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COPYRT MODIFIERS.

NS2796

4 ACTIVE LINE(S). 1 INACTIVE LINE(S). 1 INSERTED LINE(S).

FDL MODIFIERS.

FDL1	NS21000	NS22000	NS2241	NS2278	FDL2	242L642	FDL3	251L664	FDL4	FDL5	281L803
*CALL	COMPMAC						FDL	153			
*CALL	COMSCPS						FDL	154			
*CALL	COMSMSP						FDL	155			
*CALL	COMSPIM						FDL	156			
*CALL	COMSSRU						FDL	157			
*CALL	COMPCTI						242L642	66	185		
*CALL	COMPRNS						242L642	67	185		
*CALL	COMPCLD						FDL	1379			
*CALL	COMPORA						FDL	1380			
*CALL	COMPSTI						FDL	1383			
*CALL	COMPSTI						FDL	1384			
*CALL	COMPSTI						FDL	1385			
*CALL	COMPSTI						FDL	1387			
*CALL	COMPSTI						FDL	1576			
*CALL	COMPDDT						242L642	104	1918		
*CALL	COMPDDT						FDL	2141			
*CALL	COMPSTI						FDL	2142			
*CALL	COMPSTI						FDL	2143			
*CALL	COMPSTI						FDL	2144			
*CALL	COMPSTI						FDL	2146			
*CALL	COMPSTI						FDL	2271			
*CALL	COMPSTI						FDL	2272			

2308 ACTIVE LINE(S). 201 INACTIVE LINE(S). 231 INSERTED LINE(S).

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## 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	ZTDV PDT	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

	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
1	COMCPFP	COMP CIB	COMPSRR	COMSSCP	SLL	CVLCP	SETCORE	EOR5	COMBUDT	EORSS12	BEGIN	1DA
2	COMCPFS	COMPCLC	COMPSRU	COMSSCR	STL	DAYFILE	SFORM	EOR6	COMXACM	SSUSE	BLDABH	0CT
3	COMCPFU	COMPCKP	COMPSSE	COMSSF	TLX	DFTERM	SFS	EOR7	COMXBST	EORSS13	CALLRTN	COMCKD
4	COMCPOP	COMPCLD	COMPSSF	COMSSFS	VEJ	DOCUMENT	SHOW	EOR8	COMXCCB	SSVAL	CALLTRN	COMCMBS
5	COMCQFM	COMPCLX	COMPSTA	COMSSRT	VER	DSDI	SHOWEX	EOR9	COMXCTF	EORSS14	CALLTSK	COMPTFM
6	COMCQFP	COMP CMA	COMPSTI	COMSSRU	XHC	EDIT	SMFSUBS	EOR10	COMXEMC	EXDRVR	CEASE	COMSTFU
7	COMCRDA	COMP CMX	COMPSUD	COMSSSD	0AU	ENQUIRE	SORT	COMFDS1	COMXEXP	SXDEST	CHKON	TFM
8	COMCRDC	COMP COB	COMPSUT	COMSSSE	0AV	FCOPY	STAGE	COMFDS2	COMXFCQ	SXHLR	CMDUMP	TFU
9	COMCRDH	COMP CPE	COMPTGB	COMSSSJ	0BF	FILES	SUBMIT	COMFFSE	COMXHLR	SXINIT	DSDUMP	TFILES
10	COMCRDO	COMP CRA	COMPTLB	COMSTCM	0DF	FOTD	SUBSYST	COMFMLT	COMXINT	SXKD	EXTRACT	TFSP
11	COMCRDS	COMP CRS	COMPTMA	COMSTDR	0DQ	GENPFD	SYMPCOD	COMFONL	COMXIPR	SXLLR	INTOT	LDISTAP
12	COMCRDW	COMP CSC	COMPUFT	COMSTFM	0FA	GTR	SYSEDIT	COMFSGL	COMXJCA	SXMAIN	JOURNAL	GETTASV
13	COMCRSB	COMP CTE	COMPUPP	COMSTIO	0PT	HELPLIB	TCOMND	COMFSMF	COMXLTC	SXSERV	LIMITS	SETTASV
14	COMCRSP	COMP CTI	COMPUPS	COMSTIR	0QM	HOSTCPY	TDU	COMFTAB	COMXMGD	SXSTGE	LOGIN	TMSPROC
15	COMCRTN	COMP CUA	COMPVEI	COMSTRX	0RF	HSTCOPY	TDUEX	COMFXCM	COMXMMF	SXSLV	MULTCB	TMSPROG
16	COMCSCB	COMP CUT	COMPVFC	COMSVED	0RP	IAFEX	TDUFILE	COMFXED	COMXMSC	SXUCP	SEND	
17	COMCSFM	COMP CVI	COMPVFN	COMSVER	0RT	IEDIT	TDUIN	COMFXFL	COMXOVL	SX3UCP	SETCHT	

## COMMON DECKS ON PROGRAM LIBRARY.

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

COMCEDT	COMCSRI	COMFVD1	COMPFLF	COMPSES	COMSATF	COMSPRD	COMTVDT	COMFONL	COMXCCB	COMTVLV
COMCFCE	COMCSRT	COMPMAC	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.

FDL

102600B STORAGE USED.

8087 LINES WRITTEN ON COMPILE FILE.

1412THE



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ADDRESS LENGTH BINARY CONTROL CARDS.

1100 2556 IDENT LDD,/LDD/LDD  
3656 (427)

BLOCKS	TYPE	ADDRESS	LENGTH
PROGRAM*	ABSOLUTE	0	3372
//	ABSOLUTE	3372	264

ADDRESS LENGTH BINARY CONTROL CARDS.

1100 1463 IDENT LDQ,/LDQ/LDQ  
2563 (245)

ADDRESS LENGTH BINARY CONTROL CARDS.

1100 353 IDENT 2LD,PPFW  
1453 (60)  
END

BLOCKS	TYPE	ADDRESS	LENGTH
PROGRAM*	ABSOLUTE	0	1410
LITERALS*	ABSOLUTE	1410	43
BUFFERS	ABSOLUTE	1453	0

IDENT LDD,/LDD/LDD

FDL 1

PERIPH

FDL 2

D\_M BASE MIXED

FDL 3

SST

FDL 4

1 IRA\$ EQU 1 SET USER RANDOM ADDRESS INITIALIZATION

FDL 5

1 MSR\$ EQU 1 SET USER MASS STORAGE ERROR PROCESSING

FDL 6

1 QUAL\$ EQU 1 SET UNQUALIFIED COMMON DECKS

FDL 7

COMMENT 82/02/26. 92/09/17. FDL - LOAD FAST DYNAMIC LOAD DIRECTORIES.

FDL 8

COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.

281L803 1

1412THE



***	LDD - LOAD FAST DYNAMIC LOAD DIRECTORIES.	FDL	12
*	S. L. KSANDER. 76/04/01.	FDL	13
***	LDD PROCESSES THE PHYSICAL LOADING OF FAST DYNAMIC	FDL	15
*	LOAD CAPSULE DIRECTORY INFORMATION INTO THE USER SPECIFIED	FDL	16
*	AREA. IF A FUNCTION CODE OF 404 IS PRESENT THEN	FDL	17
*	CCL PROCEDURE RECORDS ARE LOCATED RATHER THAN CAPSULES.	FDL	18
***	CALL FORMAT.	FDL	20
*		FDL	21
*		FDL	22
*T	18/ *LDD* ,1/,1/A,4/,12/ DI,6/ RSTAT,1/B,17/ FET	FDL	23
*		FDL	24
*	A AUTO RECALL.	FDL	25
*	DI DIRECTORY INDEX. (*LDD* RECALL ONLY)	FDL	26
*	RSTAT RECALL STATUS BITS. (*LDD* RECALL ONLY)	FDL	27
*	2/LOCAL USER LIBRARY OFFSET.	FDL	28
*	4/GLOBAL LIBRARY SET INDEX.	FDL	29
*	B *LDD* RECALL STATUS.	FDL	30
*		FDL	31
*		FDL	32
*	FET.	FDL	33
*		FDL	34
*T FET	42/ *GROUP*,9/ STATUS,9/ CODE	FDL	35
*T,	12/,18/ LIST,12/ DIRL,18/ DIRA	FDL	36
*		FDL	37
*	INITIAL CALL.	FDL	38
*		FDL	39
*	GROUP NAME OF GROUP FOR WHICH DIRECTORY INFORMATION IS	FDL	40
*	REQUESTED	FDL	41
*	STATUS IGNORED	FDL	42
*	CODE FUNCTION CODE.	FDL	43
*	0 = LOCATE CAPSULES.	FDL	44
*	402 = LOCATE TEXT RECORD IN *CLD*.	NS2278	1
*	404 = LOCATE TEXT RECORDS.	FDL	45
*	LIST ADDRESS OF LIBRARY NAME LIST THAT IS TO BE SEARCHED	FDL	46
*	AFTER THE GLOBAL LIBRARY SET, TERMINATED BY ZERO WORD	FDL	47
*	DIRL LENGTH OF DIRECTORY STORAGE AREA	FDL	48
*	DIRA BASE ADDRESS OF DIRECTORY AREA	FDL	49
*		FDL	50
*		FDL	51
*	CALL COMPLETION.	FDL	52
*		FDL	53
*	GROUP NOT CHANGED	FDL	54
*	STATUS 000 = NO ERRORS	FDL	55
*	001 = ILLEGAL FUNCTION CODE	FDL	56
*	002 = BAD DIRECTORY ADDRESS AND/OR LENGTH (OUTSIDE OF	FDL	57
*	JOB FL)	FDL	58
*	003 = BAD LIBLIST ADDRESS AND/OR LENGTH (OUTSIDE OF	FDL	59
*	JOB FL)	FDL	60
*	010 = LIBRARY NOT FOUND OR LIBRARY NOT MASS STORAGE	FDL	61

*	RESIDENT	FDL	62
*	020 = INSUFFICIENT DIRECTORY SPACE GIVEN	FDL	63
*	CODE SET TO 001	FDL	64
*	LIST NOT CHANGED	FDL	65
*	DIRL SET TO ACTUAL LENGTH REQUIRED	FDL	66
*	DIRA NOT CHANGED	FDL	67
*		FDL	68
*	*LDD* RECALL.	FDL	69
*		FDL	70
*	AFTER EACH LIBRARY HAS BEEN PROCESSED, *LDD* WILL CHECK	FDL	71
*	THE TOTAL NUMBER OF SECTORS READ AGAINST THE ASSEMBLY	FDL	72
*	CONSTANT *RSLM*. IF THIS LIMIT IS EXCEEDED, *LDD* WILL	FDL	73
*	PLACE ITSELF IN RECALL AND RESTART AGAIN WHEN IT IS	FDL	74
*	RECALLED.	FDL	75
*		FDL	76
*		FDL	77
*	DIRECTORY ENTRY FORMAT.	FDL	78
*		FDL	79
*		FDL	80
*	SYSTEM FILE DIRECTORY ENTRY.	FDL	81
*		FDL	82
*	*T DIRA 12/7777,12/ 0,12/ FNT,6/ ORD,18/ 0	FDL	83
*	*T,DIRA+1 42/ NAME, 18/ INDEX	FDL	84
*	*T,DIRA+2 1/1,23/ 0,18/ PRU,18/ LENGTH	FDL	85
*		FDL	86
*		FDL	87
*	LOCAL FILE DIRECTORY ENTRY.	FDL	88
*		FDL	89
*	*T DIRA 1/1,41/ *LFN*,18/ 0	FDL	90
*	*T,DIRA+1 42/ NAME, 18/ INDEX	FDL	91
*	*T,DIRA+2 1/1,23/ 0,18/ PRU,18/ LENGTH	FDL	92
*		FDL	93
*		FDL	94
*	FNT ADDRESS OF SYSTEM FILE FNT ENTRY	FDL	95
*	ORD ORDINAL OF SYSTEM LIBRARY IN LIBRARY NAME TABLE	FDL	96
*	LFN LOCAL FILE NAME	FDL	97
*	NAME NAME OF CAPSULE OR TEXT RECORD.	FDL	98
*	INDEX INDEX RELATIVE TO START OF DIRECTORY OF THE FILE	FDL	99
*	ENTRY ASSOCIATED WITH THIS NAME.	FDL	100
*	PRU DISK ADDRESS OF FIRST SECTOR OF CAPSULE OR TEXT	FDL	101
*	RECORD.	FDL	102
*	LENGTH LENGTH OF CAPSULE OR TEXT RECORD.	FDL	103

```

***      DAYFILE MESSAGES.                                FDL      105
*                                               FDL      106
*      * LDD - ARGUMENT ERROR - XXXXXX.* = FET ADDRESS .LT. 2 OR FDL      107
*      .GT. FL-2.                                         FDL      108
*                                               FDL      109
*      * LDD - I/O SEQUENCE ERROR - FILENAM AT XXXXXX.* = MULTIPLE FDL      110
*      CONCURRENT FUNCTIONS WERE ATTEMPTED ON FILE *FILENAM*. FDL      111
*                                               FDL      112
*      * LDD - DEVICE ERROR - FILENAM AT XXXXXX.* = AN UNRECOVERED FDL      113
*      DEVICE ERROR WAS ENCOUNTERED ON FILE *FILENAM*.    FDL      114
*                                               FDL      115
*      FOR ALL MESSAGES, XXXXXX IS THE ADDRESS OF THE *LDD*  FDL      116
*      PARAMETER BLOCK.                                   FDL      117

```

```

***      OPERATOR MESSAGES.                                FDL      119
*                                               FDL      120
*                                               FDL      121
*      NONE.                                             FDL      122

```

```

****      ASSEMBLY CONSTANTS.                                FDL      124
*                                               FDL      125
*                                               FDL      126
*                                               FDL      127
*      QUAL  ERR  ERROR CODES.                            FDL      128
*      1    ILF  EQU  1  ILLEGAL FUNCTION                  FDL      129
*      2    IAD  EQU  2  ILLEGAL ADDRESS                   FDL      130
*      3    FNF  EQU  3  FILE NOT FOUND (LDQ)              FDL      131
*      3    ILA  EQU  3  ILLEGAL LIBLIST ADDRESS (LDD)     FDL      132
*      4    IRA  EQU  4  ILLEGAL RANDOM ADDRESS            FDL      133
*      5    WPR  EQU  5  WRONG PROGRAM                     FDL      134
*      6    IBF  EQU  6  INSUFFICIENT BUFFER               FDL      135
*      10   ILE  EQU  10 ILLEGAL LIBRARY ENTRY            FDL      136
*      20   IDS  EQU  20 INSUFFICIENT DIRECTORY SPACE      FDL      137
*      40   FERT EQU  40 FATAL ERROR TYPES.                FDL      138
*      40   ARG  EQU  40 ARGUMENT ERROR (MUST ALWAYS BE FATAL) FDL      139
*      41   IOS  EQU  41 I/O SEQUENCE ERROR (MUST ALWAYS BE FATAL) FDL      140
*      42   MSR  EQU  42 MASS STORAGE ERROR (MUST ALWAYS BE FATAL) FDL      141
*      QUAL  *   FDL      142
*      FDL      143
*      1    MEPO EQU  1  MASS STORAGE ERROR PROCESSING OPTION FDL      144
*      1000 RSLM EQU  1000 RECALL SECTOR LIMIT            FDL      145
*      FDL      146
*      FDL      147
****      FDL      148

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****

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## \*\*\* COMMON DECKS.

FDL 150

FDL 151

FDL 152

1	0	CTEXT	COMPMAC	- PP SYSTEM MACROS.	COMPMAC	1
2	0	CTEXT	COMSCPS	- CPUMTR SUBFUNCTION CODES.	COMSCPS	1
3	0	CTEXT	COMSMSP	- MASS STORAGE PROCESSING EQUIVALENCES.	COMSMSP	1
4	0	CTEXT	COMSPIM	- PP INSTRUCTION MNEMONICS.	COMSPIM	1
5	0	CTEXT	COMSSRU	- DEFINE SRU PARAMETERS.	COMSSRU	1

## \*\*\*\* DIRECT LOCATION ASSIGNMENTS.

FDL 159

FDL 160

FDL 161

13	17	ER	EQU	17	EOR FLAG	FDL5	1
14	20	FS	EQU	20 - 24	FST ENTRY	FDL	162
15	25	CC	EQU	25	CAPSULE COUNT	FDL	163
16	26	GO	EQU	26	GROUP ORDINAL	FDL	164
17	27	CL	EQU	27	LENGTH OF CENTRAL MEMORY DIRECTORY	FDL	165
18	30	GN	EQU	30 - 34	GROUP NAME	FDL	166
19	30	AB	EQU	30 - 34	NAME TO SEARCH FOR IN *CLD*	FDL	167
20	35	UL	EQU	35 - 36	USER SPECIFIED FILE LIST ADDRESS	FDL	168
21	37	DI	EQU	37	ACTUAL DIRECTORY LENGTH	FDL	169
22	40	FN	EQU	40 - 44	FNT ENTRY	FDL	170
23	45	FW	EQU	45 - 46	FWA OF CM BUFFER	FDL	171
24	45	TI	EQU	45 - 46	LIBRARY BASE RANDOM INDEX	FDL	172
25	47	EC	EQU	47	ERROR CODE	FDL5	2
26	57	FA	EQU	57	RELATIVE FNT ADDRESS IN NFL	FDL	174
27	60	BL	EQU	60	BUFFER LIMIT ADDRESS	FDL	175
28	61	SI	EQU	61 - 62	SRU INCREMENT TO ERROR PROCESSOR	FDL	176
29	63	RI	EQU	63 - 64	RANDOM INDEX	FDL	177
30	65	BS	EQU	65 - 66	BUFFER SIZE (CM BUFFER)	FDL	178
31	65	DA	EQU	65 - 66	DIRECTORY BASE ADDRESS	FDL	179
32	67	DL	EQU	67	USER SPECIFIED DIRECTORY LENGTH	FDL	180

FDL 181

\*\*\*\*

FDL 182

## \*\* MACRO DEFINITIONS.

FDL

185

1										1
2										2
3	**	COMMON	-	COMMON CODE FOR *LDD* AND *LDQ*.		242L642		2		3
4	*					242L642		3		4
5	*			THIS MACRO PROVIDES IDENTICAL CODE FOR *LDD* AND *LDQ*.		242L642		4		5
6						242L642		5		6
7						242L642		6		7
8		COMMON	MACRO			242L642		7		8
9		CIS	SPACE	4,10		242L642		8		9
10	**		CIS	- CLEAR INTERLOCKS.		242L642		9		10
11	*					242L642		10		11
12	*		ENTRY	(CISA) = TRACK NUMBER IF INTERLOCK SET.		242L642		11		12
13	*					242L642		12		13
14	*		EXIT	(CISA) = 0.		242L642		13		14
15	*					242L642		14		15
16	*		CALLS	CTI.		242L642		15		16
17						242L642		16		17
18						242L642		17		18
19		CIS	SUBR	ENTRY/EXIT		242L642		18		19
20			LDC	0		242L642		19		20
21		CISA	EQU	*-1		242L642		20		21
22			ZJN	CISX	IF NO INTERLOCK SET	242L642		21		22
23			RJM	CTI		242L642		22		23
24	*		LDN	0	CLEAR INTERLOCK SET STATUS	242L642		23		24
25			STM	CISA		242L642		24		25
26			UJN	CISX	RETURN	242L642		25		26
27		MSR	SPACE	4,15		242L642		26		27
28	**		MSR	- MASS STORAGE ERROR PROCESSING.		242L642		27		28
29	*					242L642		28		29
30	*		ENTRY	(A) = STATUS RETURNED FROM AN I/O ERROR.		242L642		29		30
31	*			(T5) = EST ORDINAL.		242L642		30		31
32	*			(FA) = FNT ADDRESS IF LOCAL FILE PRESENT.		242L642		31		32
33	*			= 0, OTHERWISE.		242L642		32		33
34	*					242L642		33		34
35	*		USES	FS+4, IR+4.		242L642		34		35
36	*					242L642		35		36
37	*		CALLS	CIS.		242L642		36		37
38	*					242L642		37		38
39	*		MACROS	ERROR, EXECUTE.		242L642		38		39
40						242L642		39		40
41						242L642		40		41
42		MSR	CON	0	ENTRY	242L642		41		42
43			SHN	21-12		242L642		42		43
44			MJN	MSR2	IF UNRECOVERABLE ERROR	242L642		43		44
45			LDM	MSD		242L642		44		45
46			SHN	21-13		242L642		45		46
47			MJN	MSR3	IF NOT SUBSYSTEM	242L642		46		47
48		MSR2	RJM	CIS		242L642		47		48
49			ERROR	MSR	* DEVICE ERROR.*	242L642		48		49
50						242L642		49		50
51	*		CALL	*1RJ* TO RECALL THE PP AND ROLL THE JOB.		242L642		50		51
52						242L642		51		52
53		MSR3	LDD	T5	EST ORDINAL	242L642		52		53
54			STD	IR+4		242L642		53		54
55										55
56										56
57										57
58										58
59										59
60										60

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		RJM	CIS	CLEAR INTERLOCKS	242L642	54
		AOD	FS+4	SET FET NOT BUSY	242L642	55
		LDD	FA		242L642	56
1		ZJN	MSR4	IF NO LOCAL FNT	242L642	57
2		NFA	FA,R		242L642	58
3		ADN	FSTL		242L642	59
4		CWD	FS		242L642	60
5	MSR4	EXECUTE	1RJ		242L642	61
6		SPACE	4,10		242L642	62
7	**	COMMON	DECKS.		242L642	63
8					242L642	64
9					242L642	65
10		CTEXT	COMPCTI - CLEAR TRACK INTERLOCK.		COMPCTI	1
11	CTI	SPACE	4,10		242L642	1
12		IF	-DEF,QUAL\$,1		COMPCTI	3
13		QUAL	COMPCTI		COMPCTI	4
14	*	COMMENT	COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.		281L803	1
15	CTI	SPACE	4,10		242L642	2
16	***	CTI - CLEAR TRACK INTERLOCK.			COMPCTI	7
17	*	J. L. WARDELL	72/05/24.		COMPCTI	8
18	CTI	SPACE	4,15		242L642	3
19	***	CTI	CLEARs WRITE INTERLOCK FOR TRACK SPECIFIED.		COMPCTI	10
20	*				COMPCTI	11
21	*	ENTRY	(A) = TRACK NUMBER.		242L642	4
22	*		(T5) = EST ORDINAL.		242L642	5
23	*				242L642	6
24	*	EXIT	(A) = 0.		242L642	7
25	*				COMPCTI	15
26	*	USES	CM - CM+4.		COMPCTI	16
27	*				COMPCTI	17
28	*	MACROS	MONITOR.		242L642	8
29	*				242L642	9
30	*	XREF	COMSCPS.		242L642	10
31					COMPCTI	19
32					COMPCTI	20
33	CTI	SUBR	ENTRY/EXIT		COMPCTI	21
34		STD	CM+2	SET TRACK	COMPCTI	22
35		LDD	T5	SET EST ORDINAL	NS22000	2
36		STD	CM+1		COMPCTI	24
37		LDN	CTIS	CLEAR TRACK INTERLOCK	COMPCTI	25
38		STD	CM+3		COMPCTI	26
39		MONITOR	STBM		COMPCTI	27
40	*	LDN	0		242L642	11
41		UJN	CTIX	RETURN	242L642	12
42		SPACE	4,10		242L642	13
43	QUAL\$	IF	-DEF,QUAL\$		COMPCTI	30
44		QUAL	*		COMPCTI	31
45	CTI	EQU	/COMPCTI/CTI		COMPCTI	32
46	QUAL\$	ENDIF			COMPCTI	33
47		ENDX			COMPCTI	34
48		CTEXT	COMPRNS - READ NEXT SECTOR.		COMPRNS	1
49	RNS	SPACE	4,10		242L642	1
50		IF	-DEF,QUAL\$,1		COMPRNS	3
51		QUAL	COMPRNS		COMPRNS	4
52	*	COMMENT	COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.		281L803	1
53	RNS	SPACE	4,10		242L642	2
54	***	RNS	READ NEXT SECTOR.		COMPRNS	7

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*      G. R. MANSFIELD. 70/08/30.      COMPRNS      8
RNS    SPACE 4,25                        242L642      3
***    RNS READS THE NEXT SECTOR OF A FILE TO A PP BUFFER.  COMPRNS      10
*      *                                COMPRNS      11
*      IF *MSR$* IS DEFINED A CALL WILL BE MADE TO *MSR* ON A  COMPRNS      12
*      MASS STORAGE ERROR. IF IT IS POSSIBLE FOR *MSR* TO CORRECT 242L642      4
*      THE ERROR, IT CAN RETURN TO *RNS* WHICH WILL UPDATE T1, T6, 242L642      5
*      AND T7 AND RETURN TO ITS CALLER. IF *MSR$* IS NOT DEFINED, 242L642      6
*      (A) IS NEGATIVE ON EXIT AND T1, T6, AND T7 ARE NOT UPDATED. 242L642      7
*      *                                COMPRNS      15
*      ENTRY (A) = 6/ FLAGS FOR DRIVER, 12/ PP BUFFER ADDRESS.  COMPRNS      16
*      (T5) = EST ORDINAL.                NS22000      1
*      (T6) = TRACK.                      COMPRNS      18
*      (T7) = SECTOR.                    COMPRNS      19
*      *                                COMPRNS      20
*      EXIT (A) = (T1) = WORD COUNT OF SECTOR.  COMPRNS      21
*      (T3) = ADDRESS OF PP BUFFER.        COMPRNS      22
*      (T6 - T7) ADVANCED IF NO EOI.       COMPRNS      23
*      (A) .LT. 0 IF MASS STORAGE ERROR AND *MSR$* NOT 242L642      8
*      DEFINED. (A) = RESPONSE FROM DRIVER. 242L642      9
*      *                                COMPRNS      24
*      *                                COMPRNS      25
*      USES T3.                            COMPRNS      26
*      *                                COMPRNS      27
*      CALLS RDS.                          COMPRNS      28
*      *                                COMPRNS      29
*      *                                COMPRNS      30
RNS2   LDD T1 RETURN WITH (A) = WORD COUNT  COMPRNS      31
*      *                                COMPRNS      32
RNS    SUBR ENTRY/EXIT                      COMPRNS      33
STD    T3 SET BUFFER ADDRESS              COMPRNS      34
RJM    RDS READ SECTOR                   COMPRNS      35
MSR$   IF DEF,MSR$                         COMPRNS      36
PJN    RNS0 IF NO ERROR                   COMPRNS      37
RJM    MSR PROCESS MASS STORAGE READ ERROR  COMPRNS      38
RNS0   BSS 0                               COMPRNS      39
MSR$   ELSE                                242L642     10
*      *                                242L642     11
MSR$   MJN RNSX IF ERROR                  COMPRNS      39
*      *                                COMPRNS      40
*      *                                COMPRNS      41
*      *                                COMPRNS      42
*      *                                COMPRNS      43
*      *                                COMPRNS      44
*      *                                COMPRNS      45
*      *                                COMPRNS      46
*      *                                COMPRNS      47
*      *                                COMPRNS      48
*      *                                COMPRNS      49
*      *                                COMPRNS      50
*      *                                COMPRNS      51
*      *                                COMPRNS      52
*      *                                COMPRNS      53
*      *                                COMPRNS      54
*      *                                COMPRNS      55
*      *                                COMPRNS      56
*      *                                COMPRNS      57
*      *                                COMPRNS      58
*      *                                242L642     12
*      *                                242L642     12
QUAL$  IF -DEF,QUAL$                      COMPRNS      56
RNS    QUAL *                             COMPRNS      57
RNS    EQU /COMPRNS/RNS                   COMPRNS      58

```

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Line	Code	Text	FDL	Address
1				
2				
3				
4				
5	**	ERROR - SET ERROR STATUS.	FDL	187
6	*		FDL	188
7	*		FDL	189
8	*NAME	ERROR CODE	FDL	190
9	*		FDL	191
10	*	ENTRY *NAME* = OPTIONAL LOCATION TAG.	FDL	192
11	*	*CODE* = ERROR CODE.	FDL	193
12			FDL	194
13		PURGMAC ERROR	FDL	195
14			FDL	196
15	ERROR	MACRO A	FDL	197
16		MACREF ERROR	FDL	198
17		LDN /ERR/A	FDL	199
18		RJM ERR	FDL	200
19		ENDM	FDL	201
20				
21				
22				
23				
24	**	LDCA - LOAD ABSOLUTE CM ADDRESS.	FDL	203
25	*		FDL	204
26	*		FDL	205
27	*NAME	LDCA DC	FDL	206
28	*		FDL	207
29	*	ENTRY *NAME* = OPTIONAL LOCATION TAG.	FDL	208
30	*	*DC* = FIRST OF TWO DIRECT LOCATIONS TO BE USED.	FDL	209
31			FDL	210
32		PURGMAC LDCA	FDL	211
33			FDL	212
34	LDCA	MACRO X	FDL	213
35		MACREF LDCA	FDL	214
36		LDD X	FDL	215
37		LPN 37	FDL	216
38		SHN 6	FDL	217
39		ADD RA	FDL	218
40		SHN 6	FDL	219
41		ADD X+1	FDL	220
42		ENDM	FDL	221
43				
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```
**      MSG - DEFINE MESSAGE.  
*  
*ERR   MSG   (TEXT)  
*  
*      ENTRY *ERR* = ERROR CODE.  
*              *TEXT* = ERROR MESSAGE.
```

```
FDL      223  
FDL      224  
FDL      225  
FDL      226  
FDL      227  
FDL      228  
FDL      229  
FDL      230  
FDL      231  
FDL      232  
FDL      233  
FDL      234  
FDL      235  
FDL      236  
FDL      237  
FDL      238  
FDL      239
```

```
PURGMAC MSG
```

```
MACRO  MSG,ERR,TEXT  
LOCAL  A  
MACREF MSG
```

```
      A  MICRO 1,, $TEXT$  
      A  MICCNT A  
      ERRNG 20D-A      MESSAGE TOO LONG  
      ERR   CON   =Z$TEXT$  
      ENDM
```

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Line	Code	Address	Qualifier	Library	Function	Description	Page
1			***			LDD - MAIN PROGRAM.	241
2							242
3	1100		ORG	PPFW			243
4							244
5	1100	0200 3373	LDD	RJM	PRS	PRESET	245
6	1102	1400	LDDB	LDN	0		246
7			*	LDN	1	(FUNCTION CODE 402)	247
8	1103	0535		NJN	LDD3.4	IF FUNCTION CODE IS 402	248
9	1104	3074		LDD	CP	READ GLOBAL LIBRARY SET	2
10	1105	2100 0112		ADC	LB1W		3
11	1107	6173 3372		CRM	TLBD,TR		4
12	1111	1400	LDD1	LDN	0	CLEAR FNT ADDRESS	249
13	1112	3457		STD	FA		250
14	1113	3440		STD	FN	CLEAR FILE NAME	251
15	1114	5400 3010		STM	SISA		252
16	1116	1400			PAUSE		253
17	1124	3011		LDD	CM+1	CHECK ERROR FLAGS	254
18	1125	0403		ZJN	LDD3	IF NO ERROR FLAGS	255
19	1126	0100 2655	LDD2	LJM	SCS	SET COMPLETE STATUS	256
20							257
21	1130	0200 2127	LDD3	RJM	CRP	CHECK RECALL PARAMETERS	258
22	1132	0200 1273		RJM	GNL	GET NEXT LIBRARY	259
23	1134	3040		LDD	FN	CHECK LIBRARY FOUND	260
24	1135	0515		NJN	LDD5	IF NOT END OF LIBRARIES	261
25	1136	1400	LDDA	LDN	0		262
26			*	LDN	1	(FUNCTION CODE 404)	263
27	1137	0466		ZJN	LDD2	IF NOT FUNCTION CODE 404	264
28	1140	0200 2576	LDD3.4	RJM	SCP	SEARCH *CLD* FOR PROCEDURE RECORD	265
29	1142	0505		NJN	LDD4	IF ENTRY FOUND	266
30	1143	1410		ERROR	ILE	ILLEGAL LIBRARY ENTRY	267
31	1146	0357		UJN	LDD2	EXIT	268
32							269
33	1147	0200 2434	LDD4	RJM	PDE	PROCESS DIRECTORY ENTRY	270
34	1151	0354		UJN	LDD2	SET COMPLETE STATUS	271
35							272
36	1152	0200 1364	LDD5	RJM	LNL	LOCATE NEXT LIBRARY	273
37	1154	3040		LDD	FN	CHECK LIBRARY FOUND	274
38	1155	0413		ZJN	LDD6	IF LIBRARY NOT FOUND	275
39							276
40			*			PROCESS *ULIB* RECORD.	277
41							278
42	1156	2000 3423		LDC	BUF	LOAD BUFFER MEMORY	279
43	1160	0200 2342		RJM	LBM		280
44	1162	2000 3423		LDC	BUF	RESET BUFFER ADDRESS	281
45	1164	3403		STD	T3		282
46	1165	0200 3053		RJM	VUT	VALIDATE *ULIB* TABLES	283
47	1167	0507		NJN	LDD7	IF NO ERROR IN *ULIB* TABLES	284
48							285
49	1170	1410	LDD6	ERROR	ILE	ILLEGAL LIBRARY ENTRY	286
50	1173	0200 2014		RJM	CIS	CLEAR INTERLOCK STATUS	287
51	1175	0332		UJN	LDD8		288
52							289
53	1176	0200 1714	LDD7	RJM	SFG	SEARCH FOR GROUP NAME	290
54	1200	0467		ZJN	LDD6	IF NO MATCH ON GROUP NAME	291
55							292
56							293
57							
58							
59							
60							

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\* PROCESS \*OPLD\* RECORD.

Line No.	Address	Code	Op	Op2	Op3	Description	File	Page	
1	1201	0200	3003	RJM	SIS	SET INTERLOCK STATUS	FDL	294	
2	1203	3021		LDD	FS+1	SET FIRST TRACK	FDL	295	
3	1204	3406		STD	T6		FDL	296	
4	1205	0200	3130	RJM	CRA	CONVERT RANDOM ADDRESS	FDL	300	
5	1207	0760		MJN	LDD6	IF RANDOM INDEX ERROR	FDL	301	
6	1210	2000	3423	LDC	BUF	LOAD BUFFER MEMORY	FDL	302	
7	1212	0200	2342	RJM	LBM		FDL	303	
8	1214	2000	3423	LDC	BUF	RESET BUFFER ADDRESS	FDL	304	
9	1216	3403		STD	T3		FDL	305	
10	1217	0200	3022	RJM	VOT	VALIDATE *OPLD* TABLE	FDL	306	
11	1221	0746		MJN	LDD6	IF ERROR IN *OPLD* TABLE	FDL	307	
12	1222	0200	1615	RJM	PGM	PROCESS GROUP MEMBERS	FDL	308	
13	1224	0403		ZJN	LDD8	IF NO FIND OR CAPSULE PROCESSING	FDL	309	
14	1225	0100	1126	LJM	LDD2	IF FIND ON FUNCTION CODE 404	FDL	310	
15							FDL	311	
16	1227	3624		LDD8	AOD	FS+4	SET FILE NOT BUSY	FDL	312
17	1230	3057		LDD	FA		FDL	313	
18	1231	0406		ZJN	LDD9	IF NOT LOCAL LIBRARY	FDL	314	
19	1232	3055		NFA	FA,R		FDL	315	
20	1235	1601		ADN	FSTL		FDL	316	
21	1236	6220		CWD	FS		FDL	317	
22	1237	0100	1111	LDD9	LJM	LDD1	LOOP	FDL	318

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				***	GNL - GET NEXT LIBRARY NAME.		FDL	322
				*			FDL	323
				*	ENTRY (UL - UL+1) = ADDRESS OF NEXT USER LIBLIST ENTRY.		FDL	324
				*	(TLBD) = GLOBAL LIBRARY SET.		FDL	325
				*	(FN) = 0.		FDL	326
				*			FDL	327
				*	EXIT (FN) = 0 IF NO LIBRARY FOUND.		FDL	328
				*	(FN - FN+4) = NAME OF NEXT USER LIBRARY.		FDL	329
				*	(UL - UL+1) = UPDATED TO NEXT USER LIBLIST ENTRY.		FDL	330
				*	TO *ERR* IF ILLEGAL LIBLIST ADDRESS.		FDL	331
				*			FDL	332
				*	USES T7, CM - CM+4, FN - FN+4, UL - UL+1.		FDL	333
							FDL	334
				*	PROCESS USER LIBLIST ENTRY.		FDL	335
							FDL	336
							FDL	337
1241	3035			GNL4	LDD UL	CHECK USER SPECIFIED LIBLIST	FDL	338
1242	1014				SHN 14		FDL	339
1243	3136				ADD UL+1		FDL	340
1244	0426				ZJN GNLX	IF NO USER SPECIFIED LIBLIST	FDL	341
1245	1071				SHN -6	CHECK USER LIBLIST ADDRESS	FDL	342
1246	3256				SBD FL		FDL	343
1247	0704				MJN GNL6	IF LIBLIST ADDRESS WITHIN FL	FDL	344
1250	1403			GNL5	ERROR ILA	ILLEGAL LIBLIST ADDRESS	FDL	345
							FDL	346
1253	3035			GNL6	LDCA UL	READ LIBRARY NAME	FDL	347
1261	6040				CRD FN		FDL	348
1262	3636				AOD UL+1	ADVANCE LIBLIST ADDRESS	FDL	349
1263	1063				SHN -14		FDL	350
1264	3535				RAD UL		FDL	351
1265	3043			GNL7	LDD FN+3	SET LIBRARY NAME	FDL	352
1266	1377				SCN 77		FDL	353
1267	3443				STD FN+3		FDL	354
1270	1400				LDN 0		FDL	355
1271	3444				STD FN+4		FDL	356
							FDL	357
1272	0100	1272		GNL	SUBR	ENTRY/EXIT	FDL	358
1274	2000	3375			LDC TLBD+3	CHECK END OF GLOBAL LIBRARY SET TABLE	FDL	359
			1275	GNLA	EQU *-1		FDL	360
1276	3407				STD T7		FDL	361
1277	2300	3411			LMC TLBDL		FDL	362
			1300	GNLB	EQU *-1		FDL	363
				*	LMC TLBDL-5	(ONE LOCAL USER LIBRARY)	FDL	364
				*	LMC TLBDL-12	(TWO LOCAL USER LIBRARIES)	FDL	365
1301	0405				ZJN GNL1	IF END OF GLOBAL LIBRARY SET	FDL	366
1302	4007				LDI T7	GET NEXT LIBRARY ORDINAL	FDL	367
1303	1071			GNLC	SHN -6	POSITION ORDINAL	FDL	368
				*	SHN 0	(LIBRARY ORDINAL IN LOWER SIX BITS)	FDL	369
1304	1277				LPN 77		FDL	370
1305	0503				NJN GNL2	IF NOT END OF GLOBAL LIBRARY SET	FDL	371
1306	0100	1241		GNL1	LJM GNL4		FDL	372
							FDL	373
1310	3407			GNL2	STD T7		FDL	374
1311	5600	1362			AOM GNLE	ADVANCE GLOBAL LIBRARY INDEX	FDL	375
1313	1076				SHN -1		FDL	376
1314	2100	3375			ADC TLBD+3		FDL	377
1316	5400	1275			STM GNLA		FDL	378

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1320	5000	1303	LDM	GNLC	ADVANCE SHIFT INSTRUCTION	FDL	379	
1322	1171		LMN	-6+77		FDL	380	
1323	5400	1303	STM	GNLC		FDL	381	
1325	3007		LDD	T7		FDL	382	
1326	1777		SBN	77		FDL	383	
1327	0416		ZJN	GNL3	IF LOCAL USER LIBRARY	FDL	384	
1330	1676		ADN	76	SET OFFSET = (ORDINAL-1) * 2	FDL	385	
1331	1001		SHN	1		FDL	386	
1332	3407		STD	T7		FDL	387	
1333	2000	0144	LDC	LBDP	READ LIBRARY DIRECTORY	FDL	388	
1335	6010		CRD	CM		FDL	389	
1336	3012		LDD	CM+2	FORM ADDRESS OF LIBRARY NAME	FDL	390	
1337	1014		SHN	14		FDL	391	
1340	3113		ADD	CM+3		FDL	392	
1341	3107		ADD	T7	ADD OFFSET	FDL	393	
1342	6040		CRD	FN	READ LIBRARY NAME	FDL	394	
1343	0100	1265	LJM	GNL7		FDL	395	
						FDL	396	
			*		READ LOCAL FILE LIBRARY NAME.	FDL	397	
						FDL	398	
1345	3074		GNL3	LDD	CP	READ LOCAL USER LIBRARY NAME	FDL	399
1346	2100	0114		ADC	LB3W		FDL	400
		1347	GNLD	EQU	*-1		FDL	401
			*	ADC	LB2W	(SECOND LOCAL USER LIBRARY)	FDL	402
1350	6040		CRD	FN	READ LIBRARY NAME	FDL	403	
1351	5700	1347	SOM	GNLD	ADVANCE LOCAL USER LIBRARY POINTER	FDL	404	
1353	1505		LCN	5	ADVANCE END OF GLOBAL LIBRARY SET TABLE	FDL	405	
1354	5500	1300	RAM	GNLB		FDL	406	
1356	5600	2141	AOM	CRPA	ADVANCE RECALL VALUE	FDL	407	
1360	0100	1265	LJM	GNL7		FDL	408	
						FDL	409	
1362	0000		GNLE	CON	0	GLOBAL LIBRARY SET BYTE INDEX	FDL	410

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	***			LNL - LOCATE NEXT LIBRARY.			FDL	412
	*						FDL	413
	*			ENTRY (FN - FN+3) = LIBRARY NAME.			FDL	414
1	*			(LNLA) = FNT ADDRESS SYSTEM FILE.			FDL	415
2	*						FDL	416
3	*			EXIT (FN) = 0 IF LIBRARY NOT FOUND.			FDL	417
4	*			(T5) = EQUIPMENT.			FDL	418
5	*			(T6) = FIRST TRACK OF LIBRARY FILE.			FDL	419
6	*			(FA) = FNT ADDRESS IF LOCAL FILE LIBRARY FOUND.			FDL	420
7	*			(PDEB) = INDEX OF LIBRARY FILE HEADER IN DIRECTORY.			FDL	421
8	*			(RI - RI+1) = RANDOM INDEX OF LIBRARY *ULIB* RECORD.			FDL	422
9	*			(FS - FS+4) = FST OF LOCAL FILE USER LIBRARY.			FDL	423
10	*			(DIRA - DIRA+4) = FIRST WORD OF DIRECTORY ENTRY FOR			FDL	424
11	*			LIBRARY.			FDL	425
12	*			(CISA) = SET TO INDICATE INTERLOCK CLEARED.			FDL	426
13	*			(SISA) = SET TO INDICATE IF INTERLOCK REQUIRED.			FDL	427
14	*			RANDOM ACCESS PROCESSORS PRESET.			FDL	428
15	*			DRIVER LOADED AND ERROR PROCESSING SET.			FDL	429
16	*						FDL	430
17	*			USES FA, CM - CM+4, FN - FN+4, FS - FS+4, RI - RI+4,			FDL	431
18	*			T1 - T7.			FDL	432
19	*						FDL	433
20	*			CALLS CRA, IRA, SAF, SFB, SIS.			FDL	434
21	*						FDL	435
22	*			MACROS ERROR, SETMS, SFA.			242L642	70
23							FDL	437
24							FDL	438
25		1363	0100 1363	LNL	SUBR	ENTRY/EXIT	FDL	439
26		1365	0200 3200		RJM	SAF	FDL	440
27		1367	0503		NJN	LNL1	FDL	441
28		1370	0100 1444		LJM	LNL5	FDL	442
29							FDL	443
30		1372	0200 3255	LNL1	RJM	SFB	FDL	444
31		1374	0404		ZJN	LNL2	FDL	445
32		1375	1441		ERROR	IOS	FDL	446
33							FDL	447
34		1400	3013	LNL2	LDD	CM+3	242L642	71
35		1401	1204		LPN	4	FDL	452
36		1402	0410		ZJN	LNL2.1	FDL	453
37		1403	3074		LDD	CP	FDL	454
38		1404	2100 0115		ADC	EOCW	FDL	455
39		1406	6001		CRD	T1	FDL	456
40		1407	3001		LDD	T1	FDL	457
41		1410	3357		LMD	FA	FDL	458
42		1411	0527		NJN	LNL4	FDL	459
43		1412	3014	LNL2.1	LDD	CM+4	FDL	460
44		1413	1071		SHN	-6	FDL	461
45		1414	1112		LMN	PMFT	FDL	462
46		1415	0507		NJN	LNL3	FDL	463
47		1416	3013		LDD	CM+3	FDL	464
48		1417	1220		LPN	20	NS2241	1
49		1420	0404		ZJN	LNL3	FDL	466
50		1421	3021		LDD	FS+1	242L642	72
51		1422	5400 3010		STM	SISA	242L642	73
52		1424	3020	LNL3	LDD	FS	242L642	74
53		1425	3405		STD	T5	FDL	472
54		1426	0200 0245		SFA	EST	NS22000	2



Address	Offset	Code	Label	Description	Operation	Count
1430	6010	ADK	EQDE		NS22000	3
1431	3010	CRD	CM		FDL	474
1432	1006	LDD	CM	CHECK EQUIPMENT TYPE	FDL	475
1433	0605	SHN	21-13		FDL	476
1434	3022	PJN	LNL4	IF NOT MASS STORAGE	FDL	477
1435	0403	LDD	FS+2	CHECK FOR TRACK	FDL	478
1436	0100 1552	ZJN	LNL4	IF FILE EMPTY	FDL	479
		LJM	LNL10	PROCESS LOCAL FILE	FDL	480
		*		SET ERROR STATUS.	FDL	481
1440	1400	LNL4	LDN 0	CLEAR FIRST BYTE OF LIBRARY NAME	242L642	75
1441	3440	STD	FN		FDL	486
1442	0100 1363	LJM	LNLX	RETURN	FDL	487
		*		SEARCH LIBRARY NAME TABLE FOR LIBRARY.	FDL	488
1444	3405	LNL5	STD T5	CLEAR LIBRARY ORDINAL	FDL	489
1445	2000 0144	LDC	LBDP	READ LIBRARY NAME TABLE FWA	FDL	490
1447	6007	CRD	CM-1		FDL	491
1450	3605	LNL6	AOD T5	ADVANCE ORDINAL	FDL	492
1451	3011	LDD	CM+1	READ LIBRARY NAME	FDL	493
1452	1014	SHN	14		FDL	494
1453	3112	ADD	CM+2		FDL	495
1454	6020	CRD	FS		FDL	496
1455	1601	ADN	1	READ RANDOM ADDRESS	FDL	497
1456	6060	CRD	RI-3		FDL	498
1457	3020	LDD	FS	COMPARE CHARACTERS 1 AND 2	FDL	499
1460	0457	ZJN	LNL4	IF END OF LIBRARY NAME TABLE	FDL	500
1461	3340	LMD	FN		FDL	501
1462	0406	ZJN	LNL8	IF CHARACTERS MATCH	FDL	502
1463	1402	LNL7	LDN 2	ADVANCE LIBRARY NAME TABLE ADDRESS	FDL	503
1464	3512	RAD	CM+2		FDL	504
1465	1063	SHN	-14		FDL	505
1466	3511	RAD	CM+1		FDL	506
1467	0360	UJN	LNL6	LOOP TO END OF LIBRARY NAME TABLE	FDL	507
1470	3041	LNL8	LDD FN+1	COMPARE CHARACTERS 3 AND 4	FDL	508
1471	3321	LMD	FS+1		FDL	509
1472	0570	NJN	LNL7	IF NO COMPARE	FDL	510
1473	3042	LDD	FN+2	COMPARE CHARACTERS 5 AND 6	FDL	511
1474	3322	LMD	FS+2		FDL	512
1475	0565	NJN	LNL7	IF NO COMPARE	FDL	513
1476	3043	LDD	FN+3	COMPARE CHARACTER 7	FDL	514
1477	3323	LMD	FS+3		FDL	515
1500	1377	SCN	77		FDL	516
1501	0561	NJN	LNL7	IF NO COMPARE	FDL	517
		*		FORM SYSTEM LIBRARY DIRECTORY HEADER.	FDL	518
1502	1466	LDN	ZERL	CLEAR DIRECTORY ENTRY	FDL	519
1503	6170 3411	CRM	DIRA,ON		FDL	520
1505	3037	LDD	DI	SET INDEX TO FILE ENTRY	FDL	521
1506	5400 2473	STM	PDEB		FDL	522
1510	3005	LDD	T5	ADD LIBRARY ORDINAL	FDL	523
1511	1006	SHN	6		FDL	524
1512	5400 3414	STM	DIRA+3		FDL	525

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1514	1500		LCN	0		FDL	531	
1515	5400	3411	STM	DIRA		FDL	532	
1517	1473		LDN	FNTF	READ SYSTEM FST ENTRY	FDL	533	
1520	6010		CRD	CM		FDL	534	
1521	3010		LDD	CM		FDL	535	
1522	1014		SHN	14		FDL	536	
1523	3311		LMD	CM+1		FDL	537	
		0	ERRNZ	SYFO	SYSTEM FILE ORDINAL .NE. 0	FDL	538	
1524	1601		ADN	FSTG		FDL	539	
1525	6020		CRD	FS		FDL	540	
1526	6005		CRD	T5		242L642	76	
1527	3063		LDD	RI	SET RANDOM ADDRESS BIAS	FDL	545	
1530	1014		SHN	14		FDL	546	
1531	3164		ADD	RI+1		FDL	547	
1532	1701		SBN	1		FDL	548	
1533	3446		STD	TI+1		FDL	549	
1534	1063		SHN	-14		FDL	550	
1535	3445		STD	TI		FDL	551	
1536	0200	3336	RJM	IRA	INITIALIZE RANDOM ACCESS PROCESSORS	FDL	552	
1540	0200	3130	RJM	CRA	CONVERT RANDOM ADDRESS	FDL	553	
1542	0603		PJN	LNL9	IF NO RANDOM INDEX ERROR	FDL	554	
1543	0100	1440	LJM	LNL4		FDL	555	
						FDL	556	
1545	1403		LNL9	SETMS	READSYS	SYSTEM SELECTION OF EQUIPMENT	FDL	557
1550	0100	1363	LJM	LNLX	RETURN	FDL	558	
						FDL	559	
			*		FORM LOCAL LIBRARY DIRECTORY HEADER.	FDL	560	
						FDL	561	
1552	3021		LNL10	LDD	FS+1	SET FIRST TRACK	FDL	562
1553	3406		STD	T6		FDL	563	
1554	1400		LDN	0	SET INITIAL RANDOM ADDRESS	FDL	564	
1555	3463		STD	RI		FDL	565	
1556	3445		STD	TI		FDL	566	
1557	1401		LDN	FSMS		FDL	567	
1560	3464		STD	RI+1		FDL	568	
1561	1701		SBN	1	SET RANDOM ADDRESS BIAS	FDL	569	
1562	3446		STD	TI+1		FDL	570	
1563	3077		LDD	MA	FORM FIRST WORD OF DIRECTORY	FDL	571	
1564	6240		CWD	FN		FDL	572	
1565	6170	3411	CRM	DIRA,ON		FDL	573	
1567	2000	4000	LDC	4000	FLAG FILE DIRECTORY ENTRY	FDL	574	
1571	5500	3411	RAM	DIRA		FDL	575	
1573	3037		LDD	DI	SET INDEX TO FILE ENTRY	FDL	576	
1574	5400	2473	STM	PDEB		FDL	577	
1576	0200	3336	RJM	IRA	INITIALIZE RANDOM ACCESS PROCESSORS	FDL	578	
1600	0200	3003	RJM	SIS	SET INTERLOCK STATUS	FDL	579	
1602	0200	3130	RJM	CRA		FDL	580	
1604	0603		PJN	LNL11	IF NO RANDOM INDEX ERROR	FDL	581	
1605	0100	1440	LJM	LNL4		FDL	582	
						FDL	583	
1607	1400		LNL11	SETMS	IO	242L642	77	
1612	0100	1363	LJM	LNLX	RETURN	FDL	585	

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\*\*\* PGM - PROCESS GROUP MEMBERS.

\*  
\* ENTRY (GO) = ORDINAL OF GROUP NAME WITHIN CURRENT LIBRARY.  
\* (T2) = \*OPLD\* TABLE BASE ADDRESS.  
\* (BL) = BUFFER LIMIT ADDRESS.  
\* (ER) = BUFFER EOR/EOF/EOI STATUS.  
\* (GN - GN+4) = NAME OF \*CCL\* PROCEDURE TO LOCATE  
\* IF FUNCTION CODE 404.  
\* EXIT ALL CAPSULES OR PROCEDURE RECORDS PROCESSED.  
\* (A) = 1 IF FIND ON FUNCTION CODE 404.  
\* (A) = 0 IF NO FIND ON FUNCTION CODE 404 OR \*EOR\*  
\* STATUS REACHED FOR PROCESSING OF CAPSULES.  
\* TO \*SCS\* IF ERROR FLAG SET.  
\* USES T1, T2, T3.  
\* CALLS LBM, PDE, SIS.

FDL 587  
FDL 588  
FDL 589  
FDL 590  
FDL 591  
FDL 592  
FDL 593  
FDL 594  
FDL 595  
FDL 596  
FDL 597  
FDL 598  
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FDL 633  
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FDL 639  
FDL 640  
FDL 641  
FDL 642  
FDL 643

PGM	SUBR	ENTRY/EXIT
1614	0100 1614	PGM SUBR ENTRY/EXIT
1616	3002	LDD T2 SKIP *OPLD* TABLE
1617	1605	ADN 1*5
1620	3403	PGM1 STD T3 SET BASE ADDRESS
1621	1400	PGM2 LDN 0
		* LDN 1 (FUNCTION CODE 404)
	1621	PGMA EQU *-1
1622	0433	ZJN PGM5 IF NOT FUNCTION CODE 404
1623	5003 0004	LDM 4,T3 CHECK FOR TYPE *PROC*
1625	1120	LMN 20
1626	0403	ZJN PGM3 IF TYPE *PROC*
1627	0100 1667	LJM PGM6 IF NOT TYPE *PROC*
1631	3003	PGM3 LDD T3
1632	3401	STD T1
1633	1430	LDN GN CHECK NAME FOR MATCH
1634	3402	STD T2
1635	4002	PGM4 LDI T2
1636	4301	LMI T1
1637	0530	NJN PGM6 IF NO MATCH
1640	3601	AOD T1
1641	3602	AOD T2
1642	1133	LMN GN+3
1643	0571	NJN PGM4 IF 3 BYTES NOT PROCESSED
1644	4002	LDI T2 CHECK FOURTH BYTE
1645	4301	LMI T1
1646	1377	SCN 77
1647	0520	NJN PGM6 IF NO MATCH
1650	0200 2434	RJM PDE PROCESS DIRECTORY ENTRY
1652	1401	LDN 1
1653	0100 1614	LJM PGMX RETURN
1655	5003 0004	PGM5 LDM 4,T3 CHECK FOR TYPE *CAP*
1657	1116	LMN 16
1660	0507	NJN PGM6 IF NOT TYPE *CAP*
1661	5003 0005	LDM 5,T3 CHECK GROUP ORDINAL
1663	3326	LMD GO

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1664	0503		NJN	PGM6	IF NOT CORRECT GROUP ORDINAL	FDL	644
1665	0200 2434		RJM	PDE	PROCESS DIRECTORY ENTRY	FDL	645
1667	1412	PGM6	LDN	2*5	INCREMENT BASE ADDRESS	FDL	646
1670	3503		RAD	T3		FDL	647
1671	3260		SBD	BL	CHECK BUFFER LIMIT	FDL	648
1672	0603		PJN	PGM7	IF BUFFER EXHAUSTED	FDL	649
1673	0100 1621		LJM	PGM2	LOOP	FDL	650
						FDL	651
1675	3017	PGM7	LDD	ER	CHECK EOR STATUS	FDL	652
1676	0503		NJN	PGM8	IF NOT *EOR* IN BUFFER	FDL	653
1677	0100 1614		LJM	PGMX	IF *EOR* IN BUFFER	FDL	654
						FDL	655
1701	0200 3003	PGM8	RJM	SIS	SET INTERLOCK STATUS	FDL	656
1703	2000 3423		LDC	BUF	RELOAD BUFFER	FDL	657
1705	0200 2342		RJM	LBM	LOAD BUFFER MEMORY	FDL	658
1707	2000 3425		LDC	BUF+2	RESET BASE ADDRESS	FDL	659
1711	0100 1620		LJM	PGM1	LOOP	FDL	660
		***		SFG - SEARCH FOR GROUP MEMBERS.		FDL	662
		*				FDL	663
		*	ENTRY	(A) = NUMBER OF GROUP NAMES IN *ULIB* RECORD.		FDL	664
		*		(T2) = *ULIB* TABLE BASE ADDRESS.		FDL	665
		*		(TI - TI+1) = BASE RANDOM ADDRESS OF LIBRARY.		FDL	666
		*		(GN - GN+4) = GROUP NAME.		FDL	667
		*		(BL) = BUFFER LIMIT ADDRESS.		FDL	668
		*		(ER) = BUFFER EOR/EOF/EOI STATUS.		FDL	669
		*				FDL	670
		*	EXIT	(A) = 0 IF NO GROUP NAMES FOUND.		FDL	671
		*		(A) .NE. 0 IF GROUP NAME FOUND WITHIN *ULIB* RECORD.		FDL	672
		*		(A) = 1 IF FUNCTION CODE 404.		FDL	673
		*		(CC) = NUMBER OF CAPSULES IN CURRENT GROUP.		FDL	674
		*		(GO) = ORDINAL OF GROUP WITHIN CURRENT LIBRARY.		FDL	675
		*		(RI - RI+1) = RANDOM INDEX OF LIBRARY *OPLD* RECORD.		FDL	676
		*		TO *SCS* IF ERROR FLAG SET.		FDL	677
		*				FDL	678
		*	USES	T3, CC, GO, RI - RI+1.		FDL	679
		*				FDL	680
		*	CALLS	LBM, SIS.		FDL	681
						FDL	682
						FDL	683
1713	0100 1713	SFG	SUBR		ENTRY/EXIT	FDL	684
1715	3425		STD	CC	SAVE GROUP COUNT	FDL	685
1716	5002 0003		LDM	3, T2	SET *OPLD* RANDOM ADDRESS	FDL	686
1720	3146		ADD	TI+1		FDL	687
1721	3464		STD	RI+1		FDL	688
1722	1063		SHN	-14		FDL	689
1723	5102 0002		ADM	2, T2		FDL	690
1725	3145		ADD	TI		FDL	691
1726	3463		STD	RI		FDL	692
1727	1400	SFGA	LDN	0		FDL	693
		*	LDN	1	(FUNCTION CODE 404)	FDL	694
1730	0562		NJN	SFGX	IF FUNCTION CODE 404	FDL	695
1731	1401		LDN	1	INITIALIZE GROUP NAME ORDINAL	FDL	696
1732	3426		STD	GO		FDL	697

1733	3002		LDD	T2	SKIP *ULIB* HEADER	FDL	698	
1734	1605		ADN	5		FDL	699	
1735	3403		SFG1	STD	T3	SET BASE ADDRESS	FDL	700
1736	3030		SFG2	LDD	GN	CHECK GROUP NAME	FDL	701
1737	4303			LMI	T3		FDL	702
1740	2200	3777		LPC	3777		FDL	703
1742	0411			ZJN	SFG4	IF MATCH	FDL	704
1743	3725		SFG3	SOD	CC	DECREMENT GROUP COUNT	FDL	705
1744	0446			ZJN	SFGX	IF ALL GROUPS PROCESSED	FDL	706
1745	3626			AOD	G0	INCREMENT GROUP ORDINAL	FDL	707
1746	1405			LDN	5	ADVANCE TO NEXT ITEM	FDL	708
1747	3503			RAD	T3		FDL	709
1750	3260			SBD	BL	CHECK BUFFER LIMIT	FDL	710
1751	0624			PJN	SFG5	IF BUFFER EXHAUSTED	FDL	711
1752	0363			UJN	SFG2	LOOP	FDL	712
1753	3031		SFG4	LDD	GN+1	COMPARE NAME CHARACTERS 3 AND 4	FDL	713
1754	5303	0001		LMM	1,T3		FDL	714
1756	0564			NJN	SFG3	IF NO MATCH	FDL	715
1757	3032			LDD	GN+2	COMPARE NAME CHARACTERS 5 AND 6	FDL	716
1760	5303	0002		LMM	2,T3		FDL	717
1762	0560			NJN	SFG3	IF NO MATCH	FDL	718
1763	3033			LDD	GN+3	COMPARE NAME CHARACTER 7	FDL	719
1764	5303	0003		LMM	3,T3		FDL	720
1766	1377			SCN	77		FDL	721
1767	0553			NJN	SFG3	IF NO MATCH	FDL	722
1770	5003	0004		LDM	4,T3	SET CAPSULE COUNT	FDL	723
1772	3425			STD	CC		FDL	724
1773	0100	1713		LJM	SFGX	RETURN	FDL	725
1775	3017		SFG5	LDD	ER	CHECK EOR STATUS	FDL	726
1776	0503			NJN	SFG6	IF EOR NOT IN BUFFER	FDL	727
1777	0100	1713		LJM	SFGX	RETURN, SET NAME NOT FOUND	FDL	728
2001	0200	3003	SFG6	RJM	SIS	SET INTERLOCK STATUS	FDL	729
2003	2000	3423		LDC	BUF	RELOAD BUFFER	FDL	730
2005	0200	2342		RJM	LBM	LOAD BUFFER MEMORY	FDL	731
2007	2000	3425		LDC	BUF+2	RESET BASE ADDRESS	FDL	732
2011	0100	1735		LJM	SFG1	LOOP	FDL	733

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\*\* COMMON SUBROUTINES.

242L642 79  
242L642 80  
242L642 81  
242L642 82

1	2013	0100 2013	COMMON						242L642	82
2										
3										
4										
5										
6			**	CRP					FDL	768
7			*						FDL	769
8			*	ENTRY	(DPPB - DPPB+1) =	CURRENT ACCUMULATOR UPDATE.			FDL	770
9			*						FDL	771
10			*	USES	CM - CM+4, GN+3 - GN+4.				FDL	772
11			*						FDL	773
12			*	CALLS	DPP.				FDL	774
13			*						FDL	775
14			*	MACROS	LDCA, MONITOR.				FDL	776
15									FDL	777
16									FDL	778
17	2126	0100 2126	CRP	SUBR		ENTRY/EXIT			FDL	779
18	2130	5000 2245		LDM	DPPC	CHECK TIME TO RECALL			FDL	780
19	2132	2177 6777		ADC	-RSLM				FDL	781
20	2134	0771		MJN	CRPX	IF NOT TIME TO RECALL			FDL	782
21									FDL	783
22			*			SET RECALL PARAMETERS.			FDL	784
23									FDL	785
24	2135	5000 1362		LDM	GNLE				FDL	786
25	2137	1076		SHN	-1				FDL	787
26	2140	3410		STD	CM				FDL	788
27	2141	1400	CRPA	LDN	0	SET NUMBER OF LOCAL USER LIBRARIES			FDL	789
28	2142	1004		SHN	4				FDL	790
29	2143	3310		LMD	CM				FDL	791
30	2144	1006		SHN	6				FDL	792
31	2145	1140		LMN	40	SET RECALL BIT			FDL	793
32	2146	3553		RAD	IR+3				FDL	794
33	2147	3037		LDD	DI	SET DIRECTORY INDEX			FDL	795
34	2150	3452		STD	IR+2				FDL	796
35	2151	5000 1303		LDM	GNLC	SET LIBRARY ORDINAL POSITION			FDL	797
36	2153	1201		LPN	1				FDL	798
37	2154	1101		LMN	1				FDL	799
38	2155	3434		STD	GN+4				FDL	800
39	2156	5000 2656		LDM	SCSA	SET EXISTING ERROR CODE			FDL	801
40	2160	1011		SHN	11				FDL	802
41	2161	3534		RAD	GN+4				FDL	803
42	2162	1063		SHN	-14				FDL	804
43	2163	3533		RAD	GN+3				FDL	805
44	2164	3053		LDCA	IR+3	REWRITE PARAMETER BLOCK			FDL	806
45	2172	6230		CWD	GN				FDL	807
46	2173	1401		LDN	1	SELECT NO DROP PP			FDL	808
47	2174	0200 2214		RJM	DPP	UPDATE ACCOUNTING			FDL	809
48	2176	1466		LDN	ZERL				FDL	810
49	2177	6010		CRD	CM				FDL	811
50	2200	1405		LDN	PTLR	PRU TRANSFER LIMIT			FDL	812
51	2201	3410		STD	CM				FDL	813
52	2202	3077		LDD	MA	STORE PP RECALL REQUEST			FDL	814
53	2203	6250		CWD	IR				FDL	815
54	2204	1601		ADN	1				FDL	816

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2205	6210		CWD	CM		FDL	817
2206	1472		MONITOR	RECM		FDL	818
2211	0100 0257		LJM	PPR	EXIT TO PP RESIDENT	FDL	819
			**		DPP - DROP PPU.	FDL	821
			*			FDL	822
			*		ENTRY (A) = 0 IF PP TO BE DROPPED.	FDL	823
			*		(FA) = FNT ADDRESS.	FDL	824
			*		(FS - FS+4) = FST INFORMATION.	FDL	825
			*		(DPPB - DPPB+1) = MASS STORAGE ACCOUNTING INCREMENT.	FDL	826
			*			FDL	827
			*		EXIT ACCOUNTING UPDATED.	FDL	828
			*		FST SET NOT BUSY.	FDL	829
			*		PP DROPPED IF SELECTED.	FDL	830
			*			FDL	831
			*		USES CM - CM+4.	FDL	832
			*			FDL	833
			*		MACROS MONITOR, NFA.	FDL	834
						FDL	835
						FDL	836
2213	0100 2213		DPP	SUBR	ENTRY/EXIT	FDL	837
2215	3412		STD	CM+2	SET PP DROP / NO DROP OPTION	FDL	838
2216	3057		LDD	FA		FDL	839
2217	0407		ZJN	DPP1	IF NO LOCAL FNT	FDL	840
2220	3624		AOD	FS+4		FDL	841
2221	3055		NFA	FA,R	SET FST NOT BUSY	FDL	842
2224	1601		ADN	FSTL		FDL	843
2225	6220		CWD	FS		FDL	844
2226	3077		DPP1	LDD	MA	FDL	845
2227	6370 2240		CWM	DPPA,ON	COPY PARAMETER WORD TO MESSAGE BUFFER	FDL	846
2231	1401		LDN	1	SET WORD COUNT	FDL	847
2232	3411		STD	CM+1		FDL	848
2233	2000 0114		MONITOR	UADM		FDL	849
2237	0353		UJN	DPPX	RETURN	FDL	850
						FDL	851
2240	0020		DPPA	CON	AISS	FDL	852
2241	0053		CON	IOAW	WORD TO UPDATE	FDL	853
2242	5024		CON	40D*100+20D	FIELD TO UPDATE	FDL	854
2243	0000 0000		DPPB	CON	0,0	FDL	855
2245	0000		DPPC	DATA	0	FDL	856

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	**				ERR - ERROR PROCESSOR.			FDL	858
	*							FDL	859
	*				ENTRY (A) = ERROR CODE.			FDL	860
	*							FDL	861
	*				EXIT RETURN IF CONTINUATION ERROR. (MULTIPLE ERROR CODES)			FDL	862
	*				SET ERROR CODE AND DROP IF NON-FATAL ERROR.			FDL	863
	*				EXECUTE *2LD* IF FATAL ERROR.			FDL	864
	*							FDL	865
	*				USES EC, SI - SI+1.			FDL5	3
	*							FDL	867
	*				CALLS SCS, 2LD.			FDL	868
	*							FDL	869
	*				MACROS EXECUTE.			FDL	870
								FDL	871
								FDL	872
13		2246	0100 2246		ERR	SUBR	ENTRY/EXIT	FDL	873
14		2250	3447			STD EC	STORE ERROR CODE	FDL5	4
15		2251	1740			SBN /ERR/FERT	CHECK FOR FATAL ERROR	FDL	875
16		2252	0713			MJN ERR1	IF NOT FATAL ERROR	FDL	876
17		2253	5000 2243			LDM DPPB	SET MASS STORAGE INCREMENT	FDL	877
18		2255	3461			STD SI		FDL	878
19		2256	5000 2244			LDM DPPB+1		FDL	879
20		2260	3462			STD SI+1		FDL	880
21		2261	2035 1404			EXECUTE 2LD		FDL	881
22								FDL	882
23		2265	1500		ERR1	LCN 0	SET ERROR CODE BITS IN RESPONSE	FDL	883
24		2266	3347			LMD EC		FDL5	5
25		2267	5400 2274			STM ERRA		FDL	885
26		2271	5000 2656			LDM SCSA		FDL	886
27		2273	2200 2273			LPC *		FDL	887
28				2274	ERRA	EQU *-1		FDL	888
29		2275	3347			LMD EC		FDL5	6
30		2276	5400 2656			STM SCSA		FDL	890
31		2300	3047			LDD EC	CHECK FOR CONTINUATION	FDL5	7
32		2301	1110			LMN /ERR/ILE		FDL	892
33		2302	0443			ZJN ERRX	IF CONTINUATION ERROR	FDL	893
34		2303	1130			LMN /ERR/IDS&/ERR/ILE		FDL	894
35		2304	0441			ZJN ERRX	IF CONTINUATION ERROR	FDL	895
36		2305	0100 2655			LJM SCS	SET COMPLETE STATUS	FDL	896
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
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	**				IBA - INCREMENT BUFFER ADDRESS.		FDL	898
	*						FDL	899
	*				ENTRY (T3) = BUFFER ADDRESS.		FDL	900
	*				(IBAA - IBAA+1) = DATA SAVED FROM LAST SECTOR.		FDL	901
	*						FDL	902
	*				EXIT (A) .GE. 0 IF BUFFER FULL.		FDL	903
	*				(T3) = NEW BUFFER ADDRESS.		FDL	904
	*				(BL) = BUFFER LIMIT ADDRESS.		FDL	905
	*				(IBAA - IBAA+1) = DATA SAVED FROM CURRENT SECTOR.		FDL	906
	*				PREVIOUS DATA RESTORED OVER LINKAGE BYTES.		FDL	907
	*						FDL	908
	*				USES T3.		FDL	909
							FDL	910
							FDL	911
12		2307	4003		IBA1 LDI T3 SAVE DATA AREA		FDL	912
13		2310	5400 2337		STM IBAA		FDL	913
14		2312	5003 0001		LDM 1,T3		FDL	914
15		2314	5400 2340		STM IBAA+1		FDL	915
16		2316	1501		LCN 1 SET EXIT CONDITION		FDL	916
17							FDL	917
18		2317	0100 2317		IBA SUBR ENTRY/EXIT		FDL	918
19		2321	5000 2337		LDM IBAA RESTORE PREVIOUS DATA		FDL	919
20		2323	4403		STI T3		FDL	920
21		2324	5000 2340		LDM IBAA+1		FDL	921
22		2326	5403 0001		STM 1,T3		FDL	922
23		2330	2000 0500		LDC 100*5 INCREMENT BUFFER ADDRESS		FDL	923
24		2332	3503		RAD T3		FDL	924
25		2333	2177 1001		ADC -BFMS CHECK BUFFER FULL		FDL	925
26		2335	0751		MJN IBA1 IF BUFFER NOT FULL		FDL	926
27		2336	0360		UJN IBAX EXIT		FDL	927
28							FDL	928
29							FDL	929
30		2337	0000 0000		IBAA CON 0,0 DATA SAVE AREA		FDL	930
31								
32								
33								
34								
35					** LBM - LOAD BUFFER MEMORY.		FDL	932
36					*		FDL	933
37					ENTRY (A) = ADDRESS OF START OF BUFFER.		FDL	934
38					*		FDL	935
39					EXIT (BL) = BUFFER LIMIT ADDRESS.		FDL	936
40					(ER) = BUFFER EOR/EOF/EOI STATUS.		FDL	937
41					(DPPB - DPPB+1) = SRU ACCUMULATOR INCREMENTED.		FDL	938
42					BUFFER FILLED OR EOR/EOF/EOI ENCOUNTERED.		FDL	939
43					CHANNEL DROPPED.		FDL	940
44					TRACK INTERLOCK CLEARED, IF SET.		FDL	941
45					TO *SCS* IF ERROR FLAG SET.		FDL	942
46					*		FDL	943
47					USES T3, BL, ER, DPPB - DPPB+1.		FDL	944
48					*		FDL	945
49					CALLS CIS, IBA, RNS, SCS.		FDL	946
50					*		FDL	947
51					MACROS ENDMS, PAUSE.		FDL	948
52							FDL	949
53							FDL	950
54		2341	0100 2341		LBM SUBR ENTRY/EXIT		FDL	951
55								
56								
57								
58								
59								
60								

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2343	3403			STD	T3	SET BUFFER FWA	FDL	952
2344	1602			ADN	2	SET INITIAL BUFFER LIMIT	FDL	953
2345	3460			STD	BL		FDL	954
2346	0304			UJN	LBM2		FDL	955
							FDL	956
2347	0200	2320	LBM1	RJM	IBA	INCREMENT BUFFER ADDRESS	FDL	957
2351	0632			PJN	LBM4	IF BUFFER FULL	FDL	958
2352	1401		LBM2	LDN	IMLL	INCREMENT MASS STORAGE ACCUMULATOR	FDL	959
2353	5500	2244		RAM	DPPB+1		FDL	960
2355	1063			SHN	-14		FDL	961
2356	5500	2243		RAM	DPPB		FDL	962
2360	5600	2245		AOM	DPPC		FDL	963
2362	3003			LDD	T3	READ NEXT SECTOR	FDL	964
2363	0200	2076		RJM	RNS		FDL	965
2365	1002			SHN	2	ADJUST BUFFER LIMIT ADDRESS	FDL	966
2366	3101			ADD	T1		FDL	967
2367	3560			RAD	BL		FDL	968
2370	3001			LDD	T1	SET EOR/EOF/EOI STATUS	FDL	969
2371	1071			SHN	-6		FDL	970
2372	3417			STD	ER		FDL	971
2373	0553			NJN	LBM1	IF NOT EOR/EOF/EOI	FDL	972
							FDL	973
2374	5000	2337	LBM3	LDM	IBAA	RESTORE BASHED DATA	FDL	974
2376	4403			STI	T3		FDL	975
2377	5000	2340		LDM	IBAA+1		FDL	976
2401	5403	0001		STM	1,T3		FDL	977
2403	0200	0535	LBM4	ENDMS			FDL	978
2405	0200	2014		RJM	CIS	CLEAR INTERLOCK STATUS	FDL	979
2407	1400			PAUSE			FDL	980
2415	3011			LDD	CM+1	CHECK ERROR FLAG	FDL	981
2416	0403			ZJN	LBM5	IF ERROR FLAG NOT SET	FDL	982
2417	0100	2655		LJM	SCS	SET COMPLETE STATUS	FDL	983
							FDL	984
2421	0100	2341	LBM5	LJM	LBMX	RETURN	FDL	985



	**				PDE - PROCESS DIRECTORY ENTRY.		FDL	1018
	*						FDL	1019
	*				ENTRY (T3) = ADDRESS OF DIRECTORY ENTRY.		FDL	1020
1	*				(CL) = LENGTH OF CENTRAL MEMORY DIRECTORY.		FDL	1021
2	*				(DI) = CURRENT LENGTH REQUIRED FOR DIRECTORY.		FDL	1022
3	*				(DL) = USER SPECIFIED DIRECTORY LENGTH.		FDL	1023
4	*				(TI - TI+1) = BASE RANDOM ADDRESS OF LIBRARY.		FDL	1024
5	*				(PDEB) = INDEX TO LIBRARY FILE HEADER IN DIRECTORY.		FDL	1025
6	*				(DIRA - DIRA+4) = FIRST WORD OF DIRECTORY ENTRY.		FDL	1026
7	*						FDL	1027
8	*				EXIT IF ENTRY FOUND IN DIRECTORY.		FDL	1028
9	*				NO CHANGE.		FDL	1029
10	*				IF ENTRY NOT FOUND AND NO DIRECTORY OVERFLOW.		FDL	1030
11	*				(CL) UPDATED TO REFLECT ENTRY LENGTH.		FDL	1031
12	*				(DI) UPDATED TO REFLECT ACTUAL DIRECTORY LENGTH.		FDL	1032
13	*				ENTRY WRITTEN TO DIRECTORY.		FDL	1033
14	*				IF ENTRY NOT FOUND AND DIRECTORY OVERFLOW.		FDL	1034
15	*				(DI) UPDATED TO REFLECT ACTUAL DIRECTORY LENGTH.		FDL	1035
16	*				ERROR CODE *IDS* SET IN RESPONSE.		FDL	1036
17	*						FDL	1037
18	*				USES T1, T3, CL, DI, DL.		FDL	1038
19	*						FDL	1039
20	*				CALLS SFE.		FDL	1040
21							FDL	1041
22							FDL	1042
23	*				PROCESS DIRECTORY OVERFLOW.		FDL	1043
24							FDL	1044
25		2423	3001	PDE6	LDD T1	ADVANCE ACTUAL DIRECTORY SPACE REQUIRED	FDL	1045
26		2424	3537		RAD DI		FDL	1046
27		2425	5000 3411		LDM DIRA	CHECK IF FILE HEADER PRESENT	FDL	1047
28		2427	0404		ZJN PDEX	IF NO FILE HEADER	FDL	1048
29		2430	1400		LDN 0	CLEAR FILE HEADER	FDL	1049
30		2431	5400 3411		STM DIRA		FDL	1050
31							FDL	1051
32		2433	0100 2433	PDE	SUBR	ENTRY/EXIT	FDL	1052
33		2435	3027		LDD CL		FDL	1053
34		2436	0404		ZJN PDE1	IF CENTRAL DIRECTORY EMPTY	FDL	1054
35		2437	0200 2744		RJM SFE	SEARCH FOR DUPLICATE ENTRY	FDL	1055
36		2441	0471		ZJN PDEX	IF ENTRY FOUND	FDL	1056
37		2442	1402	PDE1	LDN 2	SET DIRECTORY ENTRY LENGTH	FDL	1057
38		2443	3401		STD T1		FDL	1058
39		2444	5000 3411		LDM DIRA		FDL	1059
40		2446	0402		ZJN PDE2	IF NO FILE HEADER REQUIRED	FDL	1060
41		2447	3601		AOD T1		FDL	1061
42		2450	3067	PDE2	LDD DL		FDL	1062
43			2450	PDEA	EQU *-1		FDL	1063
44				*PDE2	UJN PDE6	(DIRECTORY OVERFLOW)	FDL	1064
45		2451	3227		SBD CL		FDL	1065
46		2452	3201		SBD T1		FDL	1066
47		2453	0612		PJN PDE3	IF WITHIN DIRECTORY	FDL	1067
48		2454	5000 2574		LDM PDED		FDL	1068
49		2456	5400 2450		STM PDEA		FDL	1069
50		2460	1420		ERROR IDS	INSUFFICIENT DIRECTORY SPACE	FDL	1070
51		2463	0100 2423		LJM PDE6	UPDATE REQUIRED DIRECTORY LENGTH	FDL	1071
52							FDL	1072
53		2465	3001	PDE3	LDD T1	ADVANCE CENTRAL MEMORY DIRECTORY LENGTH	FDL	1073
54		2466	3527		RAD CL		FDL	1074

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2467	3003		LDD	T3	SET CAPSULE NAME ADDRESS	FDL	1075
2470	5400 2567		STM	PDEC		FDL	1076
2472	2000 2472		LDC	*	SET FILE INDEX	FDL	1077
		2473	EQU	*-1		FDL	1078
2474	5403 0004		STM	4,T3		FDL	1079
2476	5003 0007		LDM	7,T3	SET ENTRY LENGTH	FDL	1080
2500	1071		SHN	-6		FDL	1081
2501	5400 3422		STM	DIRB+4		FDL	1082
2503	5003 0006		LDM	6,T3		FDL	1083
2505	1006		SHN	6		FDL	1084
2506	5500 3422		RAM	DIRB+4		FDL	1085
2510	1063		SHN	-14		FDL	1086
2511	5400 3421		STM	DIRB+3		FDL	1087
2513	3046		LDD	TI+1	SET RANDOM ADDRESS OF CAPSULE	FDL	1088
2514	5103 0011		ADM	11,T3		FDL	1089
2516	1014		SHN	14		FDL	1090
2517	5400 3420		STM	DIRB+2	SAVE UPPER 12 BITS	FDL	1091
2521	1071		SHN	-6		FDL	1092
2522	1377		SCN	77		FDL	1093
2523	5500 3421		RAM	DIRB+3		FDL	1094
2525	3045		LDD	TI		FDL	1095
2526	5103 0010		ADM	10,T3		FDL	1096
2530	1006		SHN	6		FDL	1097
2531	5500 3420		RAM	DIRB+2		FDL	1098
2533	1400		LDN	0	SET CORE ADDRESS	FDL	1099
2534	5400 3417		STM	DIRB+1		FDL	1100
2536	2000 4000		LDC	4000		FDL	1101
2540	5400 3416		STM	DIRB		FDL	1102
2542	5000 3411		LDM	DIRA	CHECK TWO OR THREE WORD ENTRY	FDL	1103
2544	0413		ZJN	PDE4	IF TWO WORD ENTRY	FDL	1104
						FDL	1105
		*			WRITE THREE WORD DIRECTORY ENTRY.	FDL	1106
						FDL	1107
2545	3065		LDCA	DA	WRITE HEADER WORD TO DIRECTORY	FDL	1108
2553	3137		ADD	DI	ADD INDEX	FDL	1109
2554	6370 3411		CWM	DIRA,ON	FILE HEADER	FDL	1110
2556	0310		UJN	PDE5	WRITE DIRECTORY	FDL	1111
						FDL	1112
		*			WRITE TWO WORD DIRECTORY ENTRY.	FDL	1113
						FDL	1114
2557	3065		LDCA	DA	WRITE DIRECTORY	FDL	1115
2565	3137		ADD	DI	ADD INDEX	FDL	1116
2566	6370 0000		CWM	** ,ON	CAPSULE NAME	FDL	1117
		2567	EQU	*-1		FDL	1118
2570	6370 3416		CWM	DIRB,ON	POSITION INFORMATION	FDL	1119
2572	0100 2423		LJM	PDE6	UPDATE REQUIRED DIRECTORY LENGTH	FDL	1120
						FDL	1121
2574			PDED	BSS	0	FDL	1122
L 2450			LOC	PDEA		FDL	1123
L 2450	0352		UJN	PDE6		FDL	1124
2575			LOC	*0		FDL	1125

```

**      SCP - SEARCH *CLD* FOR PROCEDURE RECORDS.          FDL      1127
*      SCP SEARCHES THE *CLD* FOR A SPECIFIED PROCEDURE    FDL      1128
*      RECORD AND THEN SETS UP THE ENTRY CONDITIONS FOR     FDL      1129
*      *PDE* TO PROCESS THE DIRECTORY ENTRY.                FDL      1130
*      FDL      1131
*      ENTRY (AB - AB+4) = NAME LEFT JUSTIFIED, ZERO FILLED. FDL      1132
*      FDL      1133
*      EXIT (TI - TI+1) = 0.                                FDL      1134
*      (PDEB) = 0.                                          FDL      1135
*      (DIRA - DIRA+4) = SYSTEM LIBRARY DIRECTORY HEADER.   FDL      1136
*      (T3) = *BUF*, WHERE *BUF* CONTAINS THE *CLD* ENTRY IN FDL      1137
*      THE FOLLOWING FORMAT.                                FDL      1138
*      FDL      1139
*      *T BUF      42/PROCEDURE NAME, 18/0                  FDL      1140
*      *T BUF+1    36/0, 24/RANDOM ADDRESS BIAS             FDL      1141
*      FDL      1142
*      USES      T3, T5, T6, TI - TI+1, PDEB, DIRA - DIRA+4. FDL      1143
*      FDL      1144
*      CALLS     CLD.                                       FDL      1145
*      FDL      1146
*      FDL      1147

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19	2575	0100	2575	SCP	SUBR	ENTRY/EXIT	FDL	1148
20	2577	1466			LDN	ZERL	FDL	1149
21	2600	6170	3411		CRM	DIRA,ON	FDL	1150
22	2602	1500			LCN	0	FDL	1151
23	2603	5400	3411		STM	DIRA	FDL	1152
24	2605	0200	3110		RJM	CLD	FDL	1153
25	2607	0465			ZJN	SCPX	FDL	1154
26	2610	6170	3430		CRM	BUF+5,ON	FDL	1155
27	2612	1400			LDN	0	FDL	1156
28	2613	3405			STD	T5	FDL	1157
29	2614	3077			LDD	MA	FDL	1158
30	2615	6230			CWD	AB	FDL	1159
31	2616	6170	3423		CRM	BUF,ON	FDL	1160
32	2620	2000	3423		LDC	BUF	FDL	1161
33	2622	3403			STD	T3	FDL	1162
34	2623	5000	3426		LDM	BUF+3	FDL	1163
35	2625	1377			SCN	77	FDL	1164
36	2626	5400	3426		STM	BUF+3	FDL	1165
37	2630	1400			LDN	0	FDL	1166
38	2631	5400	3427		STM	BUF+4	FDL	1167
39	2633	5400	3430		STM	BUF+1*5+0	FDL	1168
40	2635	5400	3431		STM	BUF+1*5+1	FDL	1169
41	2637	5400	3432		STM	BUF+1*5+2	FDL	1170
42	2641	3445			STD	TI	FDL	1171
43	2642	3446			STD	TI+1	FDL	1172
44	2643	5400	2473		STM	PDEB	FDL	1173
45	2645	5000	3433		LDM	BUF+1*5+3	FDL	1174
46	2647	1277			LPN	77	FDL	1175
47	2650	5400	3433		STM	BUF+1*5+3	FDL	1176
48	2652	1401			LDN	1	FDL	1177
49	2653	0100	2575		LJM	SCPX	FDL	1178
50						RETURN		

**	SCS - SET COMPLETE STATUS.	FDL	1180
*		FDL	1181
*	ENTRY (DI) = ACTUAL LENGTH OF DIRECTORY REQUIRED.	FDL	1182
*	(SCSA) = CURRENT STATUS CODE.	FDL	1183
*	(IR+3 - IR+4) = FET ADDRESS.	FDL	1184
*		FDL	1185
*	EXIT STATUS SET IN FIRST WORD OF FET.	FDL	1186
*	UPDATED DIRECTORY LENGTH RETURNED.	FDL	1187
*	LOCAL FILE SET NOT BUSY IF PRESENT.	FDL	1188
*		FDL	1189
*	USES GN - GN+4, CM - CM+4, FS - FS+4.	FDL	1190
*		FDL	1191
*	CALLS DPP.	FDL	1192
*		FDL	1193
*	MACROS LDCA.	FDL	1194
		FDL	1195
		FDL	1196
2655	2000 0000 SCS LDC 0 SET STATUS CODE	FDL	1197
	2656 SCSA EQU *-1	FDL	1198
2657	1011 SHN 11 POSITION STATUS RESPONSE	FDL	1199
2660	1601 ADN 1 SET COMPLETE BIT	FDL	1200
2661	3434 STD GN+4	FDL	1201
2662	1063 SHN -14	FDL	1202
2663	3533 RAD GN+3	FDL	1203
2664	3053 LDCA IR+3 RETURN LENGTH OF DIRECTORY	FDL	1204
2672	1601 ADN 1	FDL	1205
2673	6010 CRD CM	FDL	1206
2674	3012 LDD CM+2 SET DIRECTORY LENGTH	FDL	1207
2675	1377 SCN 77	FDL	1208
2676	1006 SHN 6	FDL	1209
2677	3337 LMD DI	FDL	1210
2700	1071 SHN -6	FDL	1211
2701	3412 STD CM+2	FDL	1212
2702	3037 LDD DI	FDL	1213
2703	1006 SHN 6	FDL	1214
2704	3313 LMD CM+3	FDL	1215
2705	1377 SCN 77	FDL	1216
2706	3313 LMD CM+3	FDL	1217
2707	3413 STD CM+3	FDL	1218
2710	3053 LDCA IR+3 RETURN STATUS	FDL	1219
2716	6230 CWD GN	FDL	1220
2717	1601 ADN 1 RETURN UPDATED DIRECTORY LENGTH	FDL	1221
2720	6210 CWD CM	FDL	1222
2721	1400 LDN 0 SELECT DROP PP	FDL	1223
2722	0200 2214 RJM DPP UPDATE ACCOUNTING	FDL	1224
2724	0100 0257 LJM PPR EXIT TO PP RESIDENT	FDL	1225

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	**			SFE - SEARCH FOR ENTRY IN CENTRAL MEMORY DIRECTORY.		FDL	1227
	*					FDL	1228
	*			ENTRY (T3) = INDEX TO CAPSULE NAME.		FDL	1229
	*			(CL) = LENGTH OF CENTRAL MEMORY DIRECTORY.		FDL	1230
	*					FDL	1231
	*			EXIT (A) .EQ. 0 IF MATCHING ENTRY FOUND.		FDL	1232
	*			(A) .NE. 0 IF NO MATCH FOUND.		FDL	1233
	*					FDL	1234
	*			USES T1, CM - CM+4.		FDL	1235
						FDL	1236
						FDL	1237
1	2726	3011	SFE4	LDD CM+1	COMPARE BYTE 2 OF CAPSULE NAMES	FDL	1238
2	2727	5303 0001		LMM 1,T3		FDL	1239
3	2731	0535		NJN SFE3	IF BYTES DO NOT COMPARE	FDL	1240
4	2732	3012		LDD CM+2	COMPARE BYTE 3 OF CAPSULE NAMES	FDL	1241
5	2733	5303 0002		LMM 2,T3		FDL	1242
6	2735	0531		NJN SFE3	IF BYTES DO NOT COMPARE	FDL	1243
7	2736	3013		LDD CM+3		FDL	1244
8	2737	5303 0003		LMM 3,T3		FDL	1245
9	2741	1377		SCN 77		FDL	1246
10	2742	0524		NJN SFE3	IF CHARACTERS DO NOT COMPARE	FDL	1247
11						FDL	1248
12	2743	0100 2743	SFE	SUBR	ENTRY/EXIT	FDL	1249
13	2745	1400		LDN 0	INITIALIZE DIRECTORY OFFSET	FDL	1250
14	2746	3401		STD T1		FDL	1251
15	2747	3601	SFE1	AOD T1	INCREMENT DIRECTORY OFFSET	FDL	1252
16	2750	3065	SFE2	LDCA DA	GET DIRECTORY ENTRY	FDL	1253
17	2756	3101		ADD T1		FDL	1254
18	2757	6010		CRD CM		FDL	1255
19	2760	3010		LDD CM		FDL	1256
20	2761	1006		SHN 6		FDL	1257
21	2762	0764		MJN SFE1	IF FILE SPECIFICATION ENTRY	FDL	1258
22						FDL	1259
23			*		COMPARE DIRECTORY ENTRY.	FDL	1260
24						FDL	1261
25	2763	1071		SHN -6		FDL	1262
26	2764	4303		LMI T3	COMPARE NAMES	FDL	1263
27	2765	0440		ZJN SFE4	IF BYTES COMPARE	FDL	1264
28	2766	1402	SFE3	LDN 2	INCREMENT DIRECTORY OFFSET	FDL	1265
29	2767	3501		RAD T1		FDL	1266
30	2770	3227		SBD CL		FDL	1267
31	2771	0756		MJN SFE2	IF MORE CAPSULES TO PROCESS	FDL2	1
32	2772	1401		LDN 1	SET EXIT CONDITION	FDL	1269
33	2773	0347		UJN SFEX	RETURN	FDL	1270

	**				SIS - SET INTERLOCK STATUS.		FDL	1272
	*						FDL	1273
	*				ENTRY (SISA) = TRACK NUMBER IF INTERLOCK REQUIRED.		242L642	83
	*						242L642	84
	*				EXIT (CISA) = TRACK NUMBER IF INTERLOCK SET.		242L642	85
	*				(T6) SAVED AND RESTORED.		FDL	1279
	*				TO *SCS* IF ERROR FLAG SET.		FDL	1280
	*						FDL	1281
	*				USES T6.		FDL	1282
	*						FDL	1283
	*				CALLS STI, SCS.		FDL	1284
							FDL	1285
							FDL	1286
11		2774	3006		SIS1 LDD T6 SET TRACK INTERLOCKED STATUS		242L642	86
12		2775	5400 2016		STM CISA		242L642	87
13		2777	2000 0000		LDC 0 RESTORE CURRENT TRACK		242L642	88
14			3000		SISB EQU *-1		242L642	89
15		3001	3406		STD T6		242L642	90
16							242L642	91
17		3002	0100 3002		SIS SUBR ENTRY/EXIT		242L642	92
18		3004	3006		LDD T6		242L642	93
19		3005	5400 3000		STM SISB		242L642	94
20		3007	2000 0000		LDC 0 CHECK INTERLOCK REQUIRED STATUS		242L642	95
21			3010		SISA EQU *-1		242L642	96
22		3011	0470		ZJN SISX IF NO INTERLOCK REQUIRED		242L642	97
23		3012	3406		STD T6		FDL	1294
24		3013	0200 3275		RJM STI SET TRACK INTERLOCK		FDL	1295
25		3015	0456		ZJN SIS1 IF ERROR FLAG NOT SET		FDL	1296
26		3016	0100 2655		LJM SCS SET COMPLETE STATUS		FDL	1297
31	**				VOT - VALIDATE *OPLD* TABLE.		FDL	1305
32	*						FDL	1306
33	*				ENTRY (T3) = BUFFER ADDRESS.		FDL	1307
34	*				(BL) = BUFFER LIMIT ADDRESS.		FDL	1308
35	*						FDL	1309
36	*				EXIT (A) .LT. 0 IF ERROR IN TABLE.		FDL	1310
37	*				(T2) = *OPLD* TABLE BASE ADDRESS.		FDL	1311
38							FDL	1312
39							FDL	1313
40		3020	1501		VOT1 LCN 1 SET EXIT CONDITION		FDL	1314
41							FDL	1315
42		3021	0100 3021		VOT SUBR ENTRY/EXIT		FDL	1316
43		3023	5003 0002		LDM 2,T3 CHECK PREFIX TABLE		FDL	1317
44		3025	2300 7700		LMC 7700		FDL	1318
45		3027	0570		NJN VOT1 IF NOT 7700 TABLE		FDL	1319
46		3030	5003 0003		LDM 3,T3 SET *OPLD* TABLE ADDRESS		FDL	1320
47		3032	1601		ADN 1		FDL	1321
48		3033	3402		STD T2		FDL	1322
49		3034	1002		SHN 2		FDL	1323
50		3035	3502		RAD T2		FDL	1324
51		3036	1602		ADN 2		FDL	1325
52		3037	3103		ADD T3		FDL	1326
53		3040	3402		STD T2		FDL	1327
54		3041	1616		ADN 3*5-1 CHECK MINIMUM *OPLD* IN BUFFER		FDL	1328



3042	3260		SBD	BL		FDL	1329	
3043	0654		PJN	VOT1	IF *OPLD* NOT IN BUFFER	FDL	1330	
3044	4002		LDI	T2	CHECK *OPLD* TABLE	FDL	1331	
3045	2300	7000	LMC	7000		FDL	1332	
3047	0550		NJN	VOT1	IF NOT *OPLD* TABLE	FDL	1333	
3050	0350		UJN	VOTX	RETURN	FDL	1334	
			**		VUT - VALIDATE *ULIB* TABLES.	FDL	1336	
			*			FDL	1337	
			*	ENTRY	(T3) = BUFFER ADDRESS.	FDL	1338	
			*		(BL) = BUFFER LIMIT ADDRESS.	FDL	1339	
			*			FDL	1340	
			*	EXIT	(A) = NUMBER OF GROUP NAMES IN *ULIB*.	FDL	1341	
			*		(A) = 1 IF FUNCTION CODE 404.	FDL	1342	
			*		(A) = 0 IF ERROR IN *ULIB* TABLE.	FDL	1343	
			*		(T2) = *ULIB* TABLE BASE ADDRESS.	FDL	1344	
						FDL	1345	
						FDL	1346	
3051	1400		VUT2	LDN	0	SET EXIT CONDITION	FDL	1347
							FDL	1348
3052	0100	3052	VUT	SUBR		ENTRY/EXIT	FDL	1349
3054	5003	0002	LDM	2,T3		CHECK PREFIX TABLE	FDL	1350
3056	2300	7700	LMC	7700			FDL	1351
3060	0570		NJN	VUT2	IF NOT 7700 TABLE		FDL	1352
3061	5003	0003	LDM	3,T3		SET PREFIX TABLE LENGTH	FDL	1353
3063	1601		ADN	1			FDL	1354
3064	3402		STD	T2			FDL	1355
3065	1002		SHN	2			FDL	1356
3066	3502		RAD	T2			FDL	1357
3067	1602		ADN	2			FDL	1358
3070	3103		ADD	T3			FDL	1359
3071	3402		STD	T2			FDL	1360
3072	1611		ADN	2*5-1	CHECK MINIMUM *ULIB* IN BUFFER		FDL	1361
3073	3260		SBD	BL			FDL	1362
3074	0654		PJN	VUT2	IF *ULIB* NOT IN BUFFER		FDL	1363
3075	4002		LDI	T2	CHECK *ULIB* RECORD		FDL	1364
3076	2300	7600	LMC	7600			FDL	1365
3100	0550		NJN	VUT2	IF NOT *ULIB* RECORD		FDL	1366
3101	1400		VUTA	LDN	0		FDL	1367
			*	LDN	1	(FUNCTION CODE 404)	FDL	1368
3102	0402		ZJN	VUT1	IF NOT FUNCTION CODE 404		FDL	1369
3103	0346		UJN	VUTX	RETURN		FDL	1370
							FDL	1371
3104	5002	0001	VUT1	LDM	1,T2	SET NUMBER OF GROUP NAMES IN *ULIB*	FDL	1372
3106	0343		UJN	VUTX	RETURN		FDL	1373



\*\* COMMON DECKS.

FDL 1376  
FDL 1377  
FDL 1378

1	3107		CTEXT	COMPCLD	- SEARCH CENTRAL LIBRARY DIRECTORY.	COMPCLD	1
2	3127		CTEXT	COMPCRA	- CONVERT RANDOM ADDRESS.	COMPCRA	1
3	3175		CTEXT	COMPSAF	- SEARCH FOR ASSIGNED FILE.	COMPSAF	1
4	3245		CTEXT	COMPSFB	- SET FILE BUSY.	COMPSFB	1
5	3273		CTEXT	COMPSTI	- SET TRACK INTERLOCK.	COMPSTI	1
6						FDL	1386
7	3335		CTEXT	COMPIRA	- INITIALIZE RANDOM ACCESS PROCESSORS.	COMPIRA	1
8							
9							
10							
11							
12				USE	//	FDL	1389
13						FDL	1390
14			**	TLBD	- GLOBAL LIBRARY SET.	FDL	1391
15						FDL	1392
16						FDL	1393
17	3372	TLBD	EQU	*		FDL	1394
18	3411	TLBDL	EQU	TLBD+3*5		FDL	1395
19						FDL	1396
20						FDL	1397
21			*	RETURNED DIRECTORY ENTRY.		FDL	1398
22						FDL	1399
23	3411	DIRA	EQU	TLBDL		FDL	1400
24	3416	DIRB	EQU	DIRA+1*5		FDL	1401
25						FDL	1402
26						FDL	1403
27			**	BUF	- MASS STORAGE BUFFER.	FDL	1404
28						FDL	1405
29						FDL	1406
30	3423	BUF	EQU	DIRB+1*5		FDL	1407
31						FDL	1408
32	3352	.1	SET	BFMS+1-BUF-2		FDL	1409
33	5		ERRZR	.1/500	MAXIMUM SECTORS FOR BUFFER	FDL	1410
34	252		ERRNG	.1-.1/500*500	BYTES REMAINING BEFORE OVERFLOW	FDL	1411

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	**			PRS - PRESET.			FDL	1414
	*						FDL	1415
	*			ENTRY (IR - IR+4) = *LDD* CALL.			FDL	1416
1	*						FDL	1417
2	*			EXIT (DI) = 0.			FDL	1418
3	*			(CL) = 0.			FDL	1419
4	*			(GN - GN+4) = GROUP NAME.			FDL	1420
5	*			(DL) = USER SPECIFIED DIRECTORY LENGTH.			FDL	1421
6	*			(DA) = DIRECTORY BASE ADDRESS.			FDL	1422
7	*			(UL - UL+1) = USER SPECIFIED LIBLIST ADDRESS.			FDL	1423
8	*			(LNLA) = FNT FWA.			FDL	1424
9	*			TO *ERR* IF ILLEGAL PARAMETER OR ADDRESS.			FDL	1425
10	*						FDL	1426
11	*			USES CL, CM - CM+4, DA, DI, DL, FA, GN - GN+4,			FDL	1427
12	*			UL - UL+1, LNLA.			FDL	1428
13	*						FDL	1429
14	*			CALLS CRS.			FDL	1430
15	*						FDL	1431
16	*			MACROS ERROR, LDCA.			FDL	1432
17							FDL	1433
18							FDL	1434
19		3372	0100 3372	PRS	SUBR	ENTRY/EXIT	FDL	1435
20		3374	1400		LDN 0		FDL1	1
21		3375	3437		STD DI	CLEAR DIRECTORY INDEX	FDL1	2
22		3376	3457		STD FA	CLEAR FNT ADDRESS	FDL1	3
23		3377	3427		STD CL	CLEAR CENTRAL DIRECTORY LENGTH	FDL	1438
24		3400	3053		LDD IR+3	SET RECALL OPTION	FDL	1439
25		3401	1072		SHN -5		FDL	1440
26		3402	1201		LPN 1		FDL	1441
27		3403	5500 3551		RAM PRSA		FDL	1442
28		3405	3053		LDD IR+3	CHECK PARAMETER ADDRESS	FDL	1443
29		3406	5400 3600		STM PRSB	SAVE RECALL PARAMETERS	FDL	1444
30		3410	1237		LPN 37		FDL	1445
31		3411	3453		STD IR+3		FDL	1446
32		3412	1014		SHN 14		FDL	1447
33		3413	3354		LMD IR+4		FDL	1448
34		3414	1702		SBN 2		FDL	1449
35		3415	0705		MJN PRS1	IF ILLEGAL ADDRESS	FDL	1450
36		3416	1603		ADN 1+2		FDL	1451
37		3417	1071		SHN -6		FDL	1452
38		3420	3256		SBD FL		FDL	1453
39		3421	0704		MJN PRS2	IF PARAMETER ADDRESS WITHIN FL	FDL	1454
40		3422	1440	PRS1	ERROR ARG	* ARGUMENT ERROR.*	FDL	1455
41							FDL	1456
42		3425	0200 3650	PRS2	RJM CRS	CHECK RECALL STATUS	FDL	1457
43		3427	0472		ZJN PRS1	IF NOT CALLED WITH AUTO RECALL	FDL	1458
44		3430	3053		LDCA IR+3	READ GROUP NAME AND FUNCTION CODE	FDL	1459
45		3436	6030		CRD GN		FDL	1460
46		3437	1601		ADN 1	READ SECOND WORD OF PARAMETER BLOCK	FDL	1461
47		3440	6010		CRD CM		FDL	1462
48		3441	3033		LDD GN+3	CLEAR STATUS CODE	FDL	1463
49		3442	1377		SCN 77		FDL	1464
50		3443	3433		STD GN+3		FDL	1465
51		3444	3034		LDD GN+4	CHECK FUNCTION CODE	FDL	1466
52		3445	2200 0776		LPC 776		FDL	1467
53		3447	0425		ZJN PRS4	IF LEGAL FUNCTION CODE	FDL	1468
54		3450	2300 0402		LMC 402	CHECK FOR FUNCTION CODE 402	NS2278	6

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3452	0414	ZJN	PRS2.5	IF FUNCTION CODE IS 402	NS2278	7	
3453	1106	LMK	404&402	CHECK FOR FUNCTION CODE 404	NS2278	8	
3454	0515	NJN	PRS3	IF ILLEGAL FUNCTION CODE	FDL	1470	
					FDL	1471	
		*		SET FUNCTION CODE 404 PROCESSING.	FDL	1472	
					FDL	1473	
3455	5600 1136	AOM	LDDA		FDL	1474	
3457	5600 1621	AOM	PGMA		FDL	1475	
3461	5600 1727	AOM	SFGA		FDL	1476	
3463	5600 3101	AOM	VUTA		FDL	1477	
3465	0307	UJN	PRS4		FDL	1478	
					NS2278	9	
		*		SET FUNCTION CODE 402 PROCESSING.	NS2278	10	
					NS2278	11	
3466	5600 1102	PRS2.5	AOM	LDDB	NS2278	12	
3470	0304	UJN	PRS4	CONTINUE PROCESSING	NS2278	13	
					FDL	1479	
3471	1401	PRS3	ERROR	ILF	ILLEGAL FUNCTION CODE	FDL	1480
					FDL	1481	
3474	3012	PRS4	LDD	CM+2	SET LENGTH OF USER SPECIFIED DIRECTORY	FDL	1482
3475	1006		SHN	6		FDL	1483
3476	3467		STD	DL		FDL	1484
3477	3013		LDD	CM+3		FDL	1485
3500	1071		SHN	-6		FDL	1486
3501	3567		RAD	DL		FDL	1487
3502	3013		LDD	CM+3	SET DIRECTORY BASE ADDRESS	FDL	1488
3503	1237		LPN	37		FDL	1489
3504	3465		STD	DA		FDL	1490
3505	1014		SHN	14		FDL	1491
3506	3114		ADD	CM+4		FDL	1492
3507	3466		STD	DA+1		FDL	1493
3510	1702		SBN	2	CHECK DIRECTORY ADDRESS	FDL	1494
3511	0706		MJN	PRS5	IF ILLEGAL ADDRESS	FDL	1495
3512	1601		ADN	2-1		FDL	1496
3513	3167		ADD	DL		FDL	1497
3514	1071		SHN	-6		FDL	1498
3515	3256		SBD	FL		FDL	1499
3516	0704		MJN	PRS6	IF DIRECTORY ADDRESS WITHIN FL	FDL	1500
3517	1402	PRS5	ERROR	IAD	ILLEGAL DIRECTORY ADDRESS	FDL	1501
						FDL	1502
3522	3012	PRS6	LDD	CM+2	SET USER LIBLIST ADDRESS	FDL	1503
3523	1071		SHN	-6		FDL	1504
3524	3436		STD	UL+1		FDL	1505
3525	3011		LDD	CM+1		FDL	1506
3526	1006		SHN	6		FDL	1507
3527	3536		RAD	UL+1		FDL	1508
3530	1063		SHN	-14		FDL	1509
3531	1237		LPN	37		FDL	1510
3532	3435		STD	UL		FDL	1511
3533	1014		SHN	14	CHECK USER SPECIFIED LIBLIST ADDRESS	FDL	1512
3534	3336		LMD	UL+1		FDL	1513
3535	0414	ZJN	PRS9	IF NO LIBLIST ADDRESS SPECIFIED	FDL	1514	
3536	1702	SBN	2		FDL	1515	
3537	0705	MJN	PRS7	IF ILLEGAL ADDRESS	FDL	1516	
3540	1602	ADN	2		FDL	1517	
3541	1071	SHN	-6		FDL	1518	
3542	3256	SBD	FL		FDL	1519	

3543	0706			MJN	PRS9	IF USER LIBLIST ADDRESS WITHIN FL	FDL	1520	
3544	1403			ERROR	ILA	ILLEGAL LIBLIST ADDRESS	FDL	1521	
				PRS7			FDL	1522	
3547	0100	3372		PRS8	LJM	PRSX	RETURN	FDL	1523
								FDL	1524
3551	1400			PRS9	LDN	0	CHECK RECALL STATUS	FDL	1525
			3551	PRSA	EQU	*-1		FDL	1526
				*	LDN	1	(RECALL OPTION)	FDL	1527
3552	0474			ZJN	PRS8		IF NOT RECALL OPTION	FDL	1528
3553	3052			LDD	IR+2		SET DIRECTORY LENGTH PARAMETER	FDL	1529
3554	3437			STD	DI			FDL	1530
3555	3427			STD	CL		CL = MIN(DL,DI)	FDL	1531
3556	3267			SBD	DL			FDL	1532
3557	0703			MJN	PRS10		IF (DL) .LT. (DI)	FDL	1533
3560	3067			LDD	DL			FDL	1534
3561	3427			STD	CL			FDL	1535
3562	3053			PRS10	LDCA	IR+3	SET PREVIOUS ERROR CODES	FDL	1536
3570	6010			CRD	CM			FDL	1537
3571	3013			LDD	CM+3			FDL	1538
3572	1014			SHN	14			FDL	1539
3573	3114			ADD	CM+4			FDL	1540
3574	1066			SHN	-11			FDL	1541
3575	5400	2656		STM	SCSA			FDL	1542
3577	2000	3577		LDC	*		SET LIBRARY PARAMETERS	FDL	1543
			3600	PRSB	EQU	*-1		FDL	1544
				*	LDC	IR+3	(RECALL PARAMETERS)	FDL	1545
3601	1071			SHN	-6			FDL	1546
3602	1217			LPN	17			FDL	1547
3603	1001			SHN	1			FDL	1548
3604	5400	1362		STM	GNLE			FDL	1549
3606	1076			SHN	-1			FDL	1550
3607	5500	1275		RAM	GNLA			FDL	1551
3611	3014			LDD	CM+4		CHECK BYTE POSITION	FDL	1552
3612	1201			LPN	1			FDL	1553
3613	0407			ZJN	PRS11		IF NO REPOSITION NEEDED	FDL	1554
3614	2000	1000		LDC	SHNI+0			FDL	1555
3616	5400	1303		STM	GNLC			FDL	1556
3620	5600	1362		AOM	GNLE			FDL	1557
3622	5000	3600		PRS11	LDM	PRSB	SET LOCAL USER LIBRARY PARAMETERS	FDL	1558
3624	1065			SHN	-12			FDL	1559
3625	0420			ZJN	PRS12		IF NO LOCAL USER LIBRARIES	FDL	1560
3626	5500	2141		RAM	CRPA		SET LIBRARY ORDINAL POSITION	FDL	1561
3630	1277			LPN	77		SET LOCAL USER LIBRARY OFFSET	FDL	1562
3631	3410			STD	CM			FDL	1563
3632	1002			SHN	2			FDL	1564
3633	3510			RAD	CM			FDL	1565
3634	2000	3411		LDC	TLBDL			FDL	1566
3636	3210			SBD	CM			FDL	1567
3637	5400	1300		STM	GNLB			FDL	1568
3641	2000	0113		LDC	LB2W			FDL	1569
3643	5400	1347		STM	GNLD			FDL	1570
3645	0100	3372		PRS12	LJM	PRSX	RETURN	FDL	1571

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\*\* COMMON DECKS.

FDL 1573  
FDL 1574  
FDL 1575  
COMPCRS 1

3647

CTEXT COMPCRS - CHECK RECALL STATUS.

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1412THE

IDENT	LDQ,/LDQ/LDQ	FDL	1579
COMMENT	82/02/26. 92/09/17. FDL - LOAD QUICKLY.	FDL	1580
COMMENT	COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.	281L803	2

***	LDQ - LOAD QUICKLY.	FDL	1583
*	GREGG TOWNSEND. 76/02/04.	FDL	1584
*	J. J. EIKUM. 76/04/01.	FDL	1585

***	LDQ IS USED TO QUICKLY READ A CAPSULE OR OVERLAY INTO	FDL	1587
*	THE FIELD LENGTH OF A JOB, GIVEN THE RANDOM ADDRESS OF THE	FDL	1588
*	CAPSULE OR OVERLAY ON A MASS STORAGE DEVICE. THE PREFIX	FDL	1589
*	TABLE IS REMOVED AND THE REST OF THE RECORD IS TRANSFERRED	FDL	1590
*	WITHOUT MODIFICATION.	FDL	1591

***	CALL.	FDL	1593
*		FDL	1594
*		FDL	1595
*T,	18/ *LDQ*,24/ ,18/ ADDR	FDL	1596
*		FDL	1597
*	ADDR ADDRESS OF A FOUR-WORD PARAMETER BLOCK:	FDL	1598
*		FDL	1599
*T ADDR	42/ *FILE*,9/STAT,9/FUNC	FDL	1600
*T,	42/ *GRPNAME*,18/0	FDL	1601
*T,	42/ *NAME*,18/FWA	FDL	1602
*T,	24/0,18/PRU,18/LWA+1	FDL	1603
*		FDL	1604
*	*FILE* FILE FROM WHICH TO LOAD. IF BITS 59-48 = 7777,	FDL	1605
*	THEN LOAD FROM THE SYSTEM.	FDL	1606
*	STAT STATUS RETURNED BY LDQ.	FDL	1607
*	000 FUNCTION COMPLETED SUCCESSFULLY.	FDL	1608
*	001 ILLEGAL FUNCTION.	FDL	1609
*	002 CM BUFFER NOT COMPLETELY WITHIN FIELD LENGTH.	FDL	1610
*	003 NO SUCH FILE, NOT MASS STORAGE, OR EXECUTE-ONLY.	FDL	1611
*	004 PRU NUMBER OUTSIDE FILE BOUNDARIES.	FDL	1612
*	005 WRONG PROGRAM OR GARBAGE FOUND AT SPECIFIED PRU.	FDL	1613
*	006 INSUFFICIENT FWA-LWA SPACE TO HOLD PROGRAM.	FDL	1614
*	FUNC FUNCTION REQUEST. LDQ WILL ADD 1 WHEN FINISHED.	FDL	1615
*	000 LOAD CAPSULE.	FDL	1616
*	002 LOAD OVERLAY.	FDL	1617
*	*GRPNAME* NAME OF CAPSULE GROUP. IGNORED FOR OVERLAY LOAD.	FDL	1618
*	*NAME* NAME OF CAPSULE OR OVERLAY TO BE LOADED.	FDL	1619
*	FWA FIRST WORD ADDRESS OF LOADABLE AREA.	FDL	1620
*	LWA+1 UPPER LIMIT OF LOADABLE AREA.	FDL	1621
*	PRU PRU ADDRESS OF PROGRAM TO BE LOADED.	FDL	1622



LDD

\*\*\* DAYFILE MESSAGES.

\*

\* LDQ - ARGUMENT ERROR - XXXXXX.\* = FET ADDRESS .LT. 2 OR .GT. FL-4.

\*

\* LDQ - I/O SEQUENCE ERROR - FILENAM AT XXXXXX.\* = MULTIPLE CONCURRENT FUNCTIONS WERE ATTEMPTED ON FILE \*FILENAM\*.

\*

\* LDQ - DEVICE ERROR - FILENAM AT XXXXXX.\* = AN UNRECOVERED DEVICE ERROR WAS ENCOUNTERED ON FILE \*FILENAM\*.

\*

FOR ALL MESSAGES, XXXXXX IS THE ADDRESS OF THE \*LDD\* PARAMETER BLOCK.

\*

FDL	1624
FDL	1625
FDL	1626
FDL	1627
FDL	1628
FDL	1629
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1412THE

Line	Address	Qualifier	Function	Description	FDL
		QUAL	LDQ		1638
		**	LDQ	LDQ - MAIN PROGRAM.	1639
					1640
1					1641
2					1642
3	1100	ORG	PPFW		1643
4	1100	0200	1776	LDQ	1644
5	1102	0200	1467	RJM PRS	1645
6	1104	0200	1361	RJM CPY	1646
		*	UJN	CFN	1647
		**	CFN	CFN - COMPLETE FUNCTION.	1649
					1650
					1651
15	1106	3644	CFN	AOD FN+4	1652
16	1107	3053		LDCA IR+3	1653
17	1115	6240		CWD FN	1654
		*	UJN	DPP	1655
		**	DPP	DPP - DROP PP.	1657
					1658
					1659
26	1116	3057	DPP	LDD FA	1660
27	1117	0407		ZJN DPP1	1661
				IF NOT LOCAL FILE LOAD	
28	1120	3624		AOD FS+4	1662
29	1121	3055		NFA FA,R	1663
				SET FST NOT BUSY	
30	1124	1601		ADN FSTL	1664
31	1125	6220		CWD FS	1665
32	1126	3077	DPP1	LDD MA	1666
				STORE *UADM* PARAMETER BLOCK	
33	1127	6370 1143		CWM DPPA,ON	1667
34	1131	1401		LDN 1	1668
				SET WORD COUNT	
35	1132	3411		STD CM+1	1669
36	1133	1400		LDN 0	1670
				SET DROP PP FLAG	
37	1134	3412		STD CM+2	1671
38	1135	2000 0114		MONITOR UADM	1672
				UPDATE ACCOUNTING AND DROP PP	
39	1141	0100 0257		LJM PPR	1673
					1674
					1675
42	1143	0020	DPPA	CON AISS	1676
				SUB FUNCTION	
43	1144	0053		CON IOAW	1677
				WORD TO UPDATE	
44	1145	5024		CON 40D*100+20D	1678
				FIELD TO UPDATE	
45	1146	0000 0000		CON 0,0	1679
				INCREMENT	

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\*\* COMMON SUBROUTINES.

242L642 99  
242L642 100  
242L642 101  
242L642 102

1150 0100 1150 COMMON

\*\* CPN - COMPARE NAMES.

FDL 1682

\*  
\* ENTRY (A) = ADDRESS OF NAME 1.  
\* (GN - GN+3) = NAME 2.

FDL 1683

FDL 1684

FDL 1685

\*  
\* EXIT (A) = 0 IF SEVEN CHARACTERS MATCH.

FDL 1686

FDL 1687

\*  
\* USES T2.

FDL 1688

FDL 1689

FDL 1690

FDL 1691

1263 0100 1263

CPN

SUBR

ENTRY/EXIT

FDL 1692

1265 3402

STD T2

FDL 1693

1266 4002

LDI T2

COMPARE FIRST BYTES

FDL 1694

1267 3330

LMD GN

FDL 1695

1270 0572

NJN CPNX

IF NOT EQUAL

FDL 1696

1271 5002 0001

LDM 1,T2

COMPARE SECOND BYTES

FDL 1697

1273 3331

LMD GN+1

FDL 1698

1274 0566

NJN CPNX

IF NOT EQUAL

FDL 1699

1275 5002 0002

LDM 2,T2

COMPARE THIRD BYTES

FDL 1700

1277 3332

LMD GN+2

FDL 1701

1300 0562

NJN CPNX

IF NOT EQUAL

FDL 1702

1301 5002 0003

LDM 3,T2

COMPARE SEVENTH CHARACTERS

FDL 1703

1303 3333

LMD GN+3

FDL 1704

1304 1377

SCN 77

FDL 1705

1305 0355

UJN CPNX

RETURN WITH (A)=0 ONLY IF MATCH

FDL 1706

	**				CPY - COPY PROGRAM.		FDL	1708
	*						FDL	1709
	*				ENTRY (T1) = VALID WORD COUNT.		FDL	1710
1	*				(T3) = ADDRESS OF WORDS IN PP BUFFER.		FDL	1711
2	*				(T5) = EST ORDINAL.		NS22000	4
3	*				(T6) = TRACK.		FDL	1713
4	*				(T7) = SECTOR.		FDL	1714
5	*				(ER) = EOR FLAG.		FDL	1715
6	*				(FW - FW+1) = FWA OF CM BUFFER.		FDL	1716
7	*				(BS - BS+1) = BUFFER SIZE.		FDL	1717
8	*				(BFMS - BFMS+501) = FIRST SECTOR.		FDL	1718
9	*						FDL	1719
10	*				EXIT TO *ERR* IF CM BUFFER TOO SMALL.		FDL	1720
11	*				CHANNEL DROPPED.		FDL	1721
12	*						FDL	1722
13	*				USES T1, T3, T6, T7, CM - CM+4, FW - FW+1, BS - BS+1,		FDL5	9
14	*				EC, ER.		FDL5	10
15	*						FDL	1724
16	*				CALLS CIS, DDT, MSR, RNS.		FDL4	1
17	*						FDL	1726
18	*				MACROS ENDMS, ERROR.		FDL	1727
19							FDL	1728
20							FDL	1729
21	*				PROCESS DIRECT TRANSFER COPY.		NS21000	4
22							NS21000	5
23		1306	3045		CPY4 LDD FW SET *DDT* PARAMETERS		NS21000	6
24		1307	3165		ADD BS		NS21000	7
25		1310	1014		SHN 14		NS21000	8
26		1311	3146		ADD FW+1		NS21000	9
27		1312	3166		ADD BS+1		NS21000	10
28		1313	1014		SHN 14		NS21000	11
29		1314	3412		STD CM+2		NS21000	12
30		1315	1071		SHN -6		NS21000	13
31		1316	1377		SCN 77		NS21000	14
32		1317	3145		ADD FW		NS21000	15
33		1320	3413		STD CM+3		NS21000	16
34		1321	3046		LDD FW+1		NS21000	17
35		1322	3414		STD CM+4		NS21000	18
36		1323	2003 7777		LDC RDDDS*10000+7777		NS21000	19
37		1325	0200 1574		RJM DDT DO DIRECT TRANSFER		NS21000	20
38		1327	1063		SHN -14		251L664	1
39		1330	3447		STD EC SAVE STATUS		FDL5	11
40		1331	3004		LDD T4 NUMBER OF SECTORS TRANSFERED		NS21000	22
41		1332	5500 1147		RAM DPPA+4 UPDATE ACCOUNT INCREMENT		NS21000	23
42				0	ERRNZ IMLL-1 CODE DEPENDS ON VALUE		NS21000	24
43		1334	1063		SHN -14		NS21000	25
44		1335	5500 1146		RAM DPPA+3		NS21000	26
45		1337	3047		LDD EC		FDL5	12
46		1340	0414		ZJN CPY6 IF NO ERRORS		NS21000	28
47		1341	1015		SHN 21-4		251L664	2
48		1342	0705		MJN CPY5 IF INSUFFICIENT FL TO LOAD		NS21000	30
49		1343	5000 0103		LDM RDCT		FDL4	2
50		1345	0200 1162		RJM MSR PROCESS MASS STORAGE ERROR		FDL4	3
51							NS21000	32
52		1347	0200 0535		CPY5 ENDMS		NS21000	33
53		1351	1406		ERROR IBF INSUFFICIENT BUFFER		FDL	1731
54							FDL	1732

1354	0200 0535		CPY6	ENDMS			NS21000	34
1356	0200 1151			RJM	CIS	CLEAR INTERLOCK STATUS	FDL3	2
1360	0100 1360		CPY	SUBR		ENTRY/EXIT	FDL	1739
1362	3065		CPY1	LDD	BS	DECREMENT BUFFER SIZE	FDL	1740
1363	1014			SHN	14		FDL	1741
1364	3366			LMD	BS+1		FDL	1742
1365	3201			SBD	T1		FDL	1743
1366	0760			MJN	CPY5	IF BUFFER TOO SMALL	NS21000	35
1367	3466			STD	BS+1		FDL	1744
1370	1063			SHN	-14		FDL	1746
1371	3465			STD	BS		FDL	1747
1372	3003			LDD	T3	SET PP BUFFER ADDRESS	FDL	1748
1373	5400 1404			STM	CPYA		FDL	1749
1375	3045			LDCA	FW	WRITE BUFFER TO CM	FDL	1750
1403	6301 0000			CWM	** , T1		FDL	1751
		1404	CPYA	EQU	*-1		FDL	1752
1405	3001			LDD	T1	UPDATE FWA	FDL	1753
1406	3546			RAD	FW+1		FDL	1754
1407	1063			SHN	-14		FDL	1755
1410	3545			RAD	FW		FDL	1756
1411	3017			LDD	ER		FDL	1757
1412	0503			NJN	CPY3	IF EOR NOT READ	FDL	1758
1413	0100 1354		CPY2	LJM	CPY6	EXIT	NS21000	36
							FDL	1759
1415	2000 6776		CPY3	LDC	BFMS	READ NEXT SECTOR	FDL	1761
		1416	CPYC	EQU	*-1		NS21000	37
			*	LJM	CPY4	(DIRECT TRANSFER COPY)	NS21000	38
1417	0200 1233			RJM	RNS		FDL	1762
1421	1071			SHN	-6	SAVE EOR FLAG	FDL	1763
1422	3417			STD	ER		FDL	1764
1423	1401			LDN	IMLL	INCREMENT PRU COUNT	FDL	1765
1424	5500 1147			RAM	DPPA+4		FDL	1766
1426	1063			SHN	-14		FDL	1767
1427	5500 1146			RAM	DPPA+3		FDL	1768
1431	3001			LDD	T1		FDL	1769
1432	0460			ZJN	CPY2	IF EMPTY PRU	FDL	1770
1433	1402			LDN	2	ADJUST FWA TO SKIP HEADER	FDL	1771
1434	3503			RAD	T3		FDL	1772
1435	0100 1362			LJM	CPY1	LOOP	FDL	1773
							FDL	1774
			**			ERR - SET ERROR AND EXIT.	FDL	1776
			*				FDL	1777
			*	ENTRY	(A) = ERROR CODE.		FDL	1778
			*		(DPPA+3 - DPPA+4) = MASS STORAGE INCREMENT.		FDL	1779
			*				FDL	1780
			*	EXIT	TO *2LD* IF FATAL ERROR.		FDL	1781
			*		TO *CFN* IF NON-FATAL ERROR.		FDL	1782
			*		(BITS 11-13 OF FN+4) = STATUS.		FDL	1783
			*				FDL	1784
			*	USES	EC, SI, SI+1.		FDL5	13
			*				FDL5	14
			*	CALLS	CFN, CIS.		FDL3	3
							FDL	1786

1437	0100	1437	ERR	SUBR			FDL	1787
1441	3447			STD	EC	SAVE ERROR CODE	FDL	1788
1442	0200	1151		RJM	CIS	CLEAR INTERLOCK STATUS	FDL5	15
1444	3047		ERR1	LDD	EC	CHECK ERROR TYPE	FDL3	4
1445	1740			SBN	/ERR/FERT		FDL	1795
1446	0713			MJN	ERR2	IF NON-FATAL ERROR	FDL5	16
1447	5000	1146		LDM	DPPA+3	SET ACCOUNTING INCREMENT	FDL	1797
1451	3461			STD	SI		FDL	1798
1452	5000	1147		LDM	DPPA+4		FDL	1799
1454	3462			STD	SI+1		FDL	1800
1455	2035	1404		EXECUTE	2LD	PROCESS ERROR	FDL	1801
1461	3047		ERR2	LDD	EC	SET STATUS FIELD	FDL	1802
1462	1011			SHN	11		FDL5	17
1463	3544			RAD	FN+4		FDL	1806
1464	0100	1106		LJM	CFN	EXIT	FDL	1807
							FDL	1808
			**		RFS - READ FIRST SECTOR.		FDL	1839
			*				FDL	1840
			*	ENTRY	(T4) = CHANNEL.		FDL	1841
			*		(T5) = EST ORDINAL.		NS22000	5
			*		(T6) = TRACK.		FDL	1843
			*		(T7) = SECTOR.		FDL	1844
			*		(GN - GN+3) = OVERLAY/CAPSULE NAME.		FDL	1845
			*				FDL	1846
			*	EXIT	TO *ERR* IF ERROR DETECTED.		FDL	1847
			*		(T1) = VALID WORD COUNT.		FDL	1848
			*		(T3) = ADDRESS OF WORDS IN PP BUFFER.		FDL	1849
			*		(T6) = CURRENT TRACK.		FDL	1850
			*		(T7) = NEXT SECTOR.		FDL	1851
			*		(ER) = 0 IF EOR.		FDL	1852
			*				FDL	1853
			*	USES	T2, CM - CM+4, GN - GN+4.		FDL	1854
			*				FDL	1855
			*	CALLS	CPN, RNS.		FDL	1856
			*				FDL	1857
			*	MACROS	ENDMS, ERROR.		FDL	1858
							FDL	1859
1466	0100	1466	RFS	SUBR		ENTRY/EXIT	FDL	1860
1470	1401			LDN	IMLL	INCREMENT PRU COUNT	FDL	1861
1471	5500	1147		RAM	DPPA+4		FDL	1862
1473	2000	6776		LDC	BFMS	READ FIRST SECTOR	FDL	1863
1475	0200	1233		RJM	RNS		FDL	1864
1477	1071			SHN	-6	SAVE EOR FLAG	FDL	1865
1500	3417			STD	ER		FDL	1866
1501	1402			LDN	2	ADJUST BUFFER POINTER TO SKIP HEADER	FDL	1867
1502	3503			RAD	T3		FDL	1868
1503	4003			LDI	T3	CHECK FIRST WORD	FDL	1869
1504	2300	7700		LMC	7700		FDL	1870
1506	0535			NJN	RFS1	IF NOT 7700 TABLE (ERROR)	FDL	1871
1507	3003			LDD	T3	COMPARE CAPSULE/OVERLAY NAME TO EXPECTED	FDL	1872
							FDL	1873



1510	1605		ADN	5		FDL	1874
1511	0200 1264		RJM	CPN		FDL	1875
1513	0530		NJN	RFS1	IF NOT SAME NAME	FDL	1876
1514	5003 0001		LDM	1,T3	SKIP 7700 TABLE	FDL	1877
1516	1601		ADN	1	ENSURE 7700 HEADER IN SECTOR	FDL	1878
1517	3402		STD	T2		FDL	1879
1520	1002		SHN	2		FDL	1880
1521	3102		ADD	T2		FDL	1881
1522	3503		RAD	T3		FDL	1882
1523	3001		LDD	T1	ADJUST WORD COUNT	FDL	1883
1524	3202		SBD	T2		FDL	1884
1525	0716		MJN	RFS1	IF WORD COUNT IN 77 TABLE .GT. SECTOR SIZE	FDL	1885
1526	3401		STD	T1		FDL	1886
1527	3044		LDD	FN+4		FDL	1887
1530	0420		ZJN	RFS2	IF LOADING A CAPSULE	FDL	1888
1531	4003		LDI	T3		FDL	1889
1532	1071		SHN	-6		FDL	1890
1533	1750		SBN	50		FDL	1891
1534	0707		MJN	RFS1	IF .LT. 50XX TABLE	FDL	1892
1535	1702		SBN	52-50		FDL	1893
1536	0405		ZJN	RFS1	IF 52XX TABLE	FDL	1894
1537	1703		SBN	54-52+1		FDL	1895
1540	0603		PJN	RFS1	IF .GT. 54XX TABLE	FDL	1896
1541	0100 1466		LJM	RFSX	VALID OVERLAY FORMAT, EXIT	FDL	1897
						FDL	1898
1543	0200 0535	RFS1	ENDMS			FDL	1899
1545	1405		ERROR	WPR	WRONG PROGRAM	FDL	1900
						FDL	1901
1550	4003	RFS2	LDI	T3	CHECK HEADER	FDL	1902
1551	2300 6000		LMC	6000		FDL	1903
1553	0567		NJN	RFS1	IF NOT CAPSULE	FDL	1904
1554	3053		LDCA	IR+3	READ GROUP NAME	FDL	1905
1562	1601		ADN	1		FDL	1906
1563	6030		CRD	GN		FDL	1907
1564	3003		LDD	T3		FDL	1908
1565	1605		ADN	5		FDL	1909
1566	0200 1264		RJM	CPN	COMPARE WITH ACTUAL READ	FDL	1910
1570	0552		NJN	RFS1	IF NOT SAME NAME	FDL	1911
1571	0100 1466		LJM	RFSX	RETURN	FDL	1912
		**	COMMON DECKS.			FDL	1914
						FDL	1915
						FDL	1916
1573			CTEXT	COMPDDT - DIRECT DISK TRANSFER.		COMPDDT	1
			LIST	G		COMPDDT	149
1753	0002		VFD	10/0,2/REC.CP		*ECHO*	.1
1754	0002		VFD	10/0,2/REC.CS		*ECHO*	.1
1755	0002		VFD	10/0,2/REC.RA		*ECHO*	.1
1756	0002		VFD	10/0,2/REC.FT		*ECHO*	.1
1757	0002		VFD	10/0,2/REC.CF		*ECHO*	.1
1760	0002		VFD	10/0,2/REC.ID		*ECHO*	.1
1761	0000		VFD	10/0,2/REC.DF		*ECHO*	.1
1762	0000		VFD	10/0,2/REC.ME		*ECHO*	.1
1763	0000		VFD	10/0,2/REC.AD		*ECHO*	.1

1764	0001	VFD	10/0,2/REC.ST	*ECHO*	.1
1765	0000	VFD	10/0,2/REC.SK	*ECHO*	.1
1766	0000	VFD	10/0,2/REC.IW	*ECHO*	.1
1767	0001	VFD	10/0,2/REC.LN	*ECHO*	.1
1770	0001	VFD	10/0,2/REC.NR	*ECHO*	.1
1771	0001	VFD	10/0,2/REC.RS	*ECHO*	.1
1772	0001	VFD	10/0,2/REC.CR	*ECHO*	.1
1773	0001	VFD	10/0,2/REC.RD	*ECHO*	.1
1774	0001	VFD	10/0,2/REC.SA	*ECHO*	.1
		LIST	*	COMPDDT	153

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**      PRS - PRESET.                                FDL      1920
*
*      ENTRY  (IR - IR+4) = LDQ  CALL.                FDL      1921
*
*      EXIT   TO *ERR* IF ERROR DETECTED.            FDL      1922
*      (FA) = 0 IF SYSTEM FILE.                      FDL      1923
*      (FA) = FNT ADDRESS IF LOCAL FILE.             FDL      1924
*      (FS - FS+4) = FST ENTRY IF LOCAL FILE.       FDL      1925
*      (FN - FN+3) = FILE NAME.                     FDL      1926
*      (FN+4) = FUNCTION CODE.                       FDL      1927
*      (FW - FW+1) = FWA OF BUFFER.                  FDL      1928
*      (BL - BL+1) = BUFFER LENGTH.                  FDL      1929
*      (GN - GN+3) = OVERLAY/CAPSULE NAME.           FDL      1930
*      (T4) = CHANNEL.                               FDL      1931
*      (T5) = EST ORDINAL.                           FDL      1932
*      (T6) = TRACK.                                  FDL      1933
*      (T7) = SECTOR.                                FDL      1934
*      CHANNEL RESERVED AND DISK POSITIONED.          FDL      1935
*      ERROR PROCESSING OPTION SET.                  FDL      1936
*
*      USES   CM - CM+4, GN - GN+4.                  FDL      1937
*
*      CALLS  ALF, ASF, CRA, IRA, SMS, POS.          FDL      1938

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Address	Code	Subr	Param	Description	FDL
1775	0100	1775	PRS	ENTRY/EXIT	1944
1777	1400		LDN 0		1945
2000	3457		STD FA		1946
2001	3053		LDD IR+3	CHECK PARAMETER BLOCK ADDRESS	1947
2002	1237		LPN 37		1948
2003	3453		STD IR+3		1949
2004	1014		SHN 14		1950
2005	3354		LMD IR+4		1951
2006	1702		SBN 2		1952
2007	0705		MJN PRS1	IF ILLEGAL ADDRESS	1953
2010	1605		ADN 3+2		1954
2011	1071		SHN -6		1955
2012	3256		SBD FL		1956
2013	0704		MJN PRS2	IF LEGAL ADDRESS	1957
2014	1440		PRS1 ERROR ARG	* ARGUMENT ERROR.*	1958
2017	3053		PRS2 LDCA IR+3	READ FILE NAME AND FUNCTION CODE	1959
2025	6040		CRD FN		1960
2026	1602		ADN 2	READ FWA OF BUFFER	1961
2027	6010		CRD CM		1962
2030	1601		ADN 1	READ RANDOM INDEX AND LWA	1963
2031	6030		CRD GN		1964
2032	3043		LDD FN+3	CLEAR STATUS FIELD	1965
2033	1377		SCN 77		1966
2034	3443		STD FN+3		1967
2035	3044		LDD FN+4		1968
2036	2200	0776	LPC 776		1969
2040	3444		STD FN+4		1970
2041	1076		SHN -1		1971
2042	1702		SBN 2		1972
2043	0704		MJN PRS3	IF LEGAL FUNCTION CODE	1973
2044	1401		ERROR ILF	ILLEGAL FUNCTION	1974

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	2047	3013	PRS3	LDD	CM+3	SET FWA OF BUFFER	FDL	1977
	2050	1237		LPN	37		FDL	1978
	2051	3445		STD	FW		FDL	1979
	2052	1014		SHN	14		FDL	1980
	2053	3314		LMD	CM+4		FDL	1981
	2054	3446		STD	FW+1		FDL	1982
	2055	1702		SBN	2		FDL	1983
	2056	0711		MJN	PRS4	IF ILLEGAL ADDRESS	FDL	1984
	2057	3033		LDD	GN+3	CHECK LWA+1 OF BUFFER	FDL	1985
	2060	1237		LPN	37		FDL	1986
	2061	1014		SHN	14		FDL	1987
	2062	3334		LMD	GN+4		FDL	1988
	2063	1701		SBN	1		FDL	1989
	2064	1071		SHN	-6		FDL	1990
	2065	3256		SBD	FL		FDL	1991
	2066	0704		MJN	PRS5	IF LEGAL ADDRESS	FDL	1992
	2067	1402	PRS4	ERROR	IAD	ILLEGAL ADDRESS	FDL	1993
							FDL	1994
							FDL	1995
	2072	3033	PRS5	LDD	GN+3	SET BUFFER LENGTH	FDL	1996
	2073	1237		LPN	37		FDL	1997
	2074	1014		SHN	14		FDL	1998
	2075	3334		LMD	GN+4		FDL	1999
	2076	3246		SBD	FW+1		FDL	2000
	2077	3466		STD	BS+1		FDL	2001
	2100	1063		SHN	-14		FDL	2002
	2101	3245		SBD	FW		FDL	2003
	2102	3465		STD	BS		FDL	2004
	2103	1014		SHN	14		FDL	2005
	2104	3366		LMD	BS+1		FDL	2006
	2105	0761		MJN	PRS4	IF FWA .GT. LWA+1	FDL	2007
	2106	0460		ZJN	PRS4	IF FWA .EQ. LWA+1	FDL	2008
	2107	3033		LDD	GN+3	SET RANDOM INDEX	FDL	2009
	2110	1377		SCN	77		FDL	2010
	2111	1006		SHN	6		FDL	2011
	2112	3332		LMD	GN+2		FDL	2012
	2113	1006		SHN	6		FDL	2013
	2114	0433		ZJN	PRS8	IF ILLEGAL RANDOM ADDRESS	FDL	2014
	2115	3464		STD	RI+1		FDL	2015
	2116	1063		SHN	-14		FDL	2016
	2117	1277		LPN	77		FDL	2017
	2120	3463		STD	RI		FDL	2018
	2121	3053		LDCA	IR+3	READ OVERLAY/CAPSULE NAME	FDL	2019
	2127	1602		ADN	2		FDL	2020
	2130	6030		CRD	GN		FDL	2021
							FDL	2022
			*		ACCESS FILE.		FDL	2023
							FDL	2024
	2131	3040		LDD	FN	CHECK FILE TYPE	FDL	2025
	2132	2300 7777		LMC	7777		FDL	2026
	2134	0404		ZJN	PRS6	IF SYSTEM FILE	FDL	2027
	2135	0200 2213		RJM	ALF	ACCESS LOCAL FILE	FDL	2028
	2137	0303		UJN	PRS7		FDL	2029
							FDL	2030
	2140	0200 2303	PRS6	RJM	ASF	ACCESS SYSTEM FILE	FDL	2031
	2142	0200 2527	PRS7	RJM	IRA	INITIALIZE RANDOM ACCESS	FDL	2032
	2144	0200 2321		RJM	CRA	CONVERT RANDOM ADDRESS	FDL	2033

2146	0604		PJN	PRS9	IF LEGAL RANDOM ADDRESS	FDL	2034
2147	1404		ERROR	IRA	ILLEGAL RANDOM ADDRESS	FDL	2035
			PRS8			FDL	2036
			*		RESERVE CHANNEL.	FDL	2037
						FDL	2038
2152	3057		PRS9	LDD	FA	FDL	2039
2153	0505		NJN	PRS10	IF NOT SYSTEM FILE	FDL	2040
2154	1403		SETMS	READSYS	ALLOW SYSTEM SELECTION OF EQUIPMENT	FDL	2041
2157	0304		UJN	PRS11	CHECK IF DIRECT TRANSFER SUPPORTED	NS21000	40
						NS21000	41
			*		PRESET FOR DIRECT TRANSFER IF AVAILABLE.	NS21000	42
						FDL	2043
2160	1400		PRS10	SETMS	I0	242L642	105
2163	3014		PRS11	LDD	CM+4	242L642	106
2164	1003			SHN	3	NS21000	47
2165	1613			ADN	DILL	NS21000	48
2166	6010			CRD	CM	NS21000	49
2167	3013			LDD	CM+3	NS21000	50
2170	1006			SHN	21-13	NS21000	51
2171	0611		PJN	PRS12	IF DIRECT TRANSFER NOT AVAILABLE	NS21000	52
2172	2000 1306		LDC	CPY4	PRESET *CPY* FOR DIRECT TRANSFER	NS21000	53
2174	5400 1416		STM	CPYC		NS21000	54
2176	2000 0100		LDC	LJMI		NS21000	55
2200	5400 1415		STM	CPYC-1		NS21000	56
2202	0100 1775		PRS12	LJM	PRXS	NS21000	57
			**		ALF - ACCESS LOCAL FILE.	FDL	2047
			*			FDL	2048
			*		ENTRY (FN - FN+3) = FILE NAME.	FDL	2049
			*			FDL	2050
			*		EXIT TO *ERR* IF ERROR.	FDL	2051
			*		(T5) = EST ORDINAL.	NS22000	9
			*		(T6) = FIRST TRACK.	FDL	2053
			*		(FA) = FNT ADDRESS.	FDL	2054
			*		(FS - FS+4) = FST ENTRY.	FDL	2055
			*		TRACK INTERLOCK SET IF NEEDED.	FDL	2056
			*			FDL	2057
			*		USES CM - CM+4, FN - FN+4, RI - RI+4, T0 - T6.	FDL	2058
			*			FDL	2059
			*		CALLS ERR, SAF, SFB, STI.	FDL	2060
			*			FDL	2061
			*		MACROS ERROR, NFA, SFA.	NS22000	10
						FDL	2063
						FDL	2064
2204	0200 2446		ALF6	RJM	SFB	FDL	2065
2206	0420		ZJN	ALF2	IF FILE SET BUSY	FDL	2066
2207	1441		ERROR	I0S	I/O SEQUENCE ERROR	FDL	2067
						FDL	2068
2212	0100 2212		ALF	SUBR	ENTRY/EXIT	FDL	2069
2214	3040			LDD	FN	FDL	2070
2215	2200 3777			LPC	3777	FDL	2071
2217	3440			STD	FN	FDL	2072
2220	0200 2371		RJM	SAF	SEARCH FOR ASSIGNED FILE	FDL	2073
2222	0561		NJN	ALF6	IF FILE FOUND	FDL	2074

2223	1403		ALF1	ERROR	FNF	FILE NOT FOUND	FDL	2075
2226	3013		ALF2	LDD	CM+3	CHECK FILE STATUS	FDL	2076
2227	1204			LPN	4		FDL	2077
2230	0410			ZJN	ALF3	IF NOT EXECUTE ONLY	FDL	2078
2231	3074			LDD	CP	CHECK VALID ACCESS	FDL	2079
2232	2100	0115		ADC	EOCW		FDL	2080
2234	6001			CRD	T1		FDL	2081
2235	3001			LDD	T1		FDL	2082
2236	3357			LMD	FA		FDL	2083
2237	0563			NJN	ALF1	IF NOT VALID ACCESS	FDL	2084
2240	3055		ALF3	NFA	FA,R	RESET FST INFORMATION	FDL	2085
2243	1601			ADN	FSTL		FDL	2086
2244	6020			CRD	FS		FDL	2087
2245	3022			LDD	FS+2		FDL	2088
2246	0454			ZJN	ALF1	IF EMPTY FILE	FDL	2089
2247	3020			LDD	FS	SET EST ORDINAL	NS22000	2090
2250	3405			STD	T5		FDL	11
2251	0200	0245		SFA	EST	READ EST ENTRY	NS22000	2092
				ADK	EQDE		NS22000	12
2253	6000			CRD	T0		FDL	13
2254	3000			LDD	T0	CHECK EQUIPMENT TYPE	FDL	2094
2255	1006			SHN	21-13		FDL	2095
2256	0644			PJN	ALF1	IF NOT ON MASS STORAGE	FDL	2096
2257	3021			LDD	FS+1	SET FIRST TRACK	FDL	2097
2260	3406			STD	T6		FDL	2098
2261	3014			LDD	CM+4	CHECK FOR TRACK INTERLOCK NEEDED	FDL	2099
2262	1071			SHN	-6		FDL	2100
2263	1112			LMN	PMFT		FDL	2101
2264	0514			NJN	ALF5	IF NOT PERMANENT FILE	FDL	2102
2265	3013			LDD	CM+3		FDL	2103
2266	1220			LPN	20		NS2241	2104
2267	0411			ZJN	ALF5	IF NOT M, A, RM, OR RA MODE	FDL	2
2270	0200	2466		RJM	STI	SET TRACK INTERLOCK	FDL	2106
2272	0403			ZJN	ALF4	IF INTERLOCK SET AND ERROR FLAG NOT SET	FDL	2107
2273	0100	1116		LJM	DPP		FDL	2108
							FDL	2109
2275	3006		ALF4	LDD	T6	SET TRACK INTERLOCKED STATUS	242L642	2110
2276	5400	1153		STM	CISA		242L642	107
2300	0100	2212	ALF5	LJM	ALFX		FDL	108
							FDL	2113
			**			ASF - ACCESS SYSTEM FILE.	FDL	2115
			*				FDL	2116
			*	EXIT	(T5) = EST ORDINAL.		NS22000	14
			*		(T6) = FIRST TRACK.		FDL	2118
			*				FDL	2119
			*	USES	CM - CM+4.		FDL	2120
							FDL	2121
							FDL	2122
2302	0100	2302	ASF	SUBR		ENTRY/EXIT	FDL	2123
2304	1473			LDN	FNTP	READ FNT POINTER	FDL	2124
2305	6010			CRD	CM		FDL	2125
2306	3010			LDD	CM	READ SYSTEM FILE FST	FDL	2126
2307	1014			SHN	14		FDL	2127



2310	3311		LMD	CM+1		FDL	2128
		0	ERRNZ	SYFO	SYSTEM FILE ORDINAL .NE. 0	FDL	2129
2311	1601		ADN	FSTG		FDL	2130
2312	6010		CRD	CM		FDL	2131
2313	3011		LDD	CM+1	SET FIRST TRACK	FDL	2132
2314	3406		STD	T6		FDL	2133
2315	3010		LDD	CM	SET SYSTEM EQUIPMENT	FDL	2134
2316	3405		STD	T5		FDL	2135
2317	0362		UJN	ASFX		FDL	2136

\*\* COMMON DECKS.

						FDL	2138
						FDL	2139
						FDL	2140
2320			CTEXT	COMPCRA	- CONVERT RANDOM ADDRESS.	COMPCRA	1
2366			CTEXT	COMPSAF	- SEARCH FOR ASSIGNED FILE.	COMPSAF	1
2436			CTEXT	COMPSFB	- SET FILE BUSY.	COMPSFB	1
2464			CTEXT	COMPSTI	- SET TRACK INTERLOCK.	COMPSTI	1
						FDL	2145
2526			CTEXT	COMPIRA	- INITIALIZE RANDOM ACCESS PROCESSORS.	COMPIRA	1

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IDENT 2LD,PPFW  
 QUAL 2LD  
 COMMENT 82/02/26. 92/09/17. FDL - ERROR PROCESSOR.  
 COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.

FDL 2149  
 FDL 2150  
 FDL 2151  
 281L803 3

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\*\* ERP - ERROR PROCESSOR. FDL 2154  
 \* ENTRY (EC) = ERROR CODE. FDL 2155  
 \* (FA) = FNT ADDRESS IF LOCAL FILE. FDL5 18  
 \* (FA) = 0 IF SYSTEM FILE. FDL 2157  
 \* (SI - SI+1) = MASS STORAGE ACCOUNTING INCREMENT. FDL 2158  
 \* (FN - FN+3) = FILE NAME. FDL 2159  
 \* (IR - IR+1) = PP NAME. FDL 2160  
 \* (IR+3 - IR+4) = PARAMETER BLOCK ADDRESS. FDL 2161  
 \* FDL 2162  
 \* FDL 2163  
 \* EXIT LOCAL FILE SET COMPLETE. FDL 2164  
 \* MESSAGE ISSUED. FDL 2165  
 \* ACCOUNTING UPDATED. FDL 2166  
 \* PPU DROPPED. FDL 2167  
 \* FDL 2168  
 \* USES T1, CM - CM+4. FDL 2169  
 \* FDL 2170  
 \* CALLS ACS, ANS, DFM. FDL 2171  
 \* FDL 2172  
 \* MACROS MONITOR, NFA, PAUSE. FDL 2173

1100			ORG	PPFW		FDL	2176
1100	0100	1100	ERP	SUBR		FDL	2177
1102	2000	1453	LDC	BUF	SET ADDRESS FOR PROCESSOR NAME	FDL	2178
1104	3401		STD	T1		FDL	2179
1105	1455		LDN	1R	ADD SPACE CHARACTER	FDL	2180
1106	1014		SHN	14		FDL	2181
1107	3150		ADD	IR	SET FIRST CHARACTER	FDL	2182
1110	1014		SHN	14		FDL	2183
1111	4401		STI	T1		FDL	2184
1112	4301		LMI	T1	SET LAST CHARACTERS	FDL	2185
1113	3151		ADD	IR+1		FDL	2186
1114	1014		SHN	14		FDL	2187
1115	5400	1454	STM	BUF+1		FDL	2188
1117	1402		LDN	2	SET ASSEMBLY ADDRESS	FDL	2189
1120	3501		RAD	T1		FDL	2190
1121	1400		LDN	0	SET BYTE BOUNDARY	FDL	2191
1122	4401		STI	T1		FDL	2192
1123	2000	1410	LDC	=Z* - *	ADD * - *	FDL	2193
1125	0200	1300	RJM	ACS		FDL	2194
1127	3047		LDD	EC	ADD MESSAGE	FDL5	19
1130	1740		SBN	/ERR/FERT		FDL	2196
1131	3402		STD	T2		FDL	2197
1132	5002	1261	LDM	TMSG,T2		FDL	2198
1134	0200	1300	RJM	ACS		FDL	2199
1136	2000	1410	LDC	=Z* - *	ADD * - *	FDL	2200
1140	0200	1300	RJM	ACS		FDL	2201
1142	3047		LDD	EC	CHECK ERROR TYPE	FDL5	20

1143	1140		LMN	/ERR/ARG		FDL	2203		
1144	0420		ZJN	ERP3	IF * ARGUMENT ERROR.*	FDL	2204		
1145	3057		LDD	FA		FDL	2205		
1146	0504		NJN	ERP1	IF LOCAL FILE	FDL	2206		
1147	2000	1412	LDC	=Z*SYSTEM*		FDL	2207		
1151	0305		UJN	ERP2		FDL	2208		
						FDL	2209		
1152	3043		ERP1	LDD	FN+3	TERMINATE FILE NAME	FDL	2210	
1153	1377		SCN	77			FDL	2211	
1154	3443		STD	FN+3			FDL	2212	
1155	1440		LDN	FN	ADD FILE NAME		FDL	2213	
1156	0200	1300	ERP2	RJM	ACS		FDL	2214	
1160	2000	1416	LDC	=Z* AT *	ADD * AT *		FDL	2215	
1162	0200	1300	RJM	ACS			FDL	2216	
1164	3053		ERP3	LDD	IR+3	ADD ADDRESS		FDL	2217
1165	1014		SHN	14			FDL	2218	
1166	3354		LMD	IR+4			FDL	2219	
1167	0200	1323	RJM	ANS			FDL	2220	
1171	2000	1421	LDC	=Z*. *	ADD PERIOD		FDL	2221	
1173	0200	1300	RJM	ACS			FDL	2222	
1175	2000	1453	LDC	BUF	ISSUE DAYFILE MESSAGE		FDL	2223	
1177	0200	0423	RJM	DFM			FDL	2224	
1201	1400		PAUSE		CHECK ERROR FLAG		FDL	2225	
1207	3011		LDD	CM+1			FDL	2226	
1210	0506		NJN	ERP4	IF ERROR FLAG SET		FDL	2227	
1211	1406		LDN	PPET	SET ERROR FLAG		FDL	2228	
1212	3411		STD	CM+1			FDL	2229	
1213	1454		MONITOR	CEFM			FDL	2230	
1216	3624		ERP4	AOD	FS+4	SET FST ENTRY COMPLETE		FDL	2231
1217	3047		LDD	EC	CHECK ERROR TYPE		FDL5	21	
1220	1141		LMN	/ERR/IOS			FDL	2233	
1221	0410		ZJN	ERP5	IF I/O SEQUENCE ERROR		FDL	2234	
1222	3057		LDD	FA			FDL	2235	
1223	0406		ZJN	ERP5	IF NO FST ADDRESS		FDL	2236	
1224	3055		NFA	FA,R			FDL	2237	
1227	1601		ADN	FSTL			FDL	2238	
1230	6220		CWD	FS			FDL	2239	
							FDL	2240	
1231	3061		ERP5	LDD	SI	SET ACCOUNTING INCREMENT		FDL	2241
1232	5400	1257	STM	ERPC			FDL	2242	
1234	3062		LDD	SI+1			FDL	2243	
1235	5400	1260	STM	ERPC+1			FDL	2244	
1237	3077		LDD	MA	SET REQUEST IN MESSAGE BUFFER		FDL	2245	
1240	6370	1254	CWM	ERPB,ON			FDL	2246	
1242	1401		LDN	1	SET WORD COUNT		FDL	2247	
1243	3411		STD	CM+1			FDL	2248	
1244	1400		LDN	0	SET DROP PPU		FDL	2249	
1245	3412		STD	CM+2			FDL	2250	
1246	2000	0114	MONITOR	UADM			FDL	2251	
1252	0100	0257	LJM	PPR			FDL	2252	
							FDL	2253	
1254	0020		ERPB	CON	AISS	SUB FUNCTION		FDL	2254
1255	0053		CON	IOAW	WORD TO UPDATE		FDL	2255	
1256	5024		CON	40D*100+20D	FIELD TO UPDATE		FDL	2256	
1257	0000	0000	ERPC	CON	0,0	INCREMENT		FDL	2257

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1261			TMSG	BSS	0					FDL	2259
L 40				QUAL	ERR					FDL	2260
L 40	1422		ARG	LOC	FERT					FDL	2261
L 41	1432		MSG	MSG	(ARGUMENT ERROR)					FDL	2262
L 42	1444		IOS	MSG	(I/O SEQUENCE ERROR)					FDL	2263
1264			MSR	MSG	(DEVICE ERROR)					FDL	2264
				LOC	*0					FDL	2265
				QUAL	*					FDL	2266
** COMMON DECKS.											
1264			CTEXT	COMPACS	- ASSEMBLE CHARACTER STRING.					FDL	2268
1322			CTEXT	COMPANS	- ASSEMBLE NUMERIC STRING.					FDL	2269
										FDL	2270
1453			BUF	USE	BSS	0	ASSEMBLY BUFFER			FDL	2274
										FDL	2275
1453			END							FDL	2278
77100B CM STORAGE USED 15082 STATEMENTS 4128 SYMBOLS 001099 INVENTED SYMBOLS											
PARALLEL CPU ASSEMBLY 6.027 SECONDS 1405 REFERENCES											
SYMBOLIC REFERENCE TABLE.											
AB	30		5/22 D	28/33							
AISS	20		22/39	40/45	53/52						
BFMS	6776	NOSTEXT	24/28	33/35	43/26	44/48					
BL	60		5/30 D	19/05	20/13	25/03 S	25/17 S	32/01	32/37		
BS	65		5/33 D	42/30	43/07	43/12 S	48/28 S				
			42/27	43/05	43/10 S	48/25 S	48/30				
CC	25		5/18 D	19/45 S	20/08 S	20/28 S					
CEFM	54	NOSTEXT	53/28								
CL	27		5/20 D	26/36	26/48	26/57 S	30/41	34/26 S	36/12 S	36/16 S	
CM	10	NOSTEXT	11/19 S	16/20 S	21/52 S	29/36	35/20	36/44 S	48/06	51/04 S	
			11/20	16/22	21/54 S	29/38	35/23	36/46 S	49/14	51/05	
			14/11 S	16/24	22/01	29/39 S	35/26	36/48	49/17 S	51/07	
			14/12	16/33 S	22/25 S	29/43	35/30	40/38 S	49/18	53/23 S	
			14/14	16/35 S	22/35 S	30/12	35/41	40/40 S	50/03	53/24	
			15/37	17/04 S	25/29 S	30/15	35/44	42/32 S	50/27	53/27 S	
			15/46	17/05	25/30	30/18	36/18 S	42/36 S	50/31	53/46 S	
			15/50	17/07	29/27 S	30/29 S	36/19	42/38 S	50/55 S	53/48 S	
			16/02 S	21/29 S	29/28	30/30	36/21	47/45 S	50/56		
			16/03	21/32	29/33 S	34/50 S	36/33	48/02	51/01		
CP	74	NOSTEXT	11/12	11/19	14/21	15/40	25/29	50/06	53/23		

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DA	65		5/34 D	27/34	27/41	30/27	35/31 S			
				27/34	27/41	30/27	35/28 S			
DFM	423	NOSTEXT		53/22						
DI	37		5/24 D	17/43	26/29 S	27/42	29/34	36/11 S		
				16/53	21/36	27/35	29/31	34/24 S		
DILL	13	NOSTEXT		49/16						
DL	67		5/35 D	26/45	35/22 S	35/25 S	35/35	36/13	36/15	
EC	47		5/28 D	23/27	23/34	42/48	44/06	52/50	53/30	
				23/17 S	23/32	42/42 S	44/03 S	44/15	52/57	
EOCW	115	NOSTEXT		15/41	50/07					
EQDE	0	NOSTEXT		16/01	50/20					
ER	17		5/16 D	19/09	20/31	25/20 S	43/22	43/31 S	44/51 S	
EXR	462	NOSTEXT		21/04	23/24	41/04	44/13			
FA	57		5/29 D	12/22	21/04	34/25 S	41/04	49/06	53/03	
				11/16 S	15/44	22/26	40/29	41/04	50/10	53/33
				12/20	21/04	22/29	40/32	47/28 S	50/12	53/35
FL	56	NOSTEXT		13/22	34/41	35/37	35/57	47/38	48/16	
FN	40		5/25 D	13/27 S	14/16 S	16/38	40/18 S	47/43 S	47/53 S	53/08
				11/17 S	13/31	14/25 S	16/41	40/20	47/48	48/49
				11/26	13/33 S	16/13 S	16/44	44/17 S	47/50 S	49/53
				11/40	13/35 S	16/30	17/39	45/14	47/51	49/55 S
FNTP	73	NOSTEXT		17/03	50/54					
FS	20		5/17 D	15/53	16/28	17/10 S	22/28 S	41/04 S	50/17	
				12/05	15/55	16/39	17/29	22/31	41/04	50/25
				12/19 S	16/06	16/42	21/04 S	40/31 S	50/14 S	53/29 S
				12/24	16/25 S	16/45	21/04	40/34	50/15	53/37
FSMS	1	NOSTEXT		17/34						
FSTG	1	NOSTEXT		17/09	51/03					
FSTL	1	NOSTEXT		12/23	21/04	22/30	40/33	41/04	50/13	53/36
FTN	165	NOSTEXT		11/19	22/02	22/36	25/29	40/41	53/23	53/28
										53/49
FW	45		5/26 D	42/29	42/37	43/15	43/21 S	48/07 S	48/27	
				42/26	42/35	43/15	43/19 S	48/04 S	48/24	
GN	30		5/21 D	20/17	21/44 S	29/24 S	34/53 S	41/28	48/10	48/33
				18/36	20/20	21/46 S	29/41	34/54	41/31	48/13
				18/43	20/23	21/48	34/48 S	41/22	45/34 S	48/20
				20/04	21/41 S	29/22 S	34/51	41/25	47/47 S	48/23
GO	26		5/19 D	18/57	19/57 S	20/10 S				
IMLL	1			25/08	42/45	43/32	44/46			
IOAW	53	NOSTEXT		22/40	40/46	53/53				
IR	50	NOSTEXT		21/04 S	21/56	34/27	34/47	40/19	47/31 S	48/43
				21/35 S	29/25	34/31	36/10	41/04 S	47/33	52/37
				21/37 S	29/25	34/34 S	36/17	45/32	47/42	52/41
				21/47	29/40	34/36	36/17	45/32	47/42	53/15
				21/47	29/40	34/47	40/19	47/29	48/43	53/17
IRA\$	1		1/43 D							
LBDP	144	NOSTEXT		14/10	16/19					
LB1W	112	NOSTEXT		11/13						
LB2W	113	NOSTEXT		36/50						
LB3W	114	NOSTEXT		14/22						
LJMI	100			49/23						
MA	77	NOSTEXT		17/38	21/55	22/32	28/32	40/35	53/43	
MEPO	1		4/47 D							
MSD	110	NOSTEXT		21/04	41/04					
MSR\$	1		1/44 D							
ON	70	NOSTEXT		16/52	22/33	27/43	28/24	28/34	53/44	
				17/40	27/36	27/45	28/29	40/36		
PMFT	12	NOSTEXT		15/48	50/29					

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PPET	6	NOSTEXT	53/26								
PPFW	1100	NOSTEXT	11/06	40/06	52/01	52/31					
PPR	257	NOSTEXT	22/03	29/46	40/42	53/50					
PTLR	5		21/53								
QUAL\$	1		1/45	D							
RA	55	NOSTEXT	12/22	21/47	27/41	30/27	40/19	43/15	48/43		
			13/26	22/29	29/25	34/47	40/32	45/32	50/12		
			21/04	27/34	29/40	36/17	41/04	47/42	53/35		
RDCT	103		42/52								
RDDS	3		42/39								
RECM	72	NOSTEXT	22/02								
RI	63		5/32	D	17/12	17/32 S	19/48 S	48/39 S			
			16/27	S	17/14	17/35 S	19/52 S	48/42 S			
RSLM	1000		4/48	D	21/22						
SHNI	1000		36/36								
SI	61		5/31	D	23/21 S	23/23 S	44/10 S	44/12 S	53/39	53/41	
STSW	20	NOSTEXT	11/19		25/29	53/23					
SYFO	0	NOSTEXT	17/08		51/02						
TI	45		5/27	D	17/18 S	17/37 S	19/51	27/21	28/46 S		
			17/16	S	17/33 S	19/47	27/14	28/45 S			
TR	73	NOSTEXT	11/14								
T0	0	NOSTEXT	50/21	S	50/22						
T1	1	NOSTEXT	15/42	S	18/41 S	26/28	26/56	30/40 S	43/36	50/09	52/45 S
			15/43		18/46	26/41 S	30/25 S	43/08 S	45/10	52/34 S	52/47 I
			18/35	S	25/16	26/44 S	30/26 S	43/16	45/13 S	52/39 I	
			18/39		25/18	26/49	30/28	43/18	50/08 S	52/40	
T2	2	NOSTEXT	18/22		18/45	31/51 S	32/30 S	32/47	41/27	45/11	
			18/37	S	19/46	31/53 S	32/32 S	41/20 S	41/30	52/52 S	
			18/38		19/50	31/56 S	32/35 S	41/21	45/06 S	52/53	
			18/42	S	20/01	32/03	32/39	41/24	45/08		
T3	3	NOSTEXT	11/48	S	19/04 S	20/27	25/13	27/15	31/46	43/39 S	45/29
			12/12	S	20/03 S	24/15	25/24 I	27/22	31/49	44/53 S	45/35
			18/24	S	20/05	24/17	25/26	28/36 S	31/55	44/54	
			18/29		20/12 S	24/23 I	27/01	30/13	32/25	44/57	
			18/34		20/18	24/25	27/05	30/16	32/28	45/04	
			18/53		20/21	24/27 S	27/06	30/19	32/34	45/09 S	
			18/56		20/24	25/01 S	27/09	30/37	43/13	45/16	
T4	4	NOSTEXT	42/43								
T5	5	NOSTEXT	15/56	S	16/21 S	17/11 S	28/31 S	50/18 S			
			16/18	S	16/55	21/04	41/04	51/08 S			
T6	6	NOSTEXT	12/06	S	31/14	31/21	50/26 S	51/06 S			
			17/30	S	31/18 S	31/26 S	50/38				
T7	7	NOSTEXT	13/40	S	13/46	13/53 S	14/04	14/09 S	14/15		
UADM	114	NOSTEXT	22/36		40/41	53/49					
UL	35		5/23	D	13/19	13/26	13/30 S	35/46 S	35/51		
			13/17		13/26	13/28 S	35/43 S	35/49 S			
ZERL	66	NOSTEXT	16/51		21/51	28/23					
(1RJ)	0		21/04	D	41/04	D					
(2LD)	0		23/24	D	44/13	D					
.EMS	535	NOSTEXT	25/27		42/55	43/01	45/26				
.EST	245	NOSTEXT	15/57		50/19						
.SMS	475	NOSTEXT	17/24		17/51	49/08	49/13				

SYMBOL QUALIFIER = ERR

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ARG	40	4/42 D	34/43	47/40	53/01	54/04 L
FERT	40	4/40 D	23/18	44/07	52/51	54/03
FNF	3	4/32 D	50/01			
IAD	2	4/31 D	35/39	48/18		
IBF	6	4/36 D	42/56			
IDS	20	4/38 D	23/37	26/53		
ILA	3	4/33 D	13/24	36/02		
ILE	10	4/37 D	11/33	11/52	23/35	23/37
ILF	1	4/30 D	35/18	47/57		
IOS	41	4/43 D	15/35	49/50	53/31	54/05 L
IRA	4	4/34 D	49/02			
MSR	42	4/44 D	21/04	41/04	54/06 L	
WPR	5	4/35 D	45/27			

SYMBOL QUALIFIER = LDD

BUF	3423	11/45	12/11	20/36	28/34 S	28/39 S	28/43 S	28/50 S
		11/47	19/14	20/38	28/35	28/41 S	28/44 S	33/33 D
		12/09	19/16	28/29 S	28/37	28/42 S	28/48	33/35
CIS	2014	11/53	21/04 D	21/04	21/04	25/28		
CISA	2016	21/04 D	21/04 S	31/15 S				
CISX	2013	21/04 L	21/04	21/04				
CLD	3110	28/27						
CRA	3130	12/07	17/20	17/47				
CRP	2127	11/24	21/20 D					
CRPA	2141	14/29 S	21/30 L	36/42 S				
CRPX	2126	21/20 L	21/23					
CRS	3650	34/45						
CTI	2062	21/04						
DIRA	3411	16/52 S	17/02 S	17/42 S	26/33 S	27/29	28/24 S	33/26 D
		16/57 S	17/40 S	26/30	26/42	27/36	28/26 S	33/27
DIRB	3416	27/08 S	27/13 S	27/20 S	27/26 S	27/45	33/33	
		27/11 S	27/17 S	27/24 S	27/28 S	33/27 D		
DPP	2214	21/50	22/24 D	29/45				
DPPA	2240	22/33	22/39 L					
DPPB	2243	22/42 L	23/20	23/22	25/09 S	25/11 S		
DPPC	2245	21/21	22/43 L	25/12 S				
DPPX	2213	22/24 L	22/37					
DPP1	2226	22/27	22/32 L					
ERR	2247	11/33	13/24	21/04	26/53	35/18	36/02	
		11/52	15/35	23/16 D	34/43	35/39		
ERRA	2274	23/28 S	23/31 D					
ERRX	2246	23/16 L	23/36	23/38				
ERR1	2265	23/19	23/26 L					
GNL	1273	11/25	13/37 D					
GNLA	1275	13/39 D	13/57 S	36/32 S				
GNLB	1300	13/42 D	14/28 S	36/49 S				
GNLC	1303	13/47 L	14/01	14/03 S	21/38	36/37 S		
GNLD	1347	14/23 D	14/26 S	36/51 S				
GNLE	1362	13/54 S	14/32 L	21/27	36/30 S	36/38 S		
GNLX	1272	13/20	13/37 L					
GNL1	1306	13/45	13/51 L					
GNL2	1310	13/50	13/53 L					

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	PDE4	2557	27/30	27/41	L				
	PDE5	2566	27/37	27/43	L				
	PDE6	2423	26/28	26/54	L	27/46	27/50		
1	PGM	1615	12/15	18/21	D				
2	PGMA	1621	18/27	35/08	S				
3	PGMX	1614	18/21	18/51	L	19/11			
4	PGM1	1620	18/24	19/17	L				
5	PGM2	1621	18/25	19/07	L				
6	PGM3	1631	18/31	18/34	L				
7	PGM4	1635	18/38	18/44	L				
8	PGM5	1655	18/28	18/53	L				
9	PGM6	1667	18/32	18/40	L	18/48	18/55	19/01	19/03 L
10	PGM7	1675	19/06	19/09	L				
11	PGM8	1701	19/10	19/13	L				
12	PRS	3373	11/08	34/22	D				
13	PRSA	3551	34/30	36/07	D				
14	PRSB	3600	34/32	36/25	D	36/39			
15	PRSX	3372	34/22	36/04	L	36/52			
16	PRS1	3422	34/38	34/43	L	34/46			
17	PRS10	3562	36/14	36/17	L				
18	PRS11	3622	36/35	36/39	L				
19	PRS12	3645	36/41	36/52	L				
20	PRS2	3425	34/42	34/45	L				
21	PRS2.5	3466	35/01	35/15	L				
22	PRS3	3471	35/03	35/18	L				
23	PRS4	3474	34/56	35/11	L	35/16	35/20	L	
24	PRS5	3517	35/33	35/39	L				
25	PRS6	3522	35/38	35/41	L				
26	PRS7	3544	35/54	36/02	L				
27	PRS8	3547	36/04	36/09	L				
28	PRS9	3551	35/52	36/01	L	36/06	L		
29	RNS	2076	25/14						
30	SAF	3200	15/29						
31	SCP	2576	11/31	28/22	D				
32	SCPX	2575	28/22	28/28	L	28/52			
33	SCS	2655	11/22	23/39	L	25/32	29/18 L	31/29	
34	SCSA	2656	21/42	23/29	L	23/33 S	29/19 D	36/23 S	
35	SFB	3255	15/33						
36	SFE	2744	26/38	30/23	D				
37	SFEX	2743	30/23	30/44	L				
38	SFE1	2747	30/26	30/32	L				
39	SFE2	2750	30/27	30/42	L				
40	SFE3	2766	30/14	30/17	L	30/21	30/39	L	
41	SFE4	2726	30/12	30/38	L				
42	SFG	1714	11/56	19/44	D				
43	SFGA	1727	19/53	35/09	S				
44	SFGX	1713	19/44	19/55	L	20/09	20/29	20/33	
45	SFG1	1735	20/03	20/39	L				
46	SFG2	1736	20/04	20/15	L				
47	SFG3	1743	20/08	20/19	L	20/22	20/26		
48	SFG4	1753	20/07	20/17	L				
49	SFG5	1775	20/14	20/31	L				
50	SFG6	2001	20/32	20/35	L				
51	SIS	3003	12/04	17/46	L	19/13	20/35	31/20	D
52	SISA	3010	11/18	15/54	S	31/24	D		
53	SISB	3000	31/17	31/22	S				
54	SISX	3002	31/20	31/25	L				

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SIS1	2774	31/14	L	31/28					
STI	3275	31/27							
TLBD	3372	11/14	S	13/38	13/56	33/20	D	33/21	
TLBDL	3411	13/41		33/21	D	33/26		36/47	
VOT	3022	12/13		31/45	D				
VOTX	3021	31/45	L	32/06					
VOT1	3020	31/43	L	31/48		32/02		32/05	
VUT	3053	11/49		32/24	D				
VUTA	3101	32/42	L	35/10	S				
VUTX	3052	32/24	L	32/45		32/48			
VUT1	3104	32/44		32/47	L				
VUT2	3051	32/22	L	32/27		32/38		32/41	
.IO	0	17/51	D	17/51					
.READSYS	3	17/24	D	17/24					

SYMBOL QUALIFIER = MACRO\$

ENDMS	1543	25/27	D	42/55	D	43/01	D	45/26	D								
ERROR	2223	11/33	D	15/35	D	34/43	D	36/02	D	45/27	D	48/18	D	50/01	D		
		11/52	D	21/04	D	35/18	D	41/04	D	47/40	D	49/02	D				
		13/24	D	26/53	D	35/39	D	42/56	D	47/57	D	49/50	D				
EXECUTE	1455	21/04	D	23/24	D	41/04	D	44/13	D								
LDCA	2121	13/26	D	27/34	D	29/25	D	30/27	D	36/17	D	43/15	D	47/42	D		
		21/47	D	27/41	D	29/40	D	34/47	D	40/19	D	45/32	D	48/43	D		
MONITOR	1246	11/19	D	22/02	D	22/36	D	25/29	D	40/41	D	53/23	D	53/28	D	53/49	D
MSG	42	54/04	D	54/05	D	54/06	D										
NFA	1224	12/22	D	21/04	D	22/29	D	40/32	D	41/04	D	50/12	D	53/35	D		
PAUSE	1201	11/19	D	25/29	D	53/23	D										
SETMS	2160	17/24	D	17/51	D	49/08	D	49/13	D								
SFA	2530	15/57	D	50/19	D												

SYMBOL QUALIFIER = LDQ

ALF	2213	48/52		49/52	D												
ALFX	2212	49/52	L	50/40													
ALF1	2223	50/01	L	50/11		50/16		50/24									
ALF2	2226	49/49		50/03	L												
ALF3	2240	50/05		50/12	L												
ALF4	2275	50/35		50/38	L												
ALF5	2300	50/30		50/33		50/40	L										
ALF6	2204	49/48	L	49/57													
ASF	2303	48/55		50/53	D												
ASFX	2302	50/53	L	51/09													
CFN	1106	40/18	L	44/18													
CIS	1151	41/04	D	41/04		41/04		43/02		44/04							
CISA	1153	41/04	D	41/04	S	50/39	S										
CISX	1150	41/04	L	41/04		41/04											
CPN	1264	41/19	D	45/02		45/37											
CPNX	1263	41/19	L	41/23		41/26		41/29		41/33							

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CPY	1361	40/09	43/04	D				
CPYA	1404	43/14	S	43/17	D			
CPYC	1416	43/27	D	49/22	S	49/24	S	
CPYX	1360	43/04	L					
CPY1	1362	43/05	L	43/40				
CPY2	1413	43/24	L	43/37				
CPY3	1415	43/23		43/26	L			
CPY4	1306	42/26	L	49/21				
CPY5	1347	42/51		42/55	L	43/09		
CPY6	1354	42/49		43/01	L	43/24		
CRA	2321	48/57						
CTI	1217	41/04						
DDT	1574	42/40						
DPP	1116	40/29	L	50/36				
DPPA	1143	40/36		42/44	S	43/33	S	44/09 44/47 S
		40/45	L	42/47	S	43/35	S	44/11
DPP1	1126	40/30		40/35	L			
ERR	1440	41/04		44/02	D	47/40		48/18 49/50
		42/56		45/27		47/57		49/02 50/01
ERRX	1437	44/02	L					
ERR1	1444	44/06	L					
ERR2	1461	44/08		44/15	L			
IRA	2527	48/56						
LDQ	1100	38/01		40/07	L			
MSR	1162	41/04	L	42/53				
MSR2	1171	41/04		41/04	L			
MSR3	1176	41/04		41/04	L			
MSR4	1212	41/04		41/04	L			
PRS	1776	40/07		47/26	D			
PRX	1775	47/26	L	49/25				
PRS1	2014	47/35		47/40	L			
PRS10	2160	49/07		49/13	L			
PRS11	2163	49/09		49/14	L			
PRS12	2202	49/20		49/25	L			
PRS2	2017	47/39		47/42	L			
PRS3	2047	47/56		48/02	L			
PRS4	2067	48/09		48/18	L	48/31		48/32
PRS5	2072	48/17		48/20	L			
PRS6	2140	48/51		48/55	L			
PRS7	2142	48/53		48/56	L			
PRS8	2147	48/38		49/02	L			
PRS9	2152	49/01		49/06	L			
RFS	1467	40/08		44/45	D			
RFSX	1466	44/45	L	45/24		45/39		
RFS1	1543	44/56		45/12		45/21		45/26 L 45/38
		45/03		45/19		45/23		45/31
RFS2	1550	45/15		45/29	L			
RNS	1233	43/29		44/49				
SAF	2371	49/56						
SFB	2446	49/48						
STI	2466	50/34						
.IO	0	49/13	D	49/13				
.READSYS	3	49/08	D	49/08				

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SYMBOL QUALIFIER = 2LD

1	ACS	1300	52/49	52/54	52/56	53/12	53/14	53/20	1
2	ANS	1323	53/18						2
3	BUF	1453	52/33	52/43 S	53/21	54/23 L			3
4	ERP	1101	52/32 D						4
5	ERP B	1254	53/44	53/52 L					5
6	ERP C	1257	53/40 S	53/42 S	53/55 L				6
7	ERP X	1100	52/32 L						7
8	ERP 1	1152	53/04	53/08 L					8
9	ERP 2	1156	53/06	53/12 L					9
10	ERP 3	1164	53/02	53/15 L					10
11	ERP 4	1216	53/25	53/29 L					11
12	ERP 5	1231	53/32	53/34	53/39 L				12
13	TMSG	1261	52/53	54/01 L					13
14									14
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