |
| 3 | CSC3 | 7066 | 196/04 | | 196/06 | | 196/11 | L | | | | |
| 4 | CSE | 2354 | 151/33 | | 159/42 | D | | | | | | |
| 5 | CSEA | 2454 | 160/38 | L | 180/51 | S | | | | | | |
| 6 | CSEB | 1254 | 146/15 | | 155/47 | | 157/17 | 160/16 | 161/05 | 190/51 | 258/35 | 275/07 S |
| 7 | | | 147/46 | L | 155/49 | | 158/37 | 160/21 | 161/07 | 228/07 | 260/27 | 275/19 |
| 8 | | | 151/36 | | 156/19 | | 159/50 S | 160/29 | 175/22 | 228/09 S | 260/29 | 275/22 S |
| 9 | | | 153/32 | | 156/23 | | 159/54 S | 160/32 | 188/55 S | 257/42 | 261/06 | 275/27 |
| 10 | | | 154/07 | | 156/43 | | 159/55 | 160/34 S | 188/56 | 257/51 | 261/11 | 323/40 |
| 11 | | | 155/44 | | 156/56 | | 160/15 S | 160/42 | 189/15 | 258/22 | 274/20 S | 323/45 S |
| 12 | CSEX | 2353 | 159/42 | L | 160/35 | | | | | | | |
| 13 | CSE1 | 2367 | 159/45 | | 159/53 | L | | | | | | |
| 14 | CSE2 | 2372 | 159/51 | | 159/55 | L | | | | | | |
| 15 | CSE3 | 2414 | 160/02 | | 160/08 | | 160/10 | 160/14 | L | | | |
| 16 | CSE4 | 2420 | 159/57 | | 160/12 | | 160/16 | L | | | | |
| 17 | CSE5 | 2427 | 160/18 | | 160/21 | L | | | | | | |
| 18 | CSE6 | 2452 | 160/23 | | 160/28 | | 160/35 | L | 160/41 | | | |
| 19 | CSE7 | 2454 | 160/31 | | 160/39 | L | | | | | | |
| 20 | CSE8 | 2464 | 160/44 | | 160/46 | L | | | | | | |
| 21 | CSL | 5422 | 179/50 | | 187/34 | D | 189/08 | | | | | |
| 22 | CSLA | 5453 | 187/43 | | 187/56 | L | | | | | | |
| 23 | CSLX | 5421 | 187/34 | L | 187/47 | | | | | | | |
| 24 | CSL1 | 5420 | 187/32 | L | 187/37 | | | | | | | |
| 25 | CST | 2524 | 157/22 | | 161/31 | D | | | | | | |
| 26 | CSTA | 2525 | 161/32 | L | 174/29 | | 174/30 S | 174/40 | | | | |
| 27 | CSTB | 2532 | 161/36 | L | 171/36 | S | 174/29 | 174/40 | | | | |
| 28 | CSTC | 2534 | 161/40 | D | 171/34 | S | | | | | | |
| 29 | CSTD | 2537 | 161/43 | D | 171/32 | S | | | | | | |
| 30 | CSTX | 2523 | 161/31 | L | 161/36 | | 161/50 | | | | | |
| 31 | CTIME | 6062 | 192/52 | L | 194/30 | | | | | | | |
| 32 | CUA | 7461 | 197/29 | | | | | | | | | |
| 33 | CVD | 2667 | 160/45 | | 164/18 | D | | | | | | |
| 34 | CVDA | 2717 | 164/30 | S | 164/36 | D | | | | | | |
| 35 | CVDX | 2666 | 164/18 | L | 164/28 | | 164/32 | | | | | |
| 36 | CVD1 | 2707 | 164/26 | | 164/31 | L | | | | | | |
| 37 | CVD2 | 2716 | 164/20 | | 164/35 | L | | | | | | |
| 38 | DPP | 1234 | 146/51 | | 178/14 | | 199/06 | 258/56 | 324/17 | | | |
| 39 | | | 147/17 | L | 191/07 | | 257/15 | 277/44 | | | | |
| 40 | DPPA | 1236 | 147/19 | L | 198/33 | S | | | | | | |
| 41 | ECA | 2552 | 161/54 | D | 161/56 | | | | | | | |
| 42 | ECB | 2477 | 161/55 | D | | | | | | | | |
| 43 | ECC | 2552 | 161/56 | D | 161/57 | | 325/05 | | | | | |
| 44 | EJTB | 6260 | 199/08 | S | 199/08 | S | | | | | | |
| 45 | EJT\$ | 1 | 194/42 | D | | | | | | | | |
| 46 | EOVL | 1266 | 147/51 | D | 161/55 | | 322/17 | 325/05 | | | | |
| 47 | ERR | 2721 | 163/32 | | 164/57 | L | 183/37 | 184/15 | 202/22 | | | |
| 48 | ERR1 | 2723 | 145/46 | | 150/38 | | 154/31 | 164/37 | 174/38 | 268/02 | 274/34 | |
| 49 | | | 149/17 | | 152/36 | | 159/17 | 165/01 L | 181/12 | 272/20 | 276/12 | |
| 50 | FECF | 0 | 186/13 | | | | | | | | | |
| 51 | FN | 32 | 144/47 | D | | | | | | | | |
| 52 | FNTB | 6266 | 199/08 | S | 199/08 | S | | | | | | |
| 53 | HTIME | 6066 | 192/57 | L | 194/31 | | | | | | | |
| 54 | HTI1 | 6101 | 192/55 | | 193/09 | L | | | | | | |

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|----|---------|------|--------|--------|--------|--------|--------|--------|-------------------|
| | HTI2 | 6105 | 193/05 | 193/13 | L | | | | |
| | HTI3 | 6111 | 193/15 | L | 194/14 | | | | |
| | HTI4 | 6123 | 193/17 | 193/24 | L | | | | |
| 1 | IAA | 7071 | 179/39 | 196/31 | D | | | | |
| 2 | IAAA | 7133 | 196/54 | S | 196/55 | 197/05 | L | | |
| 3 | IAAX | 7070 | 196/31 | L | 196/45 | 196/57 | | | |
| 4 | IFP | 7331 | 197/28 | 199/08 | D | | | | |
| 5 | IFPX | 7330 | 199/08 | L | 199/08 | | | | |
| 6 | INT | 7147 | 145/11 | 197/27 | L | | | | |
| 7 | INTA | 4377 | 178/24 | 178/29 | L | | | | |
| 8 | INTB | 4550 | 179/54 | L | 195/48 | S | 195/50 | S | |
| 9 | INTC | 4632 | 180/44 | L | 196/08 | S | 196/10 | S | |
| 10 | INT0 | 7206 | 197/46 | 197/49 | L | | | | |
| 11 | INT1 | 7233 | 198/05 | 198/09 | L | | | | |
| 12 | INT10 | 4352 | 178/12 | L | 198/38 | | | | |
| 13 | INT11 | 4356 | 178/13 | 178/16 | L | | | | |
| 14 | INT12 | 4366 | 178/18 | 178/24 | L | | | | |
| 15 | INT13 | 4414 | 178/21 | 178/31 | L | | | | |
| 16 | INT14 | 4423 | 178/33 | 178/38 | L | | | | |
| 17 | INT15 | 4425 | 178/10 | 178/36 | | 178/42 | L | | |
| 18 | INT16 | 4431 | 178/46 | L | 179/04 | | | | |
| 19 | INT17 | 4444 | 178/45 | 178/48 | | 178/53 | L | | |
| 20 | INT18 | 4446 | 178/43 | 178/55 | L | | | | |
| 21 | INT2 | 7237 | 198/08 | 198/11 | L | | | | |
| 22 | INT20 | 4476 | 179/11 | 179/15 | L | | | | |
| 23 | INT21 | 4520 | 178/53 | 179/28 | L | | | | |
| 24 | INT22 | 4525 | 179/30 | 179/33 | L | | | | |
| 25 | INT22.1 | 4541 | 179/38 | 179/46 | | 179/49 | L | | |
| 26 | INT22.2 | 4550 | 179/53 | L | 180/48 | | | | |
| 27 | INT23 | 4554 | 179/52 | 180/03 | L | | | | |
| 28 | INT23.1 | 4621 | 180/19 | 180/24 | | 180/36 | L | | |
| 29 | INT23.2 | 4651 | 180/53 | L | 181/03 | | | | |
| 30 | INT24 | 4665 | 180/46 | 181/02 | L | | | | |
| 31 | INT24.1 | 4677 | 180/54 | 181/04 | | 181/09 | L | | |
| 32 | INT25 | 4710 | 181/14 | L | 195/49 | | | | |
| 33 | INT26 | 4714 | 181/16 | L | 196/07 | | | | |
| 34 | INT27 | 4745 | 181/27 | 181/30 | L | | | | |
| 35 | INT28 | 4754 | 181/32 | 181/35 | L | | | | |
| 36 | INT29 | 4763 | 181/37 | 181/40 | L | | | | |
| 37 | INT3 | 7252 | 198/12 | 198/15 | | 198/18 | 198/21 | L | |
| 38 | INT30 | 5017 | 181/56 | L | 182/06 | | | | |
| 39 | INT31 | 5025 | 181/53 | 182/04 | L | | | | |
| 40 | INT4 | 7265 | 198/30 | L | | | | | |
| 41 | INT5 | 7267 | 198/29 | 198/32 | L | | | | |
| 42 | INT6 | 7302 | 198/37 | 198/47 | L | | | | |
| 43 | INT7 | 4335 | 178/04 | L | 198/30 | | | | |
| 44 | INT8 | 4342 | 178/05 | 178/07 | L | | | | |
| 45 | INT9 | 4350 | 178/10 | L | 178/23 | | | | |
| 46 | IOC | 2736 | 163/22 | 163/26 | | 165/21 | D | | |
| 47 | IOCX | 2735 | 165/21 | L | 165/23 | 165/29 | | | |
| 48 | IOC1 | 2732 | 165/18 | L | 165/25 | 165/27 | | | |
| 49 | IPL | 2750 | 165/43 | D | 180/56 | 181/06 | 182/01 | 262/37 | 323/03 |
| 50 | IPLA | 3070 | 167/04 | D | 186/26 | S | 186/28 | S | |
| 51 | IPLB | 3222 | 160/09 | | 167/21 | S | 167/23 | 168/18 | L 186/22 S 195/45 |
| 52 | IPLC | 3007 | 166/17 | D | 262/36 | S | | | |
| 53 | IPLD | 3152 | 167/42 | D | 186/10 | S | | | |
| 54 | IPLD | 3152 | 167/42 | D | 186/10 | S | | | |
| 55 | IPLD | 3152 | 167/42 | D | 186/10 | S | | | |
| 56 | IPLD | 3152 | 167/42 | D | 186/10 | S | | | |
| 57 | IPLD | 3152 | 167/42 | D | 186/10 | S | | | |
| 58 | IPLD | 3152 | 167/42 | D | 186/10 | S | | | |
| 59 | IPLD | 3152 | 167/42 | D | 186/10 | S | | | |
| 60 | IPLD | 3152 | 167/42 | D | 186/10 | S | | | |

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|----|-------|------|----------|----------|----------|----------|----------|----------|----------|
| | RCA5 | 5573 | 189/28 | 189/31 L | | | | | |
| | RCA6 | 5610 | 189/32 | 189/40 | 189/43 L | | | | |
| | RCA7 | 5612 | 189/34 | 189/47 L | | | | | |
| 1 | RCA8 | 5624 | 188/45 | 188/50 | 189/18 | 189/42 | 190/03 L | 324/08 | |
| 2 | RCA9 | 5627 | 190/05 L | 190/09 | | | | | |
| 3 | RCS | 6302 | 183/54 | 188/47 | 191/27 | | | | |
| 4 | REI | 4205 | 171/41 | | | | | | |
| 5 | RLS | 4247 | 173/11 | | | | | | |
| 6 | RNC | 5747 | 179/49 | 191/32 D | | | | | |
| 7 | RNCX | 5746 | 191/32 L | 192/09 | | | | | |
| 8 | RNC1 | 5766 | 191/36 | 191/43 L | | | | | |
| 9 | RNC2 | 6000 | 191/41 | 191/52 L | | | | | |
| 10 | RNC3 | 6013 | 192/01 L | 192/03 | | | | | |
| 11 | RNC4 | 6016 | 192/04 L | 192/08 | | | | | |
| 12 | RNC5 | 5735 | 191/26 L | 191/45 | 191/48 | | | | |
| 13 | RNC6 | 5744 | 191/28 | 191/30 L | | | | | |
| 14 | RQC | 3351 | 170/41 D | 172/45 | 173/15 | | | | |
| 15 | RQCX | 3350 | 170/41 L | 170/46 | 170/52 | | | | |
| 16 | RQC1 | 3354 | 170/42 | 170/44 L | | | | | |
| 17 | RQC2 | 3363 | 170/47 | 170/50 L | | | | | |
| 18 | RQE | 3370 | 171/15 D | 172/49 | | | | | |
| 19 | RQEX | 3367 | 171/15 L | 171/24 | 171/30 | 171/42 | | | |
| 20 | RQE1 | 3403 | 171/17 | 171/19 | 171/25 L | | | | |
| 21 | RQE2 | 3430 | 171/31 | 171/40 L | | | | | |
| 22 | RQS | 3436 | 153/23 | 172/17 D | 256/45 | | | | |
| 23 | RQSA | 3437 | 172/18 L | 256/42 S | | | | | |
| 24 | RQSB | 3447 | 172/27 L | 179/06 S | | | | | |
| 25 | RQSC | 3451 | 172/30 L | 173/50 | 179/07 | 179/08 S | 197/47 | 197/47 S | |
| 26 | RQSD | 3471 | 152/04 S | 152/31 S | 166/55 S | 172/40 S | 173/22 | | |
| 27 | | | 152/10 S | 152/33 | 172/37 | 172/44 D | 256/39 S | | |
| 28 | RQSE | 3476 | 172/42 S | 172/48 D | 173/24 | 256/41 S | | | |
| 29 | RQSF | 3507 | 171/18 | 172/56 D | 198/21 S | | | | |
| 30 | RQSG | 3515 | 173/07 D | 178/06 S | 195/23 | | | | |
| 31 | RQSJ | 3517 | 173/09 L | 197/48 | 197/48 S | | | | |
| 32 | RQSX | 3435 | 172/17 L | 172/51 | | | | | |
| 33 | RQS0 | 3453 | 172/35 L | 197/47 | | | | | |
| 34 | RQS1 | 3454 | 172/27 | 172/36 L | | | | | |
| 35 | RQS10 | 3553 | 173/01 | 173/35 L | | | | | |
| 36 | RQS2 | 3465 | 172/30 | 172/38 | 172/41 L | | | | |
| 37 | RQS3 | 3466 | 172/42 L | 173/50 | 179/07 | | | | |
| 38 | RQS4 | 3470 | 172/20 | 172/33 | 172/43 L | | | | |
| 39 | RQS5 | 3504 | 172/46 | 172/50 | 172/53 L | | | | |
| 40 | RQS6 | 3511 | 173/01 L | 173/04 | | | | | |
| 41 | RQS7 | 3513 | 172/57 | 173/03 L | | | | | |
| 42 | RQS8 | 3523 | 173/14 L | 197/48 | | | | | |
| 43 | RQS9 | 3527 | 173/08 | 173/12 | 173/16 L | | | | |
| 44 | RRR | 4156 | 167/07 | 186/31 | | | | | |
| 45 | RRRA | 4157 | 186/34 | 186/34 S | | | | | |
| 46 | RRRB | 4174 | 186/34 S | | | | | | |
| 47 | RRRC | 4177 | 186/34 S | | | | | | |
| 48 | RRRX | 4155 | 186/34 | | | | | | |
| 49 | RSI | 4273 | 170/51 | | | | | | |
| 50 | RTIME | 6125 | 193/26 L | 194/32 | | | | | |
| 51 | SAF | 6566 | 149/20 | 189/33 | | | | | |
| 52 | SCL | 1426 | 145/18 | 145/29 | 150/46 D | 174/31 | 276/27 | | |
| 53 | SCLA | 1433 | 150/52 D | 276/22 S | 276/24 S | | | | |
| 54 | SCLB | 1437 | 150/54 L | 152/39 | 152/40 | 180/55 | 180/55 S | 262/22 | 262/23 S |

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|----|---------|------|----------|----------|----------|----------|----------|----------|--------|
| | SCLC | 1506 | 151/28 | 151/34 L | 180/50 S | 273/57 | 275/25 | | |
| | SCLD | 1520 | 149/50 | 149/51 S | 151/44 L | 152/41 | 273/46 | 273/47 S | |
| | SCLE | 1433 | 150/48 L | 152/38 | 181/38 | 181/39 S | 274/26 S | | |
| 1 | SCLX | 1425 | 150/36 | 150/46 L | 151/39 | 152/38 | 152/40 | 180/55 | 181/38 |
| 2 | SCL1 | 1471 | 151/18 | 151/22 L | | | | | |
| 3 | SCL11 | 1577 | 152/13 | 152/26 L | | | | | |
| 4 | SCL11.1 | 1603 | 152/07 | 152/29 L | | | | | |
| 5 | SCL12 | 1605 | 152/24 | 152/31 L | | | | | |
| 6 | SCL13 | 1607 | 152/22 | 152/29 | 152/32 L | | | | |
| 7 | SCL14 | 1410 | 150/35 L | 150/54 | | | | | |
| 8 | SCL14.1 | 1413 | 150/37 L | 151/49 | | | | | |
| 9 | SCL15 | 1417 | 150/40 L | 152/39 | 262/22 | | | | |
| 10 | SCL1.1 | 1475 | 151/20 | 151/27 L | | | | | |
| 11 | SCL1.2 | 1502 | 151/25 | 151/31 L | | | | | |
| 12 | SCL2 | 1504 | 151/23 | 151/33 L | | | | | |
| 13 | SCL3 | 1513 | 151/29 | 151/39 L | | | | | |
| 14 | SCL4 | 1515 | 151/34 | 151/38 | 151/41 L | | | | |
| 15 | SCL5 | 1522 | 149/50 | 151/43 | 151/47 L | 152/41 | 273/46 | | |
| 16 | SCL7 | 1522 | 150/11 | 151/48 L | 276/21 | | | | |
| 17 | SCL8 | 1542 | 151/57 | 152/03 L | | | | | |
| 18 | SCL9 | 1570 | 152/16 | 152/19 L | | | | | |
| 19 | SFCT | 6244 | 192/48 | 194/29 L | | | | | |
| 20 | SLDR | 10 | 151/19 | 174/54 L | | | | | |
| 21 | SOPT | 6237 | 192/43 | 194/22 L | | | | | |
| 22 | SPF | 1311 | 145/23 | 149/19 D | | | | | |
| 23 | SPFA | 1361 | 149/53 L | 181/47 S | 181/48 S | | | | |
| 24 | SPFX | 1310 | 149/19 L | 149/21 | 149/38 | | | | |
| 25 | SPF1 | 1354 | 149/40 | 149/50 L | | | | | |
| 26 | SPF2 | 1304 | 149/16 L | 149/32 | 149/34 | | | | |
| 27 | SPL | 4551 | 200/32 D | | | | | | |
| 28 | SPLX | 4550 | 200/01 | 200/32 L | 200/37 | 200/40 | 200/49 | | |
| 29 | SPL1 | 4617 | 201/02 | 201/11 L | | | | | |
| 30 | SPL2 | 4623 | 200/55 | 201/15 L | | | | | |
| 31 | SRR | 4140 | 167/02 | 186/24 | | | | | |
| 32 | SRRA | 4141 | 186/34 | 186/34 S | | | | | |
| 33 | SRRX | 4137 | 186/34 | | | | | | |
| 34 | SRR\$ | 1 | 177/18 D | | | | | | |
| 35 | SSC | 3575 | 149/53 | 151/31 | 174/14 L | 274/23 | | | |
| 36 | SSCA | 3605 | 174/15 S | 174/20 D | 174/25 | | | | |
| 37 | SSCB | 3642 | 174/14 | 174/26 | 174/43 L | | | | |
| 38 | SSCC | 3603 | 174/17 L | 181/18 | 181/18 S | | | | |
| 39 | SSC1 | 3624 | 174/28 | 174/31 L | | | | | |
| 40 | SSC2 | 3640 | 174/38 L | 181/18 | | | | | |
| 41 | SSF | 6027 | 181/05 | 192/31 D | | | | | |
| 42 | SSFA | 6157 | 193/06 S | 193/49 L | | | | | |
| 43 | SSFB | 6214 | 192/44 S | 194/13 | 194/17 L | | | | |
| 44 | SSFC | 6217 | 194/03 | 194/05 S | 194/07 S | 194/11 S | 194/18 L | | |
| 45 | SSFD | 6224 | 193/34 S | 193/36 S | 194/19 L | | | | |
| 46 | SSFX | 6026 | 192/31 L | 192/33 | 192/36 | 192/39 | 192/45 | | |
| 47 | SSF1 | 6045 | 192/42 L | 192/47 | | | | | |
| 48 | SSF2 | 6150 | 193/11 | 193/44 L | | | | | |
| 49 | SSF3 | 6151 | 193/30 | 193/45 L | | | | | |
| 50 | SSF4 | 6203 | 193/55 | 194/10 L | | | | | |
| 51 | SSF5 | 6206 | 194/01 | 194/08 | 194/12 L | | | | |
| 52 | STA | 7541 | 186/25 | | | | | | |
| 53 | STIME | 6133 | 193/32 L | 194/33 | | | | | |
| 54 | STK | 3660 | 155/03 | 175/21 D | 190/30 | | | | |

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|------|------|--------|---|--------|--------|--------|--------|--------|---|
| STKX | 3657 | 175/21 | L | 175/29 | 176/21 | | | | |
| STK1 | 3700 | 175/33 | L | 175/43 | 175/45 | | | | |
| STK2 | 3707 | 175/37 | | 175/40 | L | | | | |
| STK3 | 3715 | 175/49 | L | 175/53 | | | | | |
| STK4 | 3723 | 176/01 | L | 176/09 | | | | | |
| STK5 | 3724 | 175/39 | | 176/02 | L | | | | |
| STK6 | 3735 | 175/54 | | 176/13 | L | 176/18 | | | |
| STK7 | 3744 | 176/15 | | 176/20 | L | | | | |
| STK8 | 3656 | 175/19 | L | 175/24 | | | | | |
| TA | 35 | 144/50 | D | 186/34 | S | 186/34 | S | | |
| TCS | 1102 | 145/09 | | 145/11 | L | | | | |
| TCSA | 1104 | 145/13 | L | 151/48 | | 181/09 | 195/19 | 262/34 | S |
| | | 150/35 | | 160/20 | S | 192/32 | 197/53 | S | |
| TCSB | 1116 | 145/25 | D | 181/29 | S | | | | |
| TCSC | 1120 | 145/28 | D | 181/34 | S | | | | |
| TCSD | 1125 | 145/31 | D | 164/31 | | 197/30 | S | | |
| TCSE | 1130 | 145/34 | D | 197/32 | S | | | | |
| TCSF | 1143 | 145/41 | L | 181/55 | S | 323/06 | S | | |
| TCSG | 1145 | 145/44 | D | 181/50 | S | | | | |
| TCSX | 1100 | 142/02 | | 145/09 | L | | | | |
| TCS1 | 1105 | 145/15 | L | 180/57 | | | | | |
| TCS2 | 1111 | 145/16 | | 145/18 | L | 262/38 | | | |
| TCS3 | 1114 | 145/21 | L | 181/07 | | 182/02 | | | |
| TCS4 | 1122 | 145/22 | | 145/29 | L | | | | |
| TCS5 | 1132 | 145/32 | | 145/36 | L | | | | |
| TCS6 | 1136 | 145/19 | | 145/35 | | 145/38 | L | 180/53 | |
| TN | 32 | 144/48 | D | 186/23 | S | | | | |
| TSS | 3751 | 158/49 | | 176/38 | D | | | | |
| TSSA | 3771 | 176/45 | | 176/49 | | 176/55 | L | 177/06 | |
| TSSL | 10 | 176/41 | | 177/06 | D | | | | |
| TSSX | 3750 | 176/38 | L | 176/51 | | | | | |
| TSS1 | 3756 | 176/43 | L | 176/48 | | | | | |
| TSS2 | 3747 | 176/36 | L | 176/40 | | 176/44 | | | |
| TT | 33 | 144/49 | D | | | | | | |
| UPS | 6634 | 180/44 | | 184/04 | | 189/13 | | | |
| .EJT | 6263 | 180/03 | | 180/09 | | 185/51 | 197/54 | | |
| .4 | 6705 | 199/16 | D | 199/21 | | | | | |

SYMBOL QUALIFIER = LDR

| | | | | | | | | | | | | |
|------|------|--------|---|--------|---|--------|---|--------|--------|--------|--------|--------|
| CEL | 2172 | 212/54 | | 215/36 | D | | | | | | | |
| CELX | 2171 | 215/36 | L | 216/14 | | | | | | | | |
| CRA | 2562 | 217/15 | | 218/43 | | | | | | | | |
| ELDR | 1632 | 210/12 | D | 212/03 | | | | | | | | |
| FN | 32 | 219/09 | D | | | | | | | | | |
| LDE | 1545 | 205/49 | | 207/43 | | 209/41 | L | 212/23 | 213/01 | 213/13 | 214/05 | 215/17 |
| LDE1 | 1563 | 209/45 | | 209/53 | L | | | | | | | |
| LDE2 | 1603 | 209/56 | | 210/06 | L | | | | | | | |
| LDR | 1100 | 203/02 | | 205/09 | L | | | | | | | |
| LDRA | 1404 | 206/28 | S | 208/05 | L | | | | | | | |
| LDRB | 1513 | 206/11 | S | 206/17 | S | 209/15 | L | 246/37 | 246/39 | | | |
| LDRC | 1520 | 207/42 | | 209/19 | L | | | | | | | |
| LDRD | 1540 | 205/34 | S | 206/47 | S | 209/20 | D | | | | | |

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|----|---------|------|----------|----------|----------|----------|--------|----------|
| | LDRE | 1543 | 206/54 S | 206/56 S | 209/21 D | | | |
| | LDR1 | 1154 | 205/24 | 205/28 | 205/48 L | 206/05 | | |
| | LDR10 | 1364 | 206/34 | 207/47 L | | | | |
| 1 | LDR11 | 1365 | 207/18 | 207/48 L | | | | |
| 2 | LDR12 | 1373 | 207/32 | 207/41 | 207/54 L | | | |
| 3 | LDR12.1 | 1401 | 207/55 | 208/02 L | | | | |
| 4 | LDR13 | 1412 | 208/07 | 208/09 | 208/14 L | | | |
| 5 | LDR14 | 1433 | 208/18 | 208/23 L | | | | |
| 6 | LDR15 | 1461 | 208/10 | 208/48 L | | | | |
| 7 | LDR16 | 1474 | 208/44 | 209/01 L | | | | |
| 8 | LDR2 | 1160 | 205/47 | 205/51 L | | | | |
| 9 | LDR3 | 1170 | 205/56 | 206/02 L | | | | |
| 10 | LDR4 | 1233 | 205/57 | 206/24 L | | | | |
| 11 | LDR5 | 1250 | 206/33 | 206/36 L | | | | |
| 12 | LDR6 | 1265 | 206/38 | 206/51 L | | | | |
| 13 | LDR7 | 1325 | 207/05 | 207/20 L | | | | |
| 14 | LDR8 | 1360 | 207/21 | 207/42 L | | | | |
| 15 | LDR9 | 1362 | 207/43 L | 207/57 | | | | |
| 16 | LV | 66 | 204/51 D | 206/08 | 208/08 | 214/16 | 218/30 | |
| 17 | | | 205/53 S | 206/25 S | 212/47 | 218/24 | | |
| 18 | PF | 65 | 204/50 D | 214/21 | | | | |
| 19 | RI | 16 | 217/12 S | 217/14 S | 218/36 S | 218/38 S | 218/39 | 219/10 D |
| 20 | SAF | 2466 | 212/13 | | | | | |
| 21 | SFB | 2543 | 212/18 | | | | | |
| 22 | SF0 | 1633 | 212/04 D | | | | | |
| 23 | SF0A | 1755 | 212/12 S | 213/16 L | | | | |
| 24 | SF0B | 2127 | 214/33 S | 214/51 L | | | | |
| 25 | SF0C | 2164 | 214/50 S | 215/20 D | | | | |
| 26 | SFOX | 1632 | 211/01 | 212/04 L | 214/25 | 215/23 | | |
| 27 | SF00 | 1642 | 212/06 | 212/11 L | | | | |
| 28 | SF01 | 1646 | 212/09 | 212/13 L | | | | |
| 29 | SF010 | 1776 | 213/31 L | 213/56 | | | | |
| 30 | SF011 | 2010 | 213/33 | 213/40 L | | | | |
| 31 | SF012 | 2012 | 213/38 | 213/42 L | | | | |
| 32 | SF013 | 2014 | 213/41 | 213/43 L | | | | |
| 33 | SF014 | 2022 | 213/45 | 213/49 L | | | | |
| 34 | SF015 | 2035 | 213/56 L | 214/09 | | | | |
| 35 | SF016 | 2037 | 213/48 | 214/03 L | 217/41 | 219/01 | | |
| 36 | SF017 | 2045 | 214/07 L | 214/14 | 214/17 | | | |
| 37 | SF018 | 2051 | 213/27 | 213/51 | 214/13 L | | | |
| 38 | SF019 | 2066 | 214/24 | 214/27 L | | | | |
| 39 | SF02 | 1654 | 212/14 | 212/18 L | | | | |
| 40 | SF020 | 2100 | 214/31 | 214/34 L | | | | |
| 41 | SF021 | 2110 | 214/36 | 214/40 L | | | | |
| 42 | SF022 | 2121 | 214/44 | 214/46 L | | | | |
| 43 | SF023 | 2132 | 214/55 L | 215/14 | | | | |
| 44 | SF024 | 2152 | 214/57 | 215/03 | 215/06 | 215/11 L | | |
| 45 | SF025 | 2156 | 214/48 | 215/15 L | | | | |
| 46 | SF026 | 2164 | 215/10 | 215/19 L | | | | |
| 47 | SF03 | 1663 | 212/16 | 212/23 L | 212/36 | | | |
| 48 | SF04 | 1665 | 212/19 | 212/25 L | | | | |
| 49 | SF05 | 1702 | 212/34 | 212/38 L | | | | |
| 50 | SF05.1 | 1727 | 212/48 | 212/57 L | | | | |
| 51 | SF06 | 1731 | 213/01 L | 213/09 | | | | |
| 52 | SF07 | 1733 | 212/40 | 212/46 | 212/55 | 213/03 L | | |
| 53 | SF08 | 1743 | 213/07 | 213/11 L | | | | |
| 54 | SF09 | 1774 | 213/18 | 213/23 | 213/27 L | | | |

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|----------|------|--------|----------|---|--------|--------|----------|--------|--------|
| SOD | 2244 | 213/19 | 216/37 | D | | | | | |
| SODX | 2243 | 216/37 | L 217/04 | | 218/56 | | | | |
| SOD1 | 2251 | 216/39 | 216/42 | L | | | | | |
| SOD10 | 2376 | 217/51 | 217/57 | L | | | | | |
| SOD11 | 2416 | 218/02 | 218/05 | | 218/08 | 218/13 | L 218/25 | 218/29 | 218/31 |
| SOD12 | 2423 | 218/12 | 218/21 | L | | | | | |
| SOD13 | 2432 | 218/23 | 218/28 | L | | | | | |
| SOD14 | 2436 | 218/26 | 218/35 | L | | | | | |
| SOD15 | 2461 | 218/40 | 218/44 | | 219/01 | L | | | |
| SOD2 | 2273 | 216/57 | L 217/07 | | 217/10 | 217/16 | 217/22 | 217/33 | |
| SOD3 | 2301 | 216/56 | 217/06 | L | | | | | |
| SOD3.1 | 2327 | 216/55 | 217/20 | L | | | | | |
| SOD4 | 2333 | 217/21 | 217/24 | L | | | | | |
| SOD5 | 2346 | 217/26 | 217/33 | L | | | | | |
| SOD6 | 2350 | 217/37 | L 217/54 | | | | | | |
| SOD6.1 | 2354 | 217/20 | 217/39 | L | | | | | |
| SOD7 | 2360 | 217/41 | L 217/55 | | | | | | |
| SOD8 | 2362 | 217/40 | 217/45 | L | | | | | |
| SOD9 | 2367 | 217/31 | 217/49 | L | 218/17 | | | | |
| WC | 16 | 204/49 | D 213/49 | | 213/55 | S | | | |
| .READSTR | 4 | 213/15 | D 213/15 | | | | | | |

SYMBOL QUALIFIER = 3AE

| | | | | | | | | | | |
|-------|------|--------|----------|--------|--------|--------|--------|--------|----------|--------|
| CCM | 7060 | 221/45 | 245/39 | D | | | | | | |
| CCMA | 7140 | 205/39 | S 205/44 | S | 246/21 | D | | | | |
| CCMB | 7160 | 206/23 | S 246/35 | L | | | | | | |
| CCMC | 7174 | 245/47 | S 246/45 | L | | | | | | |
| CCMX | 7057 | 245/39 | L | | | | | | | |
| CCM1 | 7120 | 245/41 | 246/04 | L | | | | | | |
| CCM10 | 7056 | 245/30 | 245/37 | L | 245/43 | | | | | |
| CCM2 | 7127 | 246/02 | 246/11 | L | | | | | | |
| CCM3 | 7151 | 246/24 | 246/28 | L | | | | | | |
| CCM4 | 7155 | 246/22 | 246/32 | L | | | | | | |
| CCM5 | 7167 | 246/36 | 246/40 | L | | | | | | |
| CCM6 | 7205 | 246/50 | 246/52 | L | | | | | | |
| CCM7 | 7232 | 246/48 | 247/13 | L | | | | | | |
| CCM8 | 7242 | 247/16 | 247/18 | L | | | | | | |
| CCM9 | 7037 | 245/27 | L 245/44 | | | | | | | |
| CDP | 6274 | 222/01 | 238/15 | D | 245/42 | | | | | |
| CDPX | 6273 | 238/15 | L 238/25 | | 238/28 | | | | | |
| CL | 6503 | 22/41 | S 151/14 | S | 207/38 | S | 228/43 | 241/27 | L 244/27 | 245/35 |
| | | 151/08 | S | 207/27 | S | 226/13 | 228/46 | 243/22 | S | 244/29 |
| | | 151/12 | S | 207/36 | S | 228/40 | 228/51 | 243/32 | S | 245/33 |
| CLD | 6512 | 22/04 | 150/53 | | 207/20 | | 235/08 | | | |
| CMS | 4640 | 221/38 | 222/08 | | 222/52 | L | | | | |
| CMSA | 4640 | 205/38 | S 205/43 | S | 222/53 | D | | | | |
| CMSB | 4671 | 206/13 | S 206/19 | S | 223/21 | L | | | | |
| CMSC | 4702 | 223/15 | S 223/27 | D | | | | | | |
| CMSD | 4713 | 223/35 | L 235/35 | S | 238/26 | S | | | | |
| CMSE | 4734 | 206/10 | S 206/22 | S | 223/51 | L | | | | |
| CMSF | 5026 | 223/43 | S 224/16 | S | 224/40 | | 224/48 | L | 235/37 | S |
| CMS1 | 4646 | 222/54 | 223/01 | L | | | | | | |

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|----|-------|------|--------|---|--------|--------|--------|--------|--------|
| | CMS10 | 4635 | 222/49 | L | 223/24 | 224/06 | 240/56 | | |
| | CMS2 | 4660 | 223/13 | L | 223/44 | | | | |
| | CMS3 | 4730 | 223/34 | | 223/41 | 223/46 | L | | |
| 1 | CMS4 | 4731 | 223/37 | | 223/48 | L | | | |
| 2 | CMS5 | 4754 | 223/40 | | 224/05 | 224/08 | L | | |
| 3 | CMS6 | 4756 | 224/03 | | 224/10 | L | | | |
| 4 | CMS7 | 4766 | 223/46 | | 224/18 | L | | | |
| 5 | CMS8 | 5013 | 224/24 | | 224/39 | L | | | |
| 6 | CMS9 | 4632 | 222/44 | L | 223/02 | | | | |
| 7 | CPD | 6314 | 238/45 | D | 241/08 | 241/18 | | | |
| 8 | CPDA | 6327 | 238/48 | S | 238/51 | D | | | |
| 9 | CPDX | 6313 | 238/45 | L | 239/06 | | | | |
| 10 | CPF | 6347 | 214/13 | | 222/07 | 239/38 | D | | |
| 11 | CPFX | 6346 | 239/38 | L | 240/26 | | | | |
| 12 | CPF1 | 6411 | 239/55 | | 240/11 | L | | | |
| 13 | CPF2 | 6417 | 240/13 | | 240/17 | L | | | |
| 14 | CPF3 | 6432 | 240/15 | | 240/26 | L | | | |
| 15 | CPF4 | 6344 | 239/36 | L | 239/49 | | | | |
| 16 | CPH | 6435 | 230/40 | | 231/04 | 240/46 | D | | |
| 17 | CPHA | 6443 | 206/14 | S | 206/20 | S | 240/52 | L | |
| 18 | CPHB | 6473 | 241/05 | S | 241/14 | D | | | |
| 19 | CPHX | 6434 | 240/46 | L | 241/19 | | | | |
| 20 | CPH1 | 6450 | 240/55 | | 241/01 | L | 241/17 | | |
| 21 | CPH2 | 6477 | 241/03 | | 241/04 | 241/18 | L | | |
| 22 | CSA | 7020 | 221/43 | | 244/21 | D | | | |
| 23 | CSAX | 7017 | 244/21 | L | 244/26 | 244/32 | | | |
| 24 | CSF | 5500 | 223/12 | | 230/46 | D | | | |
| 25 | CSFA | 5537 | 231/06 | S | 231/09 | D | | | |
| 26 | CSFB | 5452 | 230/25 | D | 236/50 | S | 237/17 | S | 237/35 |
| 27 | CSFC | 5465 | 230/34 | S | 230/37 | D | | | |
| 28 | CSFD | 5615 | 208/16 | | 208/17 | 208/19 | 208/21 | 231/01 | S |
| 29 | CSFX | 5477 | 230/23 | | 230/43 | 230/46 | L | 231/39 | |
| 30 | CSF2 | 5516 | 230/52 | | 230/55 | L | | | |
| 31 | CSF3 | 5552 | 231/17 | | 231/19 | L | | | |
| 32 | CSF4 | 5605 | 231/26 | | 231/34 | L | | | |
| 33 | CSF5 | 5446 | 230/22 | L | 230/49 | | | | |
| 34 | DDT | 6532 | 224/02 | | 246/47 | | | | |
| 35 | EJTB | 7272 | 249/04 | S | 249/04 | S | | | |
| 36 | EJT\$ | 1 | 248/39 | D | | | | | |
| 37 | FNTB | 7300 | 249/04 | S | 249/04 | S | | | |
| 38 | IFP | 7314 | 248/20 | | 249/04 | D | | | |
| 39 | IFPX | 7313 | 249/04 | L | 249/04 | | | | |
| 40 | LCP | 4556 | 154/20 | | 207/54 | 221/35 | D | | |
| 41 | LCPX | 4555 | 221/35 | L | 229/05 | 235/04 | 243/35 | S | 247/19 |
| 42 | | | 222/12 | | 233/09 | 235/11 | 246/26 | | |
| 43 | LCP1 | 4563 | 221/37 | | 221/40 | L | 235/38 | | |
| 44 | LCP2 | 4575 | 221/42 | | 221/44 | 221/47 | L | | |
| 45 | LCP3 | 4612 | 221/46 | | 222/02 | L | | | |
| 46 | LCP4 | 4621 | 222/07 | L | 243/36 | | | | |
| 47 | LCP5 | 4624 | 222/09 | L | 222/45 | 222/50 | | | |
| 48 | LCR | 4551 | 221/07 | D | | | | | |
| 49 | LCRX | 4550 | 220/02 | | 221/07 | L | 221/09 | | |
| 50 | LDOT | 5151 | 226/27 | D | 248/30 | S | | | |
| 51 | LDU | 6764 | 150/09 | | 243/19 | D | 276/29 | | |
| 52 | LDUX | 6763 | 243/19 | L | 243/34 | | | | |
| 53 | LEC | 5620 | 230/44 | | 231/18 | 232/19 | D | | |
| 54 | LECA | 5700 | 232/32 | S | 233/02 | D | 233/14 | S | 233/39 |

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|----|--------|------|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|---|--|--|--|--|--|--|
| | LECX | 5617 | 232/19 | L | 232/36 | 233/46 | | | | | | | | | | | | | | | |
| | LEC1 | 5622 | 232/22 | L | 232/41 | 233/44 | | | | | | | | | | | | | | | |
| | LEC10 | 5761 | 233/43 | | 233/46 | L | | | | | | | | | | | | | | | |
| 1 | LEC2 | 5631 | 232/20 | | 232/25 | L | | | | | | | | | | | | | | | |
| 2 | LEC3 | 5654 | 232/40 | L | 233/34 | | | | | | | | | | | | | | | | |
| 3 | LEC4 | 5656 | 232/34 | | 232/38 | 232/42 | L | | | | | | | | | | | | | | |
| 4 | LEC5 | 5662 | 232/44 | | 232/46 | L | | | | | | | | | | | | | | | |
| 5 | LEC6 | 5714 | 233/05 | | 233/07 | 233/11 | L | | | | | | | | | | | | | | |
| 6 | LEC7 | 5734 | 233/22 | | 233/26 | L | | | | | | | | | | | | | | | |
| 7 | LEC8 | 5746 | 232/29 | | 233/25 | 233/36 | L | | | | | | | | | | | | | | |
| 8 | LEC9 | 5751 | 233/31 | | 233/39 | L | | | | | | | | | | | | | | | |
| 9 | MSR | 5763 | 213/54 | | 217/39 | 224/08 | 232/24 | 234/28 | L | 239/47 | 241/12 | | | | | | | | | | |
| 10 | MSRA | 6012 | 205/16 | S | 234/49 | D | | | | | | | | | | | | | | | |
| 11 | MSRB | 6026 | 213/12 | S | 235/03 | D | | | | | | | | | | | | | | | |
| 12 | MSRC | 6031 | 213/14 | S | 235/06 | D | | | | | | | | | | | | | | | |
| 13 | MSR1 | 6012 | 234/39 | | 234/47 | L | | | | | | | | | | | | | | | |
| 14 | MSR1.1 | 6020 | 234/50 | | 234/53 | L | | | | | | | | | | | | | | | |
| 15 | MSR2 | 6024 | 234/32 | | 234/35 | 234/56 | L | 247/14 | | | | | | | | | | | | | |
| 16 | MSR3 | 6026 | 235/01 | L | 235/20 | | | | | | | | | | | | | | | | |
| 17 | MSR4 | 6032 | 234/57 | | 235/08 | L | 245/54 | | | | | | | | | | | | | | |
| 18 | MSR5 | 6041 | 235/09 | | 235/13 | L | | | | | | | | | | | | | | | |
| 19 | PF | 65 | 220/48 | D | 229/22 | 236/01 | S | | | | | | | | | | | | | | |
| 20 | PRS | 7247 | 221/08 | | 248/19 | D | | | | | | | | | | | | | | | |
| 21 | PRSX | 7246 | 248/19 | L | 248/31 | | | | | | | | | | | | | | | | |
| 22 | QFTB | 7306 | 249/04 | S | 249/04 | S | | | | | | | | | | | | | | | |
| 23 | REP | 5426 | 227/48 | | 228/35 | 229/21 | D | | | | | | | | | | | | | | |
| 24 | REPA | 5443 | 229/29 | S | 229/32 | D | | | | | | | | | | | | | | | |
| 25 | REPX | 5425 | 229/21 | L | 229/34 | | | | | | | | | | | | | | | | |
| 26 | RNS | 6735 | 213/53 | | 216/54 | 217/19 | 217/38 | 223/39 | 232/23 | 239/46 | 241/11 | | | | | | | | | | |
| 27 | SCRB | 7246 | 245/52 | | 245/57 | 247/02 | S | 247/03 | 248/01 | D | 248/02 | | | | | | | | | | |
| 28 | SCRBL | 7750 | 248/02 | D | 248/03 | | | | | | | | | | | | | | | | |
| 29 | SLP | 5033 | 224/45 | | 225/18 | L | 247/11 | | | | | | | | | | | | | | |
| 30 | SLPA | 5042 | 214/08 | S | 214/28 | 225/20 | D | 236/49 | S | 237/37 | S | | | | | | | | | | |
| 31 | SLPB | 5073 | 205/17 | S | 225/46 | L | | | | | | | | | | | | | | | |
| 32 | SLPC | 5210 | 226/56 | D | 231/38 | S | 236/07 | S | | | | | | | | | | | | | |
| 33 | SLPD | 5260 | 150/03 | S | 212/08 | S | 227/27 | L | | | | | | | | | | | | | |
| 34 | SLPE | 5263 | 153/47 | S | 227/31 | D | | | | | | | | | | | | | | | |
| 35 | SLPF | 5275 | 160/11 | S | 227/41 | L | | | | | | | | | | | | | | | |
| 36 | SLPG | 5324 | 228/05 | D | 228/57 | 236/17 | S | 236/23 | S | 236/38 | S | 236/51 | S | 237/38 | S | | | | | | |
| 37 | SLPH | 5366 | 226/15 | S | 228/38 | D | 236/19 | S | | | | | | | | | | | | | |
| 38 | SLP1 | 5073 | 225/28 | | 225/35 | 225/45 | L | | | | | | | | | | | | | | |
| 39 | SLP10 | 5336 | 228/02 | | 228/12 | L | | | | | | | | | | | | | | | |
| 40 | SLP11 | 5360 | 227/44 | | 228/33 | L | | | | | | | | | | | | | | | |
| 41 | SLP12 | 5362 | 228/35 | L | 229/02 | | | | | | | | | | | | | | | | |
| 42 | SLP13 | 5411 | 228/10 | | 228/39 | 228/53 | L | | | | | | | | | | | | | | |
| 43 | SLP14 | 5413 | 228/42 | | 228/45 | 228/48 | 228/52 | 228/56 | L | | | | | | | | | | | | |
| 44 | SLP15 | 5421 | 229/01 | | 229/04 | L | | | | | | | | | | | | | | | |
| 45 | SLP16 | 5423 | 228/54 | | 229/05 | L | | | | | | | | | | | | | | | |
| 46 | SLP2 | 5130 | 225/48 | | 226/09 | 226/13 | L | | | | | | | | | | | | | | |
| 47 | SLP3 | 5135 | 226/14 | | 226/16 | L | | | | | | | | | | | | | | | |
| 48 | SLP4 | 5217 | 227/03 | | 227/06 | L | | | | | | | | | | | | | | | |
| 49 | SLP5 | 5240 | 227/01 | | 227/11 | 227/16 | L | | | | | | | | | | | | | | |
| 50 | SLP6 | 5257 | 227/14 | | 227/17 | 227/26 | L | | | | | | | | | | | | | | |
| 51 | SLP7 | 5301 | 227/43 | | 227/46 | L | | | | | | | | | | | | | | | |
| 52 | SLP8 | 5303 | 227/48 | L | 228/06 | | | | | | | | | | | | | | | | |
| 53 | SLP9 | 5322 | 227/52 | | 227/55 | 228/03 | L | | | | | | | | | | | | | | |
| 54 | SPF | 6105 | 236/03 | D | 240/11 | 247/05 | | | | | | | | | | | | | | | |

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|----------|------|----------|----------|----------|--------|----------|--------|--------|----------|--|--|--|--|--|--|--|--|--|--|
| SPFA | 6272 | 154/24 | 236/47 S | 237/43 L | | | | | | | | | | | | | | | |
| SPFB | 6243 | 151/04 | 151/05 S | 237/20 L | 237/45 | | | | | | | | | | | | | | |
| SPFC | 6254 | 237/26 S | 237/30 D | | | | | | | | | | | | | | | | |
| SPFX | 6104 | 236/03 L | | | | | | | | | | | | | | | | | |
| SPF1 | 6125 | 236/17 L | 236/30 | | | | | | | | | | | | | | | | |
| SPF2 | 6133 | 236/15 | 236/22 L | 236/32 | | | | | | | | | | | | | | | |
| SPF3 | 6141 | 236/12 | 236/27 L | | | | | | | | | | | | | | | | |
| SPF4 | 6154 | 236/34 | 236/37 L | | | | | | | | | | | | | | | | |
| SPF4.1 | 6230 | 237/13 L | 237/19 | | | | | | | | | | | | | | | | |
| SPF4.2 | 6255 | 151/04 | 237/15 | 237/31 L | 237/45 | | | | | | | | | | | | | | |
| SPF5 | 6257 | 236/40 | 237/34 L | | | | | | | | | | | | | | | | |
| SPF6 | 6270 | 237/32 | 237/40 L | | | | | | | | | | | | | | | | |
| SPF7 | 6101 | 235/57 L | 236/08 | 236/10 | 236/35 | 237/13 | | | | | | | | | | | | | |
| SPF8 | 6103 | 236/01 L | 236/20 | 236/25 | 237/40 | | | | | | | | | | | | | | |
| WC | 16 | 220/47 D | 232/26 S | 232/28 | 232/37 | 232/40 S | 232/42 | 233/32 | 239/48 S | | | | | | | | | | |
| .EJT | 7275 | 248/24 | | | | | | | | | | | | | | | | | |
| .IO | 0 | 243/33 D | 243/33 | 245/45 D | 245/45 | | | | | | | | | | | | | | |
| .READSYS | 3 | 222/06 D | 222/06 | | | | | | | | | | | | | | | | |
| .STATUS | 5 | 245/27 D | 245/27 | | | | | | | | | | | | | | | | |
| .4 | 3241 | 249/11 D | 249/16 | | | | | | | | | | | | | | | | |

SYMBOL QUALIFIER = 3AF

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|-------|------|----------|----------|----------|----------|----------|----------|--------|--------|--|--|--|--|--|--|--|--|--|--|
| BUF | 6441 | 256/29 S | 257/55 S | 258/13 | 258/21 S | 262/49 L | | | | | | | | | | | | | |
| | | 256/31 | 257/57 S | 258/15 S | 258/54 | 262/54 | | | | | | | | | | | | | |
| EJTB | 6350 | 262/51 S | 262/51 S | | | | | | | | | | | | | | | | |
| EJT\$ | 1 | 262/44 D | | | | | | | | | | | | | | | | | |
| FN | 32 | 250/09 D | 256/38 | 256/47 S | 256/52 S | 257/21 | | | | | | | | | | | | | |
| | | 256/37 S | 256/40 | 256/49 S | 257/20 S | | | | | | | | | | | | | | |
| FNTB | 6356 | 262/51 S | 262/51 S | | | | | | | | | | | | | | | | |
| IDP | 6314 | 179/13 | 262/22 L | | | | | | | | | | | | | | | | |
| IFP | 6442 | 250/24 | 262/51 D | | | | | | | | | | | | | | | | |
| IFPX | 6441 | 262/51 L | 262/51 | | | | | | | | | | | | | | | | |
| ODFL | 5205 | 251/16 S | 251/33 | 253/01 D | 253/02 | | | | | | | | | | | | | | |
| PSR | 5311 | 22/47 | 253/25 L | | | | | | | | | | | | | | | | |
| PSRA | 5515 | 255/26 | 255/34 L | | | | | | | | | | | | | | | | |
| PSR1 | 5325 | 253/34 | 253/38 L | | | | | | | | | | | | | | | | |
| PSR2 | 5327 | 21/17 | 253/40 L | | | | | | | | | | | | | | | | |
| PSR3 | 5350 | 253/37 | 253/57 L | | | | | | | | | | | | | | | | |
| PSR4 | 5401 | 254/27 L | 254/39 | | | | | | | | | | | | | | | | |
| PSR5 | 5417 | 254/30 | 254/33 L | | | | | | | | | | | | | | | | |
| PSR6 | 5430 | 254/21 | 254/23 | 254/26 | 254/40 L | | | | | | | | | | | | | | |
| PSR7 | 5451 | 254/51 | 254/54 | 254/56 L | | | | | | | | | | | | | | | |
| PSR8 | 5511 | 255/16 | 255/28 L | | | | | | | | | | | | | | | | |
| QFTB | 6364 | 262/51 S | 262/51 S | | | | | | | | | | | | | | | | |
| RCF | 5203 | 18/40 | 20/38 | 170/22 | 251/48 D | 253/01 | | | | | | | | | | | | | |
| RCFA | 5135 | 251/02 S | 251/38 L | | | | | | | | | | | | | | | | |
| RCFB | 5144 | 251/43 | 252/33 | 259/28 | 259/51 | 260/47 S | 261/01 S | 261/14 | 261/26 | | | | | | | | | | |
| | | 251/46 L | 252/36 | 259/37 | 259/53 | 260/53 S | 261/03 S | 261/22 | | | | | | | | | | | |
| | | 252/30 S | 259/20 | 259/49 | 260/37 S | 260/55 S | 261/12 S | 261/23 | | | | | | | | | | | |
| RCFX | 5202 | 250/57 | 251/44 | 251/48 L | 252/49 | | | | | | | | | | | | | | |
| RCF1 | 5230 | 252/09 | 252/12 L | | | | | | | | | | | | | | | | |
| RCF10 | 5060 | 250/53 | 250/57 L | | | | | | | | | | | | | | | | |

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| | RCF11 | 5062 | 250/56 | 251/02 | L | |
| | RCF12 | 5064 | 251/06 | L | 252/47 | |
| | RCF13 | 5101 | 251/17 | L | 251/37 | |
| 1 | RCF13.1 | 5114 | 251/22 | 251/27 | L | |
| 2 | RCF13.2 | 5117 | 251/25 | 251/30 | L | |
| 3 | RCF14 | 5131 | 251/30 | 251/34 | L | |
| 4 | RCF15 | 5143 | 251/40 | 251/44 | L | |
| 5 | RCF2 | 5240 | 252/17 | 252/20 | L | |
| 6 | RCF3 | 5253 | 252/25 | 252/29 | L | |
| 7 | RCF4 | 5256 | 252/27 | 252/30 | L | |
| 8 | RCF7 | 5276 | 252/38 | 252/41 | L | |
| 9 | RCF8 | 5307 | 252/46 | 252/49 | L | |
| 10 | RCF9 | 5044 | 250/46 | L | 252/18 | |
| 11 | RFJ | 5522 | 178/51 | 255/57 | L | 323/38 |
| 12 | RFJ1 | 5553 | 256/18 | 256/22 | | 256/25 L |
| 13 | RFJ2 | 5565 | 256/11 | 256/13 | | 256/32 L |
| 14 | RFJ3 | 5567 | 256/08 | 256/34 | L | |
| 15 | RFJ4 | 5610 | 256/34 | 256/46 | L | |
| 16 | RFJ5 | 5624 | 256/56 | L | 257/22 | |
| 17 | RFJ6 | 5654 | 256/55 | 257/17 | L | |
| 18 | SAF | 6374 | 256/53 | | | |
| 19 | SDP | 5672 | 157/33 | 257/42 | L | |
| 20 | SDP1 | 5700 | 257/44 | 257/46 | L | |
| 21 | SDP2 | 5752 | 258/19 | 258/22 | L | |
| 22 | SDP3 | 5771 | 258/24 | 258/35 | L | |
| 23 | SDP4 | 6007 | 258/37 | 258/48 | L | |
| 24 | SEP | 5040 | 250/23 | D | | |
| 25 | SEPX | 5037 | 250/02 | 250/23 | L | 250/25 |
| 26 | SPR | 6025 | 252/40 | 259/14 | D | 261/42 |
| 27 | SPRX | 6024 | 259/14 | L | 260/10 | |
| 28 | SPR1 | 6040 | 259/19 | 259/28 | L | |
| 29 | SPR2 | 6044 | 259/23 | 259/26 | | 259/31 L |
| 30 | SPR3 | 6052 | 259/29 | 259/37 | L | |
| 31 | SPR3.1 | 6057 | 259/38 | 259/42 | L | |
| 32 | SPR4 | 6066 | 259/40 | 259/49 | L | |
| 33 | SPR5 | 6106 | 259/57 | 260/04 | L | |
| 34 | SPR6 | 6111 | 259/56 | 260/03 | | 260/07 L |
| 35 | SPR7 | 6116 | 259/52 | 260/10 | L | |
| 36 | TCA | 6121 | 155/52 | 257/45 | | 260/26 D |
| 37 | TCAA | 6270 | 261/37 | 261/46 | L | |
| 38 | TCAB | 6275 | 261/33 | 261/51 | L | |
| 39 | TCAC | 6302 | 261/25 | S | 261/35 | 261/56 L |
| 40 | TCAD | 6307 | 261/28 | S | 261/36 | 262/04 L |
| 41 | TCAX | 6120 | 260/26 | L | 260/30 | 261/43 |
| 42 | TCA0.1 | 6152 | 260/43 | 260/47 | L | |
| 43 | TCA1 | 6177 | 261/06 | L | | |
| 44 | TCA1.5 | 6223 | 261/17 | 261/21 | L | |
| 45 | TCA1.8 | 6226 | 261/19 | 261/22 | L | |
| 46 | TCA2 | 6266 | 261/40 | 261/43 | L | |
| 47 | .EJT | 6353 | 257/06 | 257/12 | | |
| 48 | .4 | 2753 | 262/57 | D | 263/05 | |

SYMBOL QUALIFIER = 3AG

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|------|------|----------|----------|----------|----------|----------|--|
| CFS | 2407 | 265/09 | 265/55 D | | | | |
| CFSX | 2406 | 265/55 L | 266/02 | 266/19 | 266/23 | | |
| CFS1 | 2440 | 265/52 | 266/18 L | | | | |
| CFS2 | 2443 | 266/11 | 266/13 | 266/15 | 266/17 | 266/20 L | |
| CFS3 | 2403 | 265/51 L | 266/08 | | | | |
| ODFL | 2451 | 264/54 S | 265/13 | 266/28 D | 266/29 | | |
| RJF | 2301 | 264/41 D | | | | | |
| RJFX | 2300 | 264/02 | 264/41 L | 265/28 | | | |
| RJF2 | 2321 | 264/55 L | 265/08 | 265/10 | 265/14 | 265/17 | |
| RJF3 | 2355 | 265/01 | 265/21 L | | | | |
| RJF4 | 2371 | 265/22 | 265/32 L | | | | |
| .1 | 1 | 266/03 D | | | | | |
| .2 | 0 | 265/03 D | 265/05 D | 265/05 | 266/04 D | | |

SYMBOL QUALIFIER = 3AH

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|------|------|----------|----------|----------|--------|--|--|
| CLBF | 5210 | 268/36 S | 268/42 | 269/17 D | 269/18 | | |
| PCL | 5040 | 267/33 D | | | | | |
| PCLX | 5037 | 267/02 | 267/33 L | 268/11 | 269/14 | | |
| PCL1 | 5100 | 267/57 | 268/04 L | | | | |
| PCL2 | 5107 | 268/11 L | 268/15 | | | | |
| PCL3 | 5111 | 268/10 | 268/13 L | | | | |
| PCL4 | 5133 | 268/29 | 268/31 L | | | | |

SYMBOL QUALIFIER = 3AI

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|---------|------|----------|----------|----------|----------|----------|--|
| CRA | 5374 | 276/07 | | | | | |
| FN | 32 | 271/05 D | | | | | |
| MSR | 5325 | 272/45 | 277/16 L | | | | |
| MSR1 | 5350 | 277/25 | 277/33 L | | | | |
| MSR1.1 | 5360 | 277/35 | 277/38 L | | | | |
| MSR2 | 5364 | 277/18 | 277/21 | 277/41 L | | | |
| RI | 63 | 271/04 D | 275/52 S | 276/04 S | | | |
| RNS | 5475 | 272/44 | | | | | |
| SAF | 5526 | 271/50 | 274/57 | | | | |
| SFB | 5603 | 272/01 | | | | | |
| SGD | 4551 | 271/42 D | | | | | |
| SGDA | 4622 | 272/04 S | 272/19 D | | | | |
| SGDB | 5313 | 271/47 | 276/47 L | | | | |
| SGDC | 5320 | 271/45 S | 271/53 | 276/16 S | 276/41 | 276/52 L | |
| SGDX | 4550 | 270/02 | 271/42 L | 273/01 | 274/27 | 276/44 | |
| SGD1 | 4602 | 272/04 L | 272/36 | | | | |
| SGD10 | 4741 | 273/19 | 273/22 | 273/25 | 273/30 L | | |
| SGD11 | 4746 | 273/29 | 273/38 L | | | | |
| SGD11.1 | 4773 | 273/51 L | 273/54 | | | | |
| SGD12 | 4775 | 273/50 | 273/53 L | | | | |
| SGD12.1 | 5010 | 274/01 | 274/05 L | | | | |
| SGD13 | 5024 | 273/56 | 274/17 L | | | | |
| SGD14 | 5033 | 274/15 | 274/22 L | | | | |

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|---------|------|----------|----------|----------|--------|
| SGD15 | 5047 | 274/18 | 274/31 L | 274/43 | 276/09 |
| SGD16 | 5053 | 274/03 | 274/34 L | 275/03 | 275/31 |
| SGD17 | 5055 | 273/51 | 274/38 L | | |
| SGD18 | 5111 | 275/01 | 275/05 L | | |
| SGD19 | 5150 | 275/18 | 275/25 L | | |
| SGD19.1 | 5163 | 275/26 | 275/29 | 275/33 L | |
| SGD2 | 4604 | 271/57 | 272/05 L | | |
| SGD20 | 5232 | 275/50 | 276/11 L | | |
| SGD21 | 5236 | 276/08 | 276/14 L | | |
| SGD3 | 4625 | 272/02 | 272/22 L | | |
| SGD4 | 4651 | 272/30 | 272/38 L | | |
| SGD5 | 4660 | 272/43 L | 273/14 | | |
| SGD6 | 4670 | 272/50 L | 273/15 | | |
| SGD7 | 4705 | 272/46 | 273/05 L | | |
| SGD8 | 4712 | 273/09 L | 273/34 | | |
| SGD9 | 4721 | 273/11 | 273/17 L | | |
| .IO | 0 | 272/38 D | 272/38 | | |
| .3 | 0 | 272/38 D | 272/38 | | |

SYMBOL QUALIFIER = 3AJ

| | | | | | | | | |
|-------|-------|----------|----------|----------|----------|----------|----------|---------------|
| ACCT | 4425 | 289/48 S | 289/57 | 290/09 | 290/51 S | 290/53 | 299/42 D | 299/43 |
| AUPB | 4413 | 298/32 S | 298/35 S | 298/38 S | 298/41 | 299/41 L | 299/42 | |
| CAC | 2325 | 281/17 | 282/11 D | | | | | |
| CACX | 2324 | 282/11 L | 282/31 | | | | | |
| CEP | 2353 | 281/14 | 282/48 D | | | | | |
| CEPA | 2372 | 282/57 | 283/04 L | 283/10 | | | | |
| CEPAL | 5 | 282/55 | 283/10 D | | | | | |
| CEPX | 2352 | 282/48 L | 282/54 | | | | | |
| CUF | 2400 | 283/27 D | 289/24 | | | | | |
| CUFA | 2415 | 283/32 S | 283/36 D | | | | | |
| CUFX | 2377 | 283/27 L | 283/29 | 283/38 | | | | |
| DAM | 2422 | 283/53 D | 291/21 | 291/25 | | | | |
| DAMA | 2426 | 283/54 S | 283/56 D | | | | | |
| DAMX | 2421 | 283/53 L | 284/11 | | | | | |
| DAM1 | 2425 | 283/55 L | 284/10 | | | | | |
| DAM2 | 2445 | 284/02 | 284/09 L | | | | | |
| DELY | 40000 | 280/23 D | | | | | | |
| FLF | 4500 | 301/09 | | | | | | |
| FN | 40 | 280/12 D | 294/32 S | 294/35 | 294/37 | 295/02 | 295/05 | 295/08 295/11 |
| IAA | 2451 | 284/30 D | 289/43 | | | | | |
| IAAA | 2513 | 284/53 S | 284/54 | 285/04 L | | | | |
| IAAX | 2450 | 284/30 L | 284/44 | 284/56 | | | | |
| ICS | 2530 | 283/01 | 285/26 D | 286/42 | | | | |
| ICSA | 2565 | 285/27 S | 285/49 D | | | | | |
| ICSX | 2527 | 285/26 L | 285/54 | | | | | |
| IJT | 2301 | 281/10 D | | | | | | |
| IJTX | 2300 | 279/02 | 281/10 L | 281/13 | 281/20 | 283/02 | | |
| IMES | 4 | 280/21 D | 298/53 | | | | | |
| ITS | 2577 | 281/19 | 286/19 D | | | | | |
| ITSA | 2622 | 286/35 D | 293/53 S | | | | | |
| ITSB | 2731 | 286/39 | 287/45 L | 288/08 | 288/24 | | | |
| ITSBL | 24 | 286/37 | 288/08 D | | | | | |

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|----|--------|------|----------|----------|----------|----------|----------|----------|--------|
| | ITSC | 2627 | 286/41 D | 286/57 S | | | | | |
| | ITSC L | 43 | 286/20 | 287/34 | 288/24 D | | | | |
| | ITSD | 2774 | 286/56 | 288/28 L | 289/01 | | | | |
| 1 | ITSDL | 36 | 286/54 | 289/01 D | | | | | |
| 2 | ITSE | 3032 | 286/28 | 289/03 L | 289/03 | | | | |
| 3 | ITSF | 3037 | 287/32 | 289/09 L | | | | | |
| 4 | ITSX | 2576 | 286/19 L | 286/36 | 286/43 | 287/40 | | | |
| 5 | ITS1 | 2614 | 286/25 | 286/30 L | | | | | |
| 6 | ITS10 | 2726 | 287/24 | 287/33 | 287/39 L | | | | |
| 7 | ITS2 | 2626 | 286/33 | 286/39 L | 287/01 | | | | |
| 8 | ITS3 | 2632 | 286/43 L | 286/53 | 287/10 | | | | |
| 9 | ITS4 | 2634 | 286/29 | 286/45 L | | | | | |
| 10 | ITS5 | 2637 | 286/50 L | 287/36 | 289/04 | | | | |
| 11 | ITS6 | 2654 | 287/05 L | 289/05 | 289/06 | | | | |
| 12 | ITS7 | 2664 | 287/10 L | 287/19 | | | | | |
| 13 | ITS8 | 2704 | 287/14 | 287/24 L | | | | | |
| 14 | ITS9 | 2724 | 287/23 | 287/38 L | | | | | |
| 15 | IUA | 3044 | 281/16 | 289/26 D | | | | | |
| 16 | IUAA | 3241 | 291/12 S | 291/19 D | | | | | |
| 17 | IUAB | 3256 | 283/30 | 290/15 | 291/09 | 291/24 | 291/40 L | 291/40 | |
| 18 | IUAC | 3267 | 291/16 | 291/54 L | | | | | |
| 19 | IUAD | 3275 | 291/02 | 291/20 | 291/56 L | 291/56 | | | |
| 20 | IUAE | 3300 | 290/27 S | 290/30 S | 290/32 | 290/41 S | 291/48 | 292/07 L | |
| 21 | IUAF | 3314 | 290/25 S | 290/33 | 290/42 S | 291/49 | 292/08 L | | |
| 22 | IUAG | 3330 | 290/23 S | 290/34 | 290/43 S | 291/50 | 292/09 L | | |
| 23 | IUAX | 3043 | 289/26 L | 289/32 | | | | | |
| 24 | IUA1 | 3067 | 289/42 | 289/44 L | | | | | |
| 25 | IUA2 | 3102 | 289/57 L | 290/03 | | | | | |
| 26 | IUA3 | 3111 | 289/54 | 290/01 | 290/08 L | | | | |
| 27 | IUA4 | 3242 | 291/14 | 291/20 L | | | | | |
| 28 | IUA5 | 3041 | 289/24 L | 290/04 | 291/26 | | | | |
| 29 | MSR | 3345 | 287/38 | 292/28 D | 293/29 | 299/19 | | | |
| 30 | MSRX | 3344 | 292/28 L | 292/30 | | | | | |
| 31 | MTRY | 62 | 280/22 D | 298/51 | 298/53 | | | | |
| 32 | NL | 37 | 280/11 D | 281/12 | 294/29 | 301/04 S | | | |
| 33 | OVL | 4430 | 295/27 S | 298/40 S | 298/43 | 298/46 | 299/09 | 299/43 D | 299/45 |
| 34 | | | 295/28 | 298/42 S | 298/45 S | 299/08 S | 299/11 | 299/44 | |
| 35 | PFUF | 2323 | 281/23 L | 283/28 | 299/22 S | | | | |
| 36 | PTR | 4414 | 281/11 | 300/12 D | | | | | |
| 37 | PTRX | 4413 | 300/12 L | 301/10 | | | | | |
| 38 | PTR1 | 4475 | 301/05 | 301/10 L | | | | | |
| 39 | RC | 66 | 280/13 D | 298/29 S | 298/50 S | | | | |
| 40 | RLF | 3454 | 281/15 | 294/17 D | | | | | |
| 41 | RLFA | 3604 | 294/53 | 295/41 L | 295/45 | | | | |
| 42 | RLFAL | 4 | 294/53 | 294/55 | 295/45 D | | | | |
| 43 | RLFB | 3373 | 293/32 D | 293/45 | 300/49 S | | | | |
| 44 | RLFC | 3364 | 293/25 D | 295/31 S | | | | | |
| 45 | RLFX | 3453 | 294/17 L | | | | | | |
| 46 | RLF1 | 3462 | 294/27 L | 294/36 | 294/42 | | | | |
| 47 | RLF2 | 3504 | 294/41 L | 295/14 | | | | | |
| 48 | RLF2.1 | 3505 | 294/42 L | 295/16 | | | | | |
| 49 | RLF3 | 3506 | 294/40 | 294/44 L | | | | | |
| 50 | RLF4 | 3520 | 294/55 L | 295/03 | 295/06 | 295/09 | 295/13 | | |
| 51 | RLF4.1 | 3543 | 295/14 L | 295/23 | | | | | |
| 52 | RLF4.2 | 3544 | 295/16 L | 295/37 | | | | | |
| 53 | RLF5 | 3545 | 294/49 | 295/18 L | | | | | |
| 54 | RLF5.0 | 3554 | 295/01 | 295/20 | 295/24 L | | | | |

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|--------|------|--------|--------|--------|---|--------|---|--------|---|
| RLF5.1 | 3574 | 295/29 | 295/32 | L | | | | | |
| RLF7 | 3363 | 293/24 | L | 294/30 | | | | | |
| RLF7.1 | 3372 | 293/26 | | 293/31 | L | | | | |
| RLF8 | 3420 | 293/40 | | 293/49 | L | | | | |
| RLF9 | 3446 | 293/54 | | 293/57 | | 294/12 | L | | |
| RSS | 4163 | 287/22 | | | | | | | |
| SCM | 3632 | 290/16 | | 291/03 | | 296/18 | D | | |
| SCMA | 3636 | 296/19 | S | 296/21 | D | | | | |
| SCMB | 3645 | 296/23 | S | 296/27 | D | | | | |
| SCMX | 3631 | 296/18 | L | 296/30 | | | | | |
| SCM1 | 3635 | 296/20 | L | 296/29 | | | | | |
| SUV | 3652 | 281/18 | | 296/43 | D | | | | |
| SUVX | 3651 | 296/43 | L | 297/13 | | | | | |
| TLD | 3710 | 297/28 | D | 300/16 | | | | | |
| TLDA | 3755 | 297/41 | S | 297/45 | S | 297/53 | | 298/03 | L |
| TLDX | 3707 | 297/28 | L | 297/43 | | 297/47 | | 297/55 | |
| UPF | 3770 | 289/33 | | 298/27 | D | | | | |
| UPFA | 4126 | 298/57 | | 299/26 | L | | | | |
| UPFB | 4143 | 299/14 | | 299/27 | L | | | | |
| UPFX | 3767 | 298/27 | L | 298/49 | | 299/23 | | | |
| UPF1 | 3773 | 298/30 | L | 299/06 | | | | | |
| UPF2 | 4054 | 298/54 | | 299/01 | L | | | | |
| UPF3 | 4073 | 298/52 | | 299/08 | L | | | | |
| UPF5 | 4116 | 298/47 | | 299/10 | | 299/18 | L | | |
| UPF6 | 4121 | 299/05 | | 299/13 | | 299/16 | | 299/21 | L |
| .IO | 0 | 287/20 | D | 287/20 | | | | | |
| .4 | 6705 | 301/19 | D | 301/24 | | | | | |

SYMBOL QUALIFIER = 3AK

| | | | | | | | | | |
|-------|------|--------|--------|--------|---|--------|---|--------|-----------------------------|
| AST | 4265 | 321/21 | 321/27 | 321/30 | | | | | |
| AST\$ | 1 | 321/39 | D | | | | | | |
| CEAF | 5 | 321/25 | | | | | | | |
| CJT | 2301 | 304/16 | D | | | | | | |
| CJTA | 2353 | 304/29 | | 304/41 | L | 320/24 | S | 321/13 | 321/17 321/20 321/26 321/29 |
| CJTB | 2354 | 304/36 | | 304/45 | L | | | | |
| CJTX | 2300 | 302/02 | | 304/16 | L | 304/31 | | 304/38 | |
| CSCF | 2 | 321/28 | | | | | | | |
| CTE | 3512 | 316/42 | | | | | | | |
| DAC | 2361 | 304/25 | | 306/11 | D | | | | |
| DACX | 2360 | 306/11 | L | 306/39 | | 306/55 | | | |
| DAC1 | 2410 | 306/21 | | 306/24 | | 306/26 | | 306/38 | L |
| DRF | 2437 | 307/15 | D | 313/17 | | | | | |
| DRFX | 2436 | 307/15 | L | 307/21 | | | | | |
| FEAF | 4 | 321/19 | | | | | | | |
| FN | 40 | 303/05 | D | 306/20 | | 306/34 | | 313/11 | 320/22 S |
| | | 306/19 | S | 306/31 | S | 313/10 | S | 313/13 | 320/23 |
| IFFN | 2357 | 305/04 | L | 312/01 | | 313/32 | S | 316/06 | 316/08 316/26 316/30 S |
| IORC | 10 | 303/14 | D | 316/34 | | | | | |
| ISE | 2456 | 304/28 | | 307/35 | D | | | | |
| ISEA | 2457 | 307/36 | L | 320/43 | S | | | | |
| ISEX | 2455 | 307/35 | L | 307/38 | | 307/44 | | | |
| MSR | 2472 | 308/17 | D | 312/55 | | 315/30 | | 317/35 | 318/29 |

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| MSRX | 2471 | 308/17 | L | 308/19 | | | | | |
| NFL | 3545 | 313/47 | | | | | | | |
| NL | 37 | 303/04 | D | 311/49 | 313/07 | 315/55 | 320/27 | S | |
| | | 309/30 | | 313/01 | 313/44 | 318/43 | | | |
| OVL | 4101 | 307/19 | S | 312/08 | S | 318/26 | 319/04 | 319/06 | |
| | | 307/20 | | 312/16 | 319/03 | D | 319/05 | | |
| PQF | 3575 | 315/14 | | 318/43 | D | | | | |
| PQFX | 3574 | 318/43 | L | 318/43 | | | | | |
| PQF1 | 3604 | 318/43 | | 318/43 | L | | | | |
| PQF2 | 3570 | 318/43 | L | 318/43 | | | | | |
| PQF3 | 3571 | 318/43 | L | 318/43 | | 318/43 | | | |
| PRS | 4154 | 304/17 | | 320/14 | D | | | | |
| PRSX | 4153 | 320/14 | L | 320/45 | | | | | |
| PRS1 | 4220 | 320/42 | | 320/45 | L | | | | |
| RC | 66 | 303/06 | D | 316/35 | S | 316/46 | S | | |
| RCS | 2511 | 304/24 | | 308/37 | D | | | | |
| RCSX | 2510 | 308/37 | L | 309/01 | | 309/03 | 309/15 | | |
| RDF | 2557 | 304/20 | | 309/29 | D | | | | |
| RDFX | 2556 | 309/29 | L | 309/31 | | 309/42 | 309/52 | | |
| REQ | 2606 | 304/21 | | 310/11 | D | | | | |
| REQX | 2605 | 310/11 | L | 310/16 | | 311/28 | | | |
| REQ1 | 2621 | 310/25 | L | 310/35 | | 310/38 | | | |
| REQ2 | 2645 | 310/28 | | 310/43 | L | | | | |
| REQ3 | 2661 | 310/56 | L | 311/16 | | | | | |
| REQ4 | 2703 | 311/01 | | 311/14 | L | | | | |
| REQ5 | 2706 | 310/39 | | 311/13 | | 311/20 | L | | |
| RFI | 3644 | 317/05 | | | | | | | |
| RIF | 2721 | 304/19 | | 311/48 | D | 316/56 | | | |
| RIFX | 2720 | 311/48 | L | 311/50 | | 311/53 | 311/55 | 311/57 | 312/02 |
| RLF | 3012 | 304/18 | | 312/57 | D | | | | |
| RLFA | 3003 | 312/51 | D | 313/20 | S | | | | |
| RLFX | 3011 | 312/52 | | 312/57 | L | 313/02 | | | |
| RLF1 | 3020 | 313/05 | L | 313/12 | | 313/26 | 313/33 | | |
| RLF1.1 | 3044 | 313/18 | | 313/21 | L | | | | |
| RLF2 | 3052 | 312/48 | | 313/27 | L | | | | |
| RLF3 | 3054 | 313/16 | | 313/31 | L | | | | |
| RLF4 | 2772 | 312/43 | L | 313/08 | | | | | |
| RLN | 3061 | 304/27 | | 313/43 | D | | | | |
| RLNX | 3060 | 313/43 | L | 313/45 | | 313/48 | | | |
| RQF | 3167 | 304/26 | | 315/13 | D | | | | |
| RQFA | 3222 | 315/23 | | 315/34 | L | | | | |
| RQFX | 3166 | 315/13 | L | 315/16 | | 315/19 | 315/31 | | |
| RQI | 3071 | 314/18 | D | 317/22 | | | | | |
| RQIX | 3070 | 314/18 | L | 314/57 | | | | | |
| RQI1 | 3127 | 314/32 | | 314/36 | | 314/40 | L | | |
| RQI2 | 3164 | 314/52 | | 314/57 | L | | | | |
| RRJ | 3230 | 304/23 | | 315/54 | D | | | | |
| RRJA | 3405 | 317/10 | S | 317/27 | D | | | | |
| RRJB | 3426 | 317/24 | | 317/38 | L | | | | |
| RRJC | 3432 | 317/14 | | 317/43 | L | | | | |
| RRJX | 3227 | 315/54 | L | 315/56 | | 316/02 | 316/07 | 317/29 | |
| RRJ1 | 3266 | 316/15 | | 316/21 | L | | | | |
| RRJ2 | 3270 | 316/19 | | 316/23 | L | | | | |
| RRJ3 | 3315 | 316/41 | L | 316/52 | | | | | |
| RRJ4 | 3343 | 316/21 | | 316/47 | | 316/51 | 316/54 | L | 317/36 |
| RRJ5 | 3353 | 316/45 | | 317/04 | L | | | | |
| RRJ6 | 3400 | 317/08 | | 317/15 | | 317/22 | L | | |

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|------|------|--------|----------|---|--------|----------|--------|
| RRJ7 | 3403 | 317/02 | 317/24 | L | | | |
| RRJ8 | 3413 | 317/23 | 317/31 | L | | | |
| RRJ9 | 3420 | 316/20 | 317/34 | L | | | |
| RSS | 3712 | 316/18 | | | | | |
| TREQ | 4076 | 310/52 | S 310/56 | | 319/02 | L 319/03 | |
| TSS | 4223 | 320/44 | 321/12 | D | | | |
| TSSX | 4222 | 321/12 | L 321/15 | | 321/23 | | 321/31 |
| TSS1 | 4246 | 321/18 | 321/25 | L | | | |
| URF | 3435 | 304/22 | 318/12 | D | | | |
| URFX | 3434 | 318/12 | L 318/19 | | 318/33 | | |
| URF1 | 3466 | 318/27 | 318/30 | L | | | |
| WSS | 3767 | 314/51 | | | | | |
| .IO | 0 | 314/50 | D 314/50 | | 316/16 | D 316/16 | |
| .4 | 6705 | 321/48 | D 321/53 | | | | |

SYMBOL QUALIFIER = ERR

| | | | | | | | |
|--------|------|--------|----------|----------|--------|---|-----------------|
| EM01 | 1501 | 152/35 | 324/33 | L | | | |
| EM02 | 1512 | 154/30 | 222/49 | | 247/18 | | 324/34 L |
| EM03 | 1530 | 164/57 | 324/35 | L | | | |
| EM04 | 1546 | 164/29 | 324/36 | L | | | |
| EM05 | 1572 | 145/43 | 274/02 | | 275/30 | | 324/37 L |
| EM06 | 1605 | 150/37 | 181/11 | | 322/43 | | 324/38 L |
| EM07 | 1623 | 324/39 | L | | | | |
| EM08 | 1631 | 324/40 | L | | | | |
| EM09 | 1637 | 164/35 | 324/41 | L | | | |
| EM10 | 1657 | 324/42 | L | | | | |
| EM11 | 1674 | 159/16 | 324/43 | L | | | |
| EM12 | 1707 | 229/04 | 324/44 | L | | | |
| EM13 | 1727 | 268/01 | 324/45 | L | | | |
| EM14 | 1742 | 272/16 | 324/46 | L | | | |
| EM15 | 1765 | 272/03 | 324/47 | L | | | |
| EM16 | 2000 | 272/35 | 324/48 | L | | | |
| EM17 | 2020 | 274/33 | 324/49 | L | | | |
| EM18 | 2043 | 276/11 | 324/50 | L | | | |
| EM19 | 2065 | 275/02 | 324/51 | L | | | |
| EM20 | 2102 | 222/44 | 246/25 | | 324/52 | L | |
| EM21 | 2117 | 233/08 | 324/53 | L | | | |
| EM22 | 2134 | 174/16 | 233/36 | | 235/57 | | 239/36 324/54 L |
| EM23 | 2154 | 235/01 | 324/55 | L | | | |
| EM24 | 2175 | 235/10 | 324/56 | L | | | |
| EM25 | 2205 | 181/49 | 324/57 | L | | | |
| EM26 | 2224 | 174/37 | 323/02 | S 325/01 | L | | |
| EM27 | 2247 | 149/16 | 325/02 | L | | | |
| ERR | 1274 | 322/36 | D | | | | |
| ERRA | 1464 | 322/42 | S 324/16 | D | | | |
| ERRX | 1273 | 322/02 | 322/36 | L | | | |
| ERR1 | 1301 | 322/38 | 322/41 | L | | | |
| ERR2 | 1317 | 322/44 | 322/52 | L | | | |
| ERR2.1 | 1345 | 323/08 | 323/11 | L | | | |
| ERR3 | 1353 | 323/12 | 323/17 | L | | | |
| ERR3.1 | 1372 | 323/24 | 323/28 | L | | | |
| ERR4 | 1415 | 323/21 | 323/40 | L | | | |

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|------|------|--------|----------|---|--------|--------|--------|--|
| ERR5 | 1437 | 323/42 | 323/53 | L | | | | |
| ERR6 | 1451 | 323/57 | 324/02 | | 324/06 | L | | |
| ERR7 | 1453 | 323/55 | 324/08 | L | | | | |
| ERR8 | 1455 | 324/05 | 324/10 | L | | | | |
| ERR9 | 1467 | 322/39 | 324/21 | L | | | | |
| .1 | 1273 | 325/05 | D 325/05 | | 325/08 | 325/09 | 325/10 | |
| .3 | 1473 | 325/05 | D 325/08 | | 325/09 | 325/11 | | |
| .4 | 1264 | 325/05 | D 325/10 | | | | | |

SYMBOL QUALIFIER = PFM

| | | | | | | | | |
|------|--------|--------|--|--|--|--|--|--|
| SYUI | 377777 | 261/51 | | | | | | |
|------|--------|--------|--|--|--|--|--|--|

SYMBOL QUALIFIER = REM

| | | | | | | | | |
|--------|------|--------|--------|-------|-------|--------|--------|--|
| SETLOC | 46 | 9/57 | | | | | | |
| UTIS | 10 | 51/34 | 51/36 | 51/39 | | | | |
| VCDT | 2004 | 168/18 | | | | | | |
| VCPT | 1 | 38/40 | 41/24 | 73/54 | 73/54 | 186/34 | 186/34 | |
| VROT | 3 | 47/47 | 47/54 | | | | | |
| VSTT | 7 | 167/05 | 168/19 | | | | | |
| VTLF | 2011 | 110/05 | | | | | | |
| VUIT | 0 | 58/18 | 58/25 | | | | | |

SYMBOL QUALIFIER = MACRO\$

| | | | | | | | | | |
|---------|------|--------|----------|----------|----------|----------|----------|----------|----------|
| DELAY | 3326 | 25/24 | D 127/26 | D 167/36 | D 254/27 | D 299/01 | D 316/48 | D | |
| ENDMS | 3761 | 42/26 | D 213/42 | D 222/10 | D 234/29 | D 247/17 | D 287/25 | D | |
| | | 61/55 | D 214/03 | D 224/18 | D 245/55 | D 272/50 | D 314/53 | D | |
| | | 169/31 | D 215/15 | D 232/27 | D 246/51 | D 273/38 | D 316/23 | D | |
| EXECUTE | 1407 | 16/24 | D 24/49 | D 79/41 | D 149/56 | D 165/04 | D 210/06 | D 277/38 | D 312/16 |
| | | 18/38 | D 25/40 | D 87/14 | D 150/47 | D 169/45 | D 234/53 | D 292/36 | D 318/26 |
| | | 20/36 | D 26/07 | D 88/52 | D 155/51 | D 170/20 | D 251/33 | D 295/28 | D 323/37 |
| | | 20/49 | D 26/49 | D 92/42 | D 156/16 | D 178/50 | D 255/28 | D 298/46 | D |
| | | 21/16 | D 28/03 | D 115/11 | D 156/46 | D 179/12 | D 257/25 | D 299/09 | D |
| | | 22/03 | D 28/09 | D 145/36 | D 157/32 | D 205/15 | D 265/13 | D 307/20 | D |
| | | 22/46 | D 28/47 | D 148/24 | D 161/12 | D 207/50 | D 265/36 | D 308/25 | D |
| ISTORE | 7202 | 73/54 | D 73/54 | D 180/55 | D 181/18 | D 186/34 | D 186/34 | D 197/47 | D 197/48 |

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|----------|------|----------|----------|----------|----------|----------|----------|----------|----------|
| MONITOR | 1474 | 22/30 D | 43/44 D | 95/54 D | 129/42 D | 173/37 D | 224/44 D | 277/37 D | 309/08 D |
| | | 23/27 D | 47/26 D | 102/33 D | 131/48 D | 173/46 D | 233/03 D | 277/43 D | 309/45 D |
| | | 25/16 D | 52/17 D | 106/03 D | 133/32 D | 174/36 D | 234/52 D | 284/51 D | 310/36 D |
| | | 25/21 D | 56/18 D | 106/13 D | 139/33 D | 178/26 D | 254/28 D | 290/12 D | 311/11 D |
| | | 26/46 D | 59/47 D | 106/16 D | 146/34 D | 187/44 D | 254/37 D | 290/39 D | 312/15 D |
| | | 28/12 D | 63/42 D | 110/50 D | 146/42 D | 187/50 D | 255/14 D | 290/56 D | 315/28 D |
| | | 28/21 D | 65/39 D | 111/21 D | 146/53 D | 191/06 D | 255/27 D | 292/35 D | 316/49 D |
| | | 32/33 D | 66/41 D | 111/22 D | 147/19 D | 191/53 D | 258/55 D | 297/54 D | 317/33 D |
| | | 32/34 D | 68/10 D | 112/24 D | 161/35 D | 193/48 D | 259/33 D | 299/02 D | 323/35 D |
| | | 33/38 D | 69/11 D | 118/47 D | 161/49 D | 196/52 D | 259/45 D | 304/37 D | 324/24 D |
| | | 34/48 D | 70/17 D | 118/56 D | 167/26 D | 199/05 D | 260/09 D | 306/29 D | |
| | | 35/39 D | 71/31 D | 119/14 D | 167/33 D | 200/46 D | 265/27 D | 306/49 D | |
| | | 35/46 D | 72/26 D | 127/21 D | 169/44 D | 209/11 D | 265/35 D | 307/43 D | |
| | | 37/38 D | 91/21 D | 127/40 D | 173/31 D | 210/03 D | 267/55 D | 308/24 D | |
| NFA | 1341 | 19/09 D | 73/17 D | 149/22 D | 195/21 D | 252/26 D | 272/32 D | 290/20 D | 318/43 D |
| | | 39/05 D | 92/38 D | 167/45 D | 195/32 D | 252/29 D | 272/55 D | 294/31 D | 323/09 D |
| | | 39/05 D | 110/03 D | 167/50 D | 207/09 D | 256/30 D | 273/40 D | 309/34 D | |
| | | 42/49 D | 114/29 D | 180/20 D | 209/50 D | 257/18 D | 275/38 D | 312/04 D | |
| | | 51/06 D | 115/04 D | 180/33 D | 224/33 D | 257/56 D | 277/30 D | 313/09 D | |
| | | 52/38 D | 120/50 D | 181/16 D | 234/44 D | 261/18 D | 285/47 D | 316/08 D | |
| | | 61/38 D | 121/02 D | 181/23 D | 243/23 D | 261/21 D | 285/52 D | 316/26 D | |
| | | 71/42 D | 145/40 D | 188/38 D | 251/17 D | 265/02 D | 287/05 D | 318/43 D | |
| OVERFLOW | 2262 | 74/15 D | 135/31 D | 199/16 D | 262/57 D | 321/48 D | | | |
| | | 123/23 D | 140/55 D | 249/11 D | 301/19 D | 325/05 D | | | |
| PAUSE | 3332 | 25/21 D | 69/11 D | 118/47 D | 167/33 D | 254/28 D | 299/02 D | 316/49 D | |
| SETMS | 3255 | 73/39 D | 216/52 D | 222/06 D | 239/44 D | 245/27 D | 272/38 D | 314/50 D | |
| | | 213/15 D | 217/17 D | 239/39 D | 243/33 D | 245/45 D | 287/20 D | 316/16 D | |
| SFA | 4203 | 33/03 D | 72/18 D | 180/03 D | 238/16 D | 272/25 D | 297/29 D | 314/54 D | |
| | | 35/05 D | 73/22 D | 180/09 D | 248/24 D | 275/45 D | 298/30 D | 315/24 D | |
| | | 37/28 D | 92/21 D | 185/51 D | 257/06 D | 293/33 D | 306/40 D | 320/36 D | |
| | | 57/38 D | 133/26 D | 197/54 D | 257/12 D | 293/46 D | 310/29 D | | |
| | | 65/30 D | 149/27 D | 212/29 D | 266/03 D | 294/44 D | 314/40 D | | |
| SYSCOM | 0 | 9/29 D | | | | | | | |

SYMBOL QUALIFIER = COMSRPV

| | | | | | |
|------|-----|--------|--------|--------|-------|
| CKLW | 1 | 94/52 | 94/54 | | |
| CKSM | 2 | 94/54 | 94/56 | | |
| CPCL | 40 | 103/09 | | | |
| CPEC | 4 | 104/09 | | | |
| ECCL | 20 | 103/10 | 103/15 | | |
| ECEC | 12 | 104/10 | | | |
| EECL | 1 | 103/08 | 103/20 | 103/22 | |
| EEEC | 2 | 104/08 | 104/20 | 104/22 | |
| ERCD | 3 | 94/56 | 95/01 | 99/32 | 99/34 |
| EXPL | 20 | 98/23 | | | |
| FLCL | 4 | 103/11 | 103/31 | | |
| ITIO | 6 | 99/36 | 99/38 | | |
| LNTH | 0 | 94/50 | | | |
| MLEC | 17 | 104/11 | 104/31 | | |
| NTCL | 100 | 103/07 | | | |
| NTEC | 0 | 104/07 | | | |
| ODCL | 10 | 103/13 | 103/16 | 103/27 | |

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|------|-----|--------|--------|--------|--------|--------|
| ODEC | 6 | 104/13 | 104/16 | 104/27 | | |
| OKCL | 10 | 103/12 | 103/17 | 103/18 | 103/26 | 103/28 |
| OKEC | 7 | 104/12 | 104/17 | 104/18 | 104/26 | 104/28 |
| OSEF | 7 | 95/01 | 95/03 | 99/38 | 99/40 | |
| PCCL | 2 | 103/19 | 103/23 | | | |
| PCEC | 5 | 104/19 | | | | |
| PINT | 4 | 100/18 | 100/45 | | | |
| PPCL | 20 | 103/14 | 103/21 | | | |
| PPEC | 3 | 104/14 | 104/15 | 104/21 | | |
| PRAR | 5 | 99/34 | 99/36 | | | |
| RCEC | 16 | 104/23 | | | | |
| REPL | 31 | 95/11 | | | | |
| RPPL | 11 | 99/40 | | | | |
| RRCL | 10 | 103/24 | | | | |
| RREC | 10 | 104/24 | | | | |
| SRCL | 4 | 103/25 | | | | |
| SREC | 21 | 104/25 | | | | |
| TICL | 200 | 103/29 | 103/30 | 120/11 | | |
| TIEC | 40 | 104/29 | 104/30 | | | |
| TLCL | 4 | 103/32 | | | | |
| TLEC | 1 | 104/32 | | | | |

SYMBOL QUALIFIER = SCR

| | | | | | | |
|------|------|-------|--|--|--|--|
| FCRD | 0 | 83/57 | | | | |
| FCTB | 1000 | 84/07 | | | | |
| SDSC | 267 | 84/07 | | | | |

SYMBOL QUALIFIER = CER

| | | | | | | |
|--------|------|--------|----------|----------|--------|----------|
| CER | 6101 | 79/45 | 136/46 | D | | |
| CERX | 6100 | 136/46 | L 137/13 | 137/15 | | |
| CER1 | 6142 | 137/10 | 137/19 | L | | |
| CER2 | 6147 | 137/17 | 137/20 | 137/23 | L | |
| CER3 | 6063 | 136/34 | L 137/03 | 137/08 | | |
| CER4 | 6067 | 136/36 | L 136/51 | 136/55 | 137/21 | |
| ENT | 6061 | 136/15 | D | | | |
| ENTX | 6060 | 136/02 | 136/15 | L 136/16 | 140/55 | |
| EXPA | 6734 | 139/56 | S 140/03 | S 140/14 | 140/51 | L 140/52 |
| EXPL | 7054 | 140/52 | D | | | |
| PEX | 6170 | 137/16 | 137/53 | D | | |
| PEXX | 6167 | 137/53 | L 138/26 | | | |
| PEX1 | 6223 | 138/13 | 138/23 | L | | |
| PRP | 6231 | 137/19 | 138/47 | D | | |
| PRPA | 6240 | 138/49 | S 138/52 | D | | |
| PRPB | 6405 | 140/16 | 140/27 | L 140/27 | | |
| PRPX | 6230 | 138/47 | L 138/53 | 139/39 | 140/22 | |
| PRP0 | 6320 | 139/37 | L 139/42 | | | |
| PRP0.1 | 6325 | 139/20 | 139/25 | 139/30 | 139/41 | L |

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|------|------|--------|----------|----------|
| PRP1 | 6330 | 139/17 | 139/35 | 139/44 L |
| PRP2 | 6353 | 140/01 | 140/03 L | |
| PRP3 | 6377 | 140/17 | 140/19 L | |

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|---|----|------|----------|--------|--------|--------|--------|
| 1 | .1 | 6060 | 140/55 D | 140/55 | 141/01 | 141/02 | 141/03 |
| 2 | .3 | 1360 | 140/55 D | 141/01 | 141/02 | 141/04 | |
| 3 | .4 | 1725 | 140/55 D | 141/03 | | | |

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