

1 *EDIT 1SJ

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1412THE

COPYRT MODIFIERS.

NS2796

4 ACTIVE LINE(S).

1 INACTIVE LINE(S).

1 INSERTED LINE(S).

1SJ MODIFIERS.

NS2040	1SJ10	NS2117	1SJ20	1SJ22	NS2244	1SJ30A	1SJ33	1SJ40	1SJ44	271L716	284L847
1SJ1	1SJ11	1SJ15	1SJ21	1SJ23	NS2242	1SJ31	1SJ36	NS2395A	1SJ45	NS2707	NS2785
1SJ2	1SJ12	1SJ16	V22L602	1SJ24	NS2285	1SJ32	251L664	NS2494	1SJ46	1SJ52	
1SJ3	1SJ13	1SJ18	NS2152	1SJ25	1SJ28	242L642	1SJ30B	1SJ41	1SJ47	271L750	
1SJ4	NS21000	1SJ19	NS2153	1SJ26	1SJ29	NS2361	1SJ37	1SJ42	NS2595	1SJ53	
1SJ5	NS2072	NS22000	NS2181	1SJ27	1SJ30	1SJ34	1SJ39	253L688	1SJ48	NS2731	
1SJ7	1SJ14	NS2134	NS2197	V23L617	241L630	1SJ35	NS2437	NS2437A	1SJ49	273L780	
1SJ8	1SJ17	1SJ19A	NS2202	NS2232	NS2285A	NS2395	1SJ38	NS2542	1SJ50	NS2746	
1SJ9	NS2100	NS2143	NS2210	NS2250	NS2181B	NS2398	252L678	1SJ43	1SJ51	281L803	

*CALL	COMPMAC	1SJ	73		
*CALL	COMSCPS	1SJ	76		
*CALL	COMSDSL	271L716	6	77	
*CALL	COMSDST	241L630	5	77	
*CALL	COMSEJT	1SJ	78		
*CALL	COMSEVT	1SJ	79		
*CALL	COMSJIO	1SJ	80		
*CALL	COMSMSC	1SJ	81		
*CALL	COMSMSP	V23L617	14	81	
*CALL	COMSPIM	1SJ	83		
*CALL	COMSPRD	1SJ	84		
*CALL	COMSSCD	NS22000	1	84	
*CALL	COMSSCP	1SJ	85		
*CALL	COMSSSD	1SJ	86		
*CALL	COMSSSE	1SJ	88		
*CALL	COMS1DS	1SJ	91		
*CALL	COMPCPE	271L716	443	1921	
*CALL	COMPRJC	1SJ	1922		
*CALL	COMSSSD	V22L602	25	2207	
*CALL	COMPAST	1SJ	2210		
*CALL	COMPRSS	1SJ	2211		
*CALL	COMPSFI	NS2707	68	2211	
*CALL	COMPCPE	1SJ	3766		
*CALL	COMPAST	NS2437	9	3801	

3498 ACTIVE LINE(S).

4614 INACTIVE LINE(S).

4273 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	PPTEXT	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	COMKCBT	SYMSG	20
21	COMCBLP	COMCWTC	COMPMMR	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	COMPPII	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	COMPRII	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	COMKTDI	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	COMKTLI	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	COMKTTA	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	COMPMAC	COMPSDR	COMSPDT	OSB	CHKPT	QLOAD	ZTDPFIL	COMBLBL	SSINIT	TAFPRC	DFSORT	46
47	COMCGTO	COMPACS	COMPSEI	COMSPFM	O26	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
COMCPFP	COMP CIB	COMPSRR	COMSSCP	SLL	CVLCP	SETCORE	EOR5	COMBUDT	EORSS12	BEGIN	1DA
COMCPFS	COMPCLC	COMPSRU	COMSSCR	STL	DAYFILE	SFORM	EOR6	COMXACM	SSUSE	BLDABH	0CT
COMCPFU	COMPCKP	COMPSSE	COMSSFM	TLX	DFTERM	SFS	EOR7	COMXBST	EORSS13	CALLRTN	COMCCKD
COMCPOP	COMPCLD	COMPSSF	COMSSFS	VEJ	DOCUMENT	SHOW	EOR8	COMXCCB	SSVAL	CALLTRN	COMCMBS
COMCQFM	COMPCLX	COMPSTA	COMSSRT	VER	DSDI	SHOWEX	EOR9	COMXCTF	EORSS14	CALLTSK	COMPTFM
COMCQFP	COMP CMA	COMPSTI	COMSSRU	XHC	EDIT	SMFSUBS	EOR10	COMXEMC	EXDRVR	CEASE	COMSTFU
COMCRDA	COMP CMX	COMPSUD	COMSSSD	0AU	ENQUIRE	SORT	COMFDS1	COMXEXP	SXDEST	CHKON	TFM
COMCRDC	COMP COB	COMPSUT	COMSSSE	0AV	FCOPY	STAGE	COMFDS2	COMXFCQ	SXHLR	CMDUMP	TFU
COMCRDH	COMP CPE	COMPTGB	COMSSSJ	0BF	FILES	SUBMIT	COMFFSE	COMXHLR	SXINIT	DSDUMP	TFILES
COMCRDO	COMP CRA	COMPTLB	COMSTCM	0DF	FOTD	SUBSYST	COMFMLT	COMXINT	SXKD	EXTRACT	TFSP
COMCRDS	COMP CRS	COMPTMA	COMSTDR	0DQ	GENPFD	SYMPCOD	COMFONL	COMXI PR	SXLLR	INTOT	LDISTAP
COMCRDW	COMP CSC	COMPUFT	COMSTFM	0FA	GTR	SYSEDIT	COMFSGL	COMXJCA	SXMAIN	JOURNL	GETTASV
COMCRSB	COMP CTE	COMPUPP	COMSTIO	0PT	HELPLIB	TCOMND	COMFSMF	COMXLTC	SXSERV	LIMITS	SETTASV
COMCRSP	COMP CTI	COMPUPS	COMSTIR	0QM	HOSTCPY	TDU	COMFTAB	COMXMFD	SXSTGE	LOGIN	TMSPROC
COMCRTN	COMP CUA	COMPVEI	COMSTRX	0RF	HSTCOPY	TDU EX	COMFXCM	COMXMMF	SXSLV	MULTCB	TMSPROG
COMCSCB	COMP CUT	COMPVFC	COMSVED	0RP	IAFEX	TDUFILE	COMFXED	COMXMSC	SXUCP	SEND	
COMCSFM	COMP CVI	COMPVFN	COMSVER	0RT	IEDIT	TDUIN	COMFXFL	COMXOVL	SX3UCP	SETCHT	

COMMON DECKS ON PROGRAM LIBRARY.

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

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

DECKS WRITTEN ON COMPILE FILE.

1SJ

102700B STORAGE USED.

10830 LINES WRITTEN ON COMPILE FILE.

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ADDRESS LENGTH BINARY CONTROL CARDS.

1	1100	3457	IDENT	1SJ,SCJ
2	4557	(561)		

	BLOCKS	TYPE	ADDRESS	LENGTH
7	PROGRAM*	ABSOLUTE	0	4353
8	TABLES	ABSOLUTE	4353	0
9	OVERLAY	ABSOLUTE	4353	204
10	OVERFLOW	ABSOLUTE	4557	0

ADDRESS LENGTH BINARY CONTROL CARDS.

17	4360	722	IDENT	3SA,03SA	SCHEDULE SUBSYSTEM.
18	5302	(137)			

	BLOCKS	TYPE	ADDRESS	LENGTH
23	PROGRAM*	ABSOLUTE	0	5302
24	OVERFLOW	ABSOLUTE	5302	0

ADDRESS LENGTH BINARY CONTROL CARDS.

31	4360	1570	IDENT	3SB,03SB	SCHEDULE INPUT FILES TO EJT.
32	6150	(263)	END		

	BLOCKS	TYPE	ADDRESS	LENGTH
37	PROGRAM*	ABSOLUTE	0	5454
38	TABLES	ABSOLUTE	5454	474
39	OVERFLOW	ABSOLUTE	6150	0

44			IDENT	1SJ,SCJ	1SJ	1
45			PERIPH		1SJ	2
46	D_M		BASE	MIXED	1SJ	3
47			LIST	F	1SJ	4
48			SST		1SJ	5
49	COMMENT		82/02/26. 96/06/05. 1SJ - JOB SCHEDULER.		1SJ	6
50	COMMENT		COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.		281L803	1

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***	1SJ - JOB SCHEDULER.	1SJ	10
*	G. R. MANSFIELD. 70/09/24.	1SJ	11
*	R. E. TATE. 71/01/25.	1SJ	12
*	R. M. DANISCH 81/01/28.	1SJ	13

***	*1SJ* IS RESPONSIBLE FOR SCHEDULING JOBS TO AND FROM	1SJ	15
*	CENTRAL MEMORY.	1SJ	16
*		1SJ	17
*	*1SJ* ALWAYS ATTEMPTS TO SATISFY CM/ECS FL INCREASE	1SJ	18
*	REQUESTS OF JOBS ALREADY AT CONTROL POINTS BEFORE SELECTING	1SJ	19
*	ROLLED OUT JOBS FOR SCHEDULING. WHEN NO CM/ECS FL INCREASE	1SJ	20
*	REQUESTS ARE PRESENT, *1SJ* ATTEMPTS TO SCHEDULE ROLLED	1SJ	21
*	OUT JOBS TO CONTROL POINTS. WHETHER OR NOT ANY SUCH	1SJ	22
*	SCHEDULING ACTUALLY OCCURS DURING A GIVEN SCHEDULER CYCLE	1SJ	23
*	DEPENDS ON MANY FACTORS INCLUDING - AVAILABILITY OF CM AND	1SJ	24
*	ECS, AVAILABILITY OF CONTROL POINTS, PRIORITIES OF SCHEDULING	1SJ	25
*	CANDIDATES, PRIORITIES OF JOBS PRESENTLY IN CM, AND SERVICE	1SJ	26
*	CLASS CONSTRAINTS ON THE ALLOCATION OF MEMORY.	1SJ	27
*		1SJ	28
*	IN ADDITION TO IT-S CM/EM SCHEDULING FUNCTION, *1SJ* ALSO	271L716	1
*	PERIODICALLY SCHEDULES INPUT FILES TO THE EJT.	271L716	2

***	CALL.	1SJ	47
*		1SJ	48
*		1SJ	49
*T	18/ *1SJ*,6/ CP,11/ 0,1/ Q,24/	271L716	3
*	CP SYSTEM CONTROL POINT NUMBER.	1SJ	51
*	Q = 0 NO QFT SCHEDULING.	1SJ	54
*	= 1 PERFORM INPUT FILE SCHEDULING.	271L716	4

**	PROGRAMS CALLED.	1SJ	62
*		1SJ	63
*		1SJ	64
*	1AJ - JOB INITIATION.	1SJ	66
*	1RI - ROLLIN JOB.	1SJ	68

** COMMON DECKS.

1SJ	70
1SJ	71
1SJ	72
COMPMAC	1
1SJ	75
COMSCPS	1
1SJ	77
271L716	5
COMSDSL	1
271L716	7
NS2418	1
271L716	8

1	0	CTEXT	COMPMAC - PP SYSTEM MACROS.	COMPMAC	1
2		QUAL	CPS	1SJ	75
3	0	CTEXT	COMSCPS - CPUMTR SUBFUNCTION CODES.	COMSCPS	1
4		QUAL	*	1SJ	77
5		QUAL	DSL	271L716	5
6	0	CTEXT	COMSDSL - DEAD START LOAD PARAMETERS.	COMSDSL	1
7		QUAL	*	271L716	7
8	0	CTEXT	COMSDST - NOS/VE DUAL STATE DEFINITIONS.	NS2418	1
9		LIST	X	271L716	8

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** CONNECTION STATUS.

COMSEJT 33
COMSEJT 34
COMSEJT 35
COMSEJT 36
COMSEJT 37
COMSEJT 38
COMSEJT 39
COMSEJT 40
COMSEJT 41
COMSEJT 42
COMSEJT 43

0 NICS EQU 0 NOT INTERACTIVE
1 DTCS EQU 1 DETACHED
2 OLCS EQU 2 ON-LINE
3 MXCS EQU 3 MAXIMUM CONNECTION STATUS + 1
* EQU 3 - 13 RESERVED FOR CDC
* EQU 14 - 17 RESERVED FOR INSTALLATIONS

** SYSTEM JOB SEQUENCE NUMBER.

COMSEJT 45
COMSEJT 46
COMSEJT 47
COMSEJT 48

SJSN MICRO 1,,*SYS *

** EJT RA+1 REQUEST CODES.

COMSEJT 50
COMSEJT 51
COMSEJT 52
COMSEJT 54
COMSEJT 55
COMSEJT 56
COMSEJT 57
COMSEJT 58
COMSEJT 59
COMSEJT 60
COMSEJT 61
COMSEJT 62
COMSEJT 63
COMSEJT 64

0 BEGIN BSSN 1
L 1 DTEJ BSSN 1 DETACH JOB
L 2 ENEJ BSSN 1 ENABLE JOB FOR SCHEDULING
L 3 FJEJ BSSN 1 FREEZE JOB
L 4 RCEJ BSSN 1 RECOVER DETACHED JOB
L 5 RSEJ BSSN 1 RESTART RECOVERED JOB
L 6 RTEJ BSSN 1 RESET TIMEOUT
L 7 SAEJ BSSN 1 SET ABORT FLAG
L 10 TJEJ BSSN 1 TERMINATE JOB
L 11 MXEJ BSSN 1 MAXIMUM REQUEST VALUE + 1

7 EJPB EQU 7 PARAMETER BLOCK LENGTH

NS2224 1

** ERROR RESPONSES FOR EJT RA+1 REQUESTS.

COMSEJT 68
COMSEJT 69
COMSEJT 70
COMSEJT 71
COMSEJT 72
COMSEJT 73
COMSEJT 74
COMSEJT 75
COMSEJT 76
COMSEJT 77
COMSEJT 78

L 12 BEGIN BSSN 0
0 NOER BSSN 1 NO ERROR
L 1 IEER BSSN 1 INVALID EJTO
L 2 ISER BSSN 1 INVALID SERVICE CLASS
L 3 IOER BSSN 1 INVALID ORIGIN TYPE
L 4 MAER BSSN 1 MESSAGE BUFFER OUT OF RANGE
L 5 IPER BSSN 1 INVALID PPI

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L	6	JFER	BSSN	1	JOB NOT FOUND	COMSEJT	79
L	7	ERER	BSSN	1	ERROR ON ROLLOUT FILE READ	COMSEJT	80
L	10	NDER	BSSN	1	JOB NOT DISABLED	COMSEJT	81
L	11	ENER	BSSN	1	ENTRY POINT NAME NOT FOUND	COMSEJT	82
L	12	HEER	BSSN	1	HIGHER ERROR FLAG SET	COMSEJT	83
L	13	JDER	BSSN	1	JOB CANNOT BE DETACHED	COMSEJT	84
L	14	NRER	BSSN	1	JOB NOT RECOVERABLE	COMSEJT	85
L	15	DLER	BSSN	1	DETACH LIMIT EXCEEDED	COMSEJT	86
L	16	NTER	BSSN	1	JOB NOT DETACHED	COMSEJT	87
L	17	NSER	BSSN	1	JOB NOT SUSPENDED	COMSEJT	88
L	20	RTER	BSSN	1	RETRY - RESOURCE REJECT OR INTERLOCK	COMSEJT	89
L	21	SFER	BSSN	1	SERVICE CLASS FULL	NS22000	1
L	22	JOER	BSSN	1	JOB NOT ONLINE CONNECTION STATUS	NS2091	1
L	23	SSER	BSSN	1	SYSTEM SOFTWARE ERROR	241L630	1
L	24	REER	BSSN	1	RECOVERABLE DISK ERROR	NS2658	1

** REASON CODES FOR DETACH. COMSEJT 94

L	25	BEGIN	BSSN	1		COMSEJT	95
						COMSEJT	96
						V22L602	1
						V22L602	2
L	1	LDRC	BSSN	1	LINE DISCONNECT	V22L602	3
L	2	TORC	BSSN	1	TIMEOUT	V22L602	4
L	3	SARC	BSSN	1	SUBSYSTEM ABORT	V22L602	5
L	4	UDRC	BSSN	1	USER DETACH	V22L602	6
L	5	PDCR	BSSN	1	PROGRAM INITIATED DETACH	V22L602	7
L	6	PIDL	BSSN	1	PROGRAM INITIATED DETACH AND LOGOUT	241L630	2
L	7	MXDT	BSSN	1	MAXIMUM DETACH REASON CODE	V22L602	8
						V22L602	9
L	10	END	BSSN			V22L602	10

M_M	BASE	*				COMSEJT	102
	ENDX					COMSEJT	103
	LIST	*				271L716	9
0	CTEXT	COMSEVT	-	EVENT DESCRIPTORS.		COMSEVT	1
46	CTEXT	COMSJIO	-	QFT EQUIVALENCES.		COMSJIO	1
46	CTEXT	COMSMSC	-	MISCELLANEOUS SYSTEM CONSTANTS.		COMSMSC	1
46	CTEXT	COMSMSP	-	MASS STORAGE PROCESSING EQUIVALENCES.		COMSMSP	1
46	CTEXT	COMSPIM	-	PP INSTRUCTION MNEMONICS.		COMSPIM	1
	LIST	X				271L716	13

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M_M

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CTEXT COMSPRD - PRIORITY DEFINITIONS.
BASE M
COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.

COMSPRD 1
COMSPRD 2
281L803 1

COMSPRD - PRIORITY DEFINITIONS.
L. C. HAAS. 76/07/01.

COMSPRD 5
COMSPRD 6

COMSPRD DEFINES CPU PRIORITIES.

COMSPRD 8

**

CPU PRIORITIES.

COMSPRD 10

0	BICS	EQU	0	BATCHIO	COMSPRD	13
0	MSCS	EQU	0	MSM	COMSPRD	14
					271L716	1
1	IDCS	EQU	1	IDLE PACKAGE	271L716	2
					271L716	3
2	LJCS	EQU	2	LOWEST USER JOB CPU PRIORITY	271L716	4
					271L716	5
60	TSCS	EQU	60	STIMULATOR	NS2731	1
					COMSPRD	15
70	LSCS	EQU	70	LOWEST SYSTEM CPU PRIORITY	NS2731	2
					COMSPRD	19
71	SCCS	EQU	71	SCRSIM	COMSPRD	20
71	QFCS	EQU	71	QFSP	COMSPRD	21
					COMSPRD	22
72	MFCS	EQU	72	ALTERNATE STORAGE, AT=1 - MSS	V23L617	1
72	AFCS	EQU	72	ALTERNATE STORAGE, AT=2 - MSE	242L642	1
72	CZCS	EQU	72	CDCS	COMSPRD	24
72	MCCS	EQU	72	MCS	COMSPRD	25
72	RBCS	EQU	72	RBF	COMSPRD	26
72	LTCS	EQU	72	LIBTASK	NS2523	1
72	TACS	EQU	72	TAF	COMSPRD	27
72	EICS	EQU	72	EI200	COMSPRD	28
72	SMCS	EQU	72	SMF	NS21000	1
72	MPCS	EQU	72	MAP III	COMSPRD	29
72	PFCS	EQU	72	PFS	COMSPRD	30
72	TLCS	EQU	72	TLF	V23L617	3
72	NJCS	EQU	72	NJF	V23L617	4
72	ATCS	EQU	72	ATF	274L797	1
72	C1CS	EQU	72	CRS	NCCCRS	1
72	I1CS	EQU	72	IN1 (RESERVED FOR INSTALLATION)	V22L602	1
72	I2CS	EQU	72	IN2 (RESERVED FOR INSTALLATION)	V22L602	2
					COMSPRD	31
					COMSPRD	32
74	MLCS	EQU	74	NVE	NS21000	2
74	RFCS	EQU	74	RHF	COMSPRD	33
74	NSCS	EQU	74	NS	COMSPRD	34

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	74	CSCS	EQU	74	CS	COMSPRD	35
	74	NVCS	EQU	74	NVF	COMSPRD	36
	74	SSCS	EQU	74	SSF	NS21000	3
1	74	PLCS	EQU	74	CYBIS STARTUP JOB	NS2746	1
2						COMSPRD	37
3	75	MVCS	EQU	75	MODVAL	COMSPRD	38
4	75	RXCS	EQU	75	RESEX	COMSPRD	39
5	75	PRCS	EQU	75	PROFILE	COMSPRD	40
6	75	ISCS	EQU	75	ISF	COMSPRD	41
7						COMSPRD	42
8	76	LCCS	EQU	76	LOADBC	COMSPRD	43
9	76	MTCS	EQU	76	MAGNET	COMSPRD	44
10	76	SYCS	EQU	76	SYSEDIT	COMSPRD	45
11	76	MRCS	EQU	76	MREC	COMSPRD	46
12	76	IACS	EQU	76	IAF	COMSPRD	47
13						COMSPRD	48
14	77	NMCS	EQU	77	NIP/NAM	COMSPRD	49
15						COMSPRD	50
16	100	MPRS	EQU	100	MONITOR FUNCTION PRIORITY	COMSPRD	51
17							
18							
19							
20							
21	M_M		BASE	*		COMSPRD	53
22			ENDX			COMSPRD	54
23			LIST	*		271L716	14
24	46		CTEXT	COMSSCD - SERVICE CLASS DEFINITIONS.		COMSSCD	1
25			LIST	G		COMSSCD	119
26			LIST	*		COMSSCD	166
27	46		CTEXT	COMSSCP - SYSTEM CONTROL POINT EQUIVALENCES.		COMSSCP	1
28			LIST	X		271L716	15
29							
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CTEXT COMSSSD - SUBSYSTEM DEFINITIONS.

COMSSSD 1

1										1
2										2
3		M_M	BASE	M				COMSSSD	3	3
4		*	COMMENT		COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.			281L803	1	4
5										5
6										6
7										7
8										8
9										9
10			***		COMSSSD - SUBSYSTEM DEFINITIONS.			COMSSSD	6	10
11			*					COMSSSD	7	11
12			*	R. M. DANISCH.	81/01/26.			COMSSSD	8	12
13			*	R. C. SCHMITTER.	83/08/17.			COMSSSD	9	13
14										14
15										15
16										16
17			**		COMSSSD DEFINES SUBSYSTEM IDENTIFICATION NUMBERS FOR			COMSSSD	11	17
18			*		ALL SUBSYSTEMS. IN ADDITION, IF SYMBOL *SUB\$* IS DEFINED			COMSSSD	12	18
19			*		BY THE CALLING PROGRAM, A MACRO CALL WILL BE ISSUED FOR			COMSSSD	13	19
20			*		EACH SUBSYSTEM. THE CALLING PROGRAM MUST DEFINE THE			COMSSSD	14	20
21			*		*SUBSYST* MACRO SUCH THAT IT GENERATES THE REQUIRED CODE.			COMSSSD	15	21
22										22
23										23
24										24
25										25
26			***		SSID - DEFINE SUBSYSTEM ID.			COMSSSD	17	26
27			*					COMSSSD	18	27
28			*		SSID ID,TAG			COMSSSD	19	28
29			*					COMSSSD	20	29
30			*		ENTRY *ID* = SUBSYSTEM ID SYMBOL NAME.			COMSSSD	21	30
31			*		*TAG* = ALTERNATE SYMBOL NAME.			COMSSSD	22	31
32								COMSSSD	23	32
33								COMSSSD	24	33
34					PURGMAC SSID			COMSSSD	25	34
35								COMSSSD	26	35
36			SSID	MACRO	ID,TAG			COMSSSD	27	36
37			.A	IFC	EQ,\$ID\$BEGIN\$			COMSSSD	28	37
38			.1	SET	10000B			COMSSSD	29	38
39			.D	SKIP				COMSSSD	30	39
40			.A	ELSE				COMSSSD	31	40
41			.B	IFC	NE,\$ID\$END\$			COMSSSD	32	41
42			ID	EQU	.1			COMSSSD	33	42
43			.B	ENDIF				COMSSSD	34	43
44			.C	IFC	NE,\$TAG\$\$			COMSSSD	35	44
45			TAG	EQU	.1			COMSSSD	36	45
46			.C	ENDIF				COMSSSD	37	46
47			.D	ENDIF				COMSSSD	38	47
48			.1	SET	.1-1			COMSSSD	39	48
49			SSID	ENDM				COMSSSD	40	49
50										50
51										51
52										52
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54										54
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59										59
60										60

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**      DEFINE SUBSYSTEM IDENTIFICATION NUMBERS.      COMSSSD  42
*
*      TO ADD A NEW SUBSYSTEM ID, INSERT AN *SSID* MACRO CALL      COMSSSD  44
*      WITH THE ID SYMBOL.  THE POSITION OF THE SUBSYSTEM IN THE      COMSSSD  45
*      TABLE DETERMINES ITS SUBSYSTEM ID; THEY ARE DEFINED IN      COMSSSD  46
*      DESCENDING NUMERICAL ORDER.  A NEW SUBSYSTEM SHOULD          COMSSSD  47
*      ONLY BE ADDED AT THE END OF THE TABLE TO AVOID BINARY      COMSSSD  48
*      INCOMPATIBILITIES BETWEEN EXISTING ABSOLUTE BINARIES        COMSSSD  49
*      AND *SCP* TYPE SUBSYSTEMS, SUCH AS *CDCS* AND *MCS*.        COMSSSD  50
*      TWO SUBSYSTEMS ARE DEFINED AND RESERVED FOR INSTALLATION    COMSSSD  51
*      USE.                                                         COMSSSD  52

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			SSID	BEGIN		COMSSSD	54
			SSID	DSSI	DEADSTART SEQUENCING	COMSSSD	56
			SSID	IFSI, MXSI	IAF	COMSSSD	57
			SSID	RFSI	RHF	COMSSSD	58
			SSID	I1SI	RESERVED FOR INSTALLATION	COMSSSD	59
			SSID	I2SI	RESERVED FOR INSTALLATION	COMSSSD	60
			SSID	TRSI	TAF	COMSSSD	61
			SSID	MPSI	MAP III	COMSSSD	62
			SSID	NMSI	NAM	COMSSSD	63
			SSID	NVSI	NVE	COMSSSD	64
			SSID	CDSI	CDCS	COMSSSD	65
			SSID	MCSI	MCS	COMSSSD	66
			SSID	RDSI	RDF	COMSSSD	67
			SSID	MFSI	MSS	COMSSSD	68
			SSID	RBSI	RBF	COMSSSD	69
			SSID	BISI	BATCHIO	COMSSSD	70
			SSID	MTSI	MAGNET	COMSSSD	71
			SSID	STSI	STIMULATOR	COMSSSD	72
			SSID	MSSI	MSM	COMSSSD	73
			SSID	SMSI	SMF	COMSSSD	74
			SSID	SSSI	SSF	COMSSSD	75
			SSID	ASSI	MSE	COMSSSD	76
			SSID	TLSI	TLF	COMSSSD	77
			SSID	NJSI	NJF	COMSSSD	78
			SSID	PLSI	CYBIS	NS2746	1
			SSID	ATSI	ATF	274L797	1
			SSID	C1SI	CRS	NCCCRS	1
			SSID	END, LSSI	LOWEST SUBSYSTEM ID - 1	274L797	2
						COMSSSD	83
	43		ERRNG	LSSI-MXSI+60D	TOO MANY SUBSYSTEMS	COMSSSD	84
						COMSSSD	85
	4	FZSI	EQU	4	INHIBIT ROLLOUT (FROZEN JOB)	NS2355	1
	3	ORSI	EQU	3	ALLOW OPERATOR ROLLOUT (FOR *SSJ=* JOBS)	COMSSSD	86
	1	IRSI	EQU	1	INHIBIT ROLLOUT (USED BY *SSJ=* JOBS)	COMSSSD	88
	0	UJSI	EQU	0	NON-SUBSYSTEM JOB (DEFAULT FOR USER JOBS)	COMSSSD	89

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35	.A	SET	MXSI-LSSI+4	COMSSSD	91
5	SSCTL	EQU	.A/5 LENGTH OF SSCT	COMSSSD	92
	SUB\$	IF	DEF,SUB\$	COMSSSD	93
		SPACE	4,10	COMSSSD	94
	**	DEFINE	SUBSYSTEM ATTRIBUTES.	COMSSSD	95
	*			COMSSSD	96
	*	THESE	MACRO CALLS DEFINE THE ATTRIBUTES OF EACH SUBSYSTEM	COMSSSD	97
	*	IN	THE SYSTEM. EACH DECK THAT REQUIRES A TABLE OF ONE OR	COMSSSD	98
	*	MORE	OF THESE ATTRIBUTES MUST DEFINE THE *SUBSYST* MACRO	COMSSSD	99
	*	APPROPRIATELY.	IN ORDER TO ADD A SUBSYSTEM, THE FOLLOWING	COMSSSD	100
	*	DECKS	MUST BE CHANGED AND ALL DECKS CALLING THIS COMMON	COMSSSD	101
	*	DECK	(COMSSSD) MUST BE REASSEMBLED.	COMSSSD	102
	*			COMSSSD	103
	*	1.	PPCOM - DOCUMENT THE BYTE POSITION IN THE *SSCT* AND	COMSSSD	104
	*		*SSAT* TABLES.	COMSSSD	105
	*	2.	COMSPRD - DEFINE A CPU PRIORITY FOR THE SUBSYSTEM.	COMSSSD	106
	*	3.	COMSSSD - DEFINE A SUBSYSTEM ID WITH THE *SSID* MACRO.	COMSSSD	107
	*		ADD A *SUBSYST* MACRO CALL WITH ALL ATTRIBUTES.	COMSSSD	108
	*	4.	COMUCPD - ADD THE SUBSYSTEM NAME TO THE HEADER TABLE.	COMSSSD	109
	*	5.	DSD - ADD A SYNTAX TABLE ENTRY FOR INITIATING THE	COMSSSD	110
	*		SUBSYSTEM IN ALPHABETICAL ORDER IN THE SYNTAX TABLE	COMSSSD	111
	*		OVERLAYS.	COMSSSD	112
	*	6.	COMTNAP - IF THE NEW SUBSYSTEM IS A *NAM* APPLICATION,	274L797	3
	*		ADD AN ENTRY TO THE *TNAV* TABLE.	274L797	4
	*	7.	COMSACC - IF THE NEW SUBSYSTEM IS A *NAM* APPLICATION,	274L797	5
	*		DOCUMENT THE APPLICATION VALIDATION BIT.	274L797	6
	*	8.	MODVAL - IF THE NEW SUBSYSTEM IS A *NAM* APPLICATION,	274L797	7
	*		DOCUMENT THE APPLICATION VALIDATION BIT.	274L797	8
	*			COMSSSD	113
	*	THE	FOLLOWING ATTRIBUTES ARE DEFINED BY THE *SUBSYST* MACRO	COMSSSD	114
	*	CALLS.	THEY ARE DESCRIBED IN THE ORDER THEY APPEAR IN THE	COMSSSD	115
	*	CALL;	EACH DECK MUST INSURE THAT ITS MACRO IS DEFINED WITH	COMSSSD	116
	*	THE	PARAMETERS DEFINED IN THE SAME ORDER. THE *SUBSYST*	COMSSSD	117
	*	MACRO	IS CALLED AS FOLLOWS -	COMSSSD	118
	*			COMSSSD	119
	*	SUBSYST	NAME, ID, PR, PP, AUTO, DEF, DCP, CP, PROC, ABT, CPU	271L750	1
	*			COMSSSD	121
	*			COMSSSD	122
	*	NAME	- SUBSYSTEM NAME (THREE CHARACTERS).	COMSSSD	123
	*	ID	- SUBSYSTEM ID (AS DEFINED BY THE *SSID* MACRO ABOVE).	COMSSSD	124
	*	PR	- CPU PRIORITY (AS DEFINED IN *COMSPRD*).	COMSSSD	125
	*	PP	- WHETHER OR NOT THE SUBSYSTEM IS PP INITIATED. IF SO,	COMSSSD	126
	*		THE PP NAME IS USED AS THE PARAMETER VALUE. IF NOT, A	COMSSSD	127
	*		NULL VALUE IS USED.	COMSSSD	128
	*	AUTO	- WHETHER OR NOT THE SUBSYSTEM IS INITIATED BY THE AUTO	COMSSSD	129
	*		OPERATOR COMMAND (IF ENABLED IN *SSSL*).	COMSSSD	130
	*		VALUE *AUTO* IS USED. IF NOT, A NULL VALUE IS USED.	COMSSSD	131
	*	DEF	- WHETHER OR NOT THE SUBSYSTEM IS ENABLED BY DEFAULT.	COMSSSD	132
	*		IF SO, A VALUE OF *ENABLE* IS USED. OTHERWISE A NULL	COMSSSD	133
	*		VALUE IS USED.	COMSSSD	134
	*	DCP	- WHETHER OR NOT A DEFAULT CONTROL POINT NUMBER IS	COMSSSD	135
	*		DEFINED AT WHICH TO INITIATE THE SUBSYSTEM (IF NONE	COMSSSD	136
	*		IS SUPPLIED BY AN IPRDECK *ENABLE/DISABLE* ENTRY OR	COMSSSD	137
	*		OPERATOR *ENABLE/DISABLE* ENTRY FROM THE *SUBSYST*	COMSSSD	138
	*		L-DISPLAY. THIS VALUE CAN BE A SYMBOL OR A VALUE SUCH	COMSSSD	139
	*		AS -1, WHICH MEANS THE LAST CONTROL POINT.	COMSSSD	140
	*	CP	- WHETHER OR NOT A CONTROL POINT IS ALLOWED ON THE	COMSSSD	141

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	*	*ENABLE/DISABLE* COMMANDS. FOR EXAMPLE, *IAF* DOES	COMSSSD	142
	*	NOT ALLOW THE DEFAULT OF CONTROL POINT 1 TO BE	COMSSSD	143
	*	CHANGED. IF ANOTHER CONTROL POINT IS ALLOWED, THE	COMSSSD	144
1	*	VALUE *YES* IS USED. IF NOT, THE VALUE *NO* IS USED.	COMSSSD	145
2	*	PROC - WHETHER OR NOT THE PROCEDURE THAT INITIATES THE	COMSSSD	146
3	*	SUBSYSTEM CAN CONSIST OF MORE THAN JUST THE 3	COMSSSD	147
4	*	CHARACTER SUBSYSTEM NAME. FOR EXAMPLE, *BATCHIO* MUST	COMSSSD	148
5	*	BE INITIATED BY A PROCEDURE NAMED *BIO*, WHILE *IAF*	COMSSSD	149
6	*	IS INITIATED BY ANY PROCEDURE OF THE FORM *IAFXXXX*.	COMSSSD	150
7	*	IF AN ALTERNATE NAME IS ALLOWED, THE VALUE *YES* IS	COMSSSD	151
8	*	USED. IF NOT, THE VALUE *NO* IS USED.	COMSSSD	152
9	*	ABT - WHETHER OR NOT THE SUBSYSTEM SHOULD BE ABORTED BY	COMSSSD	153
10	*	*1CK* WHEN PROCESSING A *CHECKPOINT SYSTEM* COMMAND.	COMSSSD	154
11	*	IF THE SUBSYSTEM IS NOT TO BE ABORTED, THE VALUE *NA*	COMSSSD	155
12	*	IS USED. IF THE SUBSYSTEM IS TO BE ABORTED, A NULL	COMSSSD	156
13	*	VALUE IS USED.	COMSSSD	157
14	*	CPU - WHETHER OR NOT THE SUBSYSTEM SHOULD BE FORCED INTO	271L750	2
15	*	CPU 0 ON A DUAL CPU MACHINE WITH CACHE. IF THE	271L750	3
16	*	SUBSYSTEM IS TO BE FORCED INTO CPU 0, THE VALUE *CPU0*	271L750	4
17	*	IS USED. IF THE SUBSYSTEM MAY RUN IN EITHER CPU,	271L750	5
18	*	A NULL VALUE IS USED.	271L750	6
19			COMSSSD	158
20			COMSSSD	159
21		SUBSYST IAF,IFSI,IACS,,AUTO,,VCPT,NO,YES,,CPU0	271L750	7
22		SUBSYST RHF,RFSI,RFCS,,AUTO,,,YES,YES	COMSSSD	161
23		SUBSYST IN1,I1SI,I1CS,,AUTO,,,YES,YES	COMSSSD	162
24		SUBSYST IN2,I2SI,I2CS,,AUTO,,,YES,YES	COMSSSD	163
25		SUBSYST TAF,TRSI,TACS,,AUTO,,,YES,YES	COMSSSD	164
26		SUBSYST MAP,MPSI,MPCS,,AUTO,,,YES,YES,NA	COMSSSD	165
27		SUBSYST NAM,NMSI,NMCS,,AUTO,,,YES,YES	COMSSSD	166
28		SUBSYST NVE,NVSI,MLCS,,AUTO,,,YES,YES,NA,CPU0	NS2779	1
29		SUBSYST CDC,CDSI,CZCS,,AUTO,,,YES,YES	COMSSSD	168
30		SUBSYST MCS,MCSI,MCCS,,AUTO,,,YES,YES	COMSSSD	169
31		SUBSYST RDF,RDSI,,,AUTO,,VCPT,NO,YES,,CPU0	271L750	8
32		SUBSYST MSS,MFSI,MFCS,,AUTO,,,YES,YES	COMSSSD	171
33		SUBSYST RBF,RBSI,RBCS,,,,,YES,YES	274L797	9
34		SUBSYST BIO,BISI,BICS,1IO,AUTO,ENABLE,-2,YES,NO	COMSSSD	173
35		SUBSYST MAG,MTSI,MTCS,,AUTO,ENABLE,-3,YES,YES,NA,CPU0	271L750	9
36		SUBSYST STM,STSI,TSCS,,,,-1,YES,YES	NS2715	1
37		SUBSYST CMS,MSSI,MFCS,CMS,,,,NO,NO	COMSSSD	176
38		SUBSYST SMF,SMSI,SMCS,,AUTO,,,YES,YES	COMSSSD	177
39		SUBSYST SSF,SSSI,SSCS,,AUTO,,,YES,YES	COMSSSD	178
40		SUBSYST MSE,ASSI,AFCS,,AUTO,,,YES,YES	COMSSSD	179
41		SUBSYST TLF,TLSI,TLCS,,AUTO,,,YES,YES	COMSSSD	180
42		SUBSYST NJF,NJSI,NJCS,,AUTO,,,YES,YES	COMSSSD	181
43		SUBSYST CYB,PLSI,PLCS,,,,,YES,YES	NS2746	2
44		SUBSYST ATF,ATSI,ATCS,,,,,YES,YES	274L797	10
45		SUBSYST CRS,C1SI,C1CS,,AUTO,,,YES,YES	NCCCRS	2
46		SUB\$ ENDIF	274L797	11

1412THE

1

M_M

BASE *
ENDX
LIST *
CTEXT
QUAL 1DS
CTEXT
QUAL *

COMSSSD 185
COMSSSD 186
1SJ 87
COMSSSE 1
1SJ 90
COMS1DS 1
1SJ 92

46

COMSSSE - SYSTEM SECTOR EQUIVALENCES.

COMSSSE 1

46

COMS1DS - 1DS FUNCTION CODE DEFINITIONS.

COMS1DS 1

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1412THE

** MACRO DEFINITIONS.

1SJ 94

1SJ 95

1SJ 96

** JOBSTAT - DEFINE JOB STATE ATTRIBUTES.

242L642 2

*

1SJ 98

* JOBSTAT NAME,STATUS,SS,ES,FR,TE,PI

242L642 3

* NAME TABLE NAME IF PRESENT.

242L642 4

* STATUS JOB STATUS.

242L642 5

* SS NON-BLANK IF SCHEDULABLE JOB STATUS.

242L642 6

* ES NON-BLANK IF ERROR FLAG SET CAUSES JOB

242L642 7

* STATUS TO BECOME SCHEDULABLE.

242L642 8

* FR NON-BLANK IF JOB MAY BE FORCED ROLLED IN.

242L642 9

* TE NON-BLANK IF TIMED/EVENT TYPE JOB STATUS.

242L642 10

* PI NON-BLANK IF PRE-INITIAL JOB STEP TYPE

242L642 11

* STATUS.

242L642 12

* JOBSTAT A,B,C,D,E,F,G

242L642 13

*

271L716 16

* NOTE - ANY CHANGES TO THIS MACRO MUST BE ACCOMPANIED BY A

271L716 17

* CORRESPONDING CHANGE TO THE *JOBSTAT* MACRO DEFINED

271L716 18

* IN *1PP*.

271L716 19

1SJ 106

1SJ 107

PURGMAC JOBSTAT

1SJ 108

1SJ 109

MACRO JOBSTAT,NAME,STATUS,SS,ES,FR,TE,PI

242L642 14

.1 IFC NE,\$NAME\$\$

242L642 15

NAME INDEX

271L716 20

.1 ELSE

242L642 18

.V SET 0

271L716 21

IFC NE,\$SS\$\$,1

242L642 22

.V SET .V+4000

271L716 22

IFC NE,\$ES\$\$,1

242L642 24

.V SET .V+2000

271L716 23

IFC NE,\$FR\$\$,1

242L642 26

.V SET .V+1000

271L716 24

IFC NE,\$TE\$\$,1

242L642 28

.V SET .V+400

271L716 25

IFC NE,\$PI\$\$,1

242L642 30

.V SET .V+200

271L716 26

INDEX STATUS,.V

271L716 27

.1 ENDIF

242L642 33

ENDM

1SJ 126

** SUBSYST - GENERATE SUBSYSTEM TABLE.

V22L602 2

*

V22L602 3

* SUBSYST NAME,ID,PR,PP,AUTO,DEF,DCP,CP,PROC,ABT

V22L602 4

*

V22L602 5

* ENTRY *PR* = CPU PRIORITY AT WHICH TO INITIATE THE

V22L602 6

* SUBSYSTEM.

V22L602 7

*

V22L602 8

* TABLE OF SUBSYSTEM CPU PRIORITIES.

V22L602 9

*

V22L602 10

*T 12/ PRIORITY

V22L602 11

V22L602 12

PURGMAC SUBSYST

V22L602 13
V22L602 14
V22L602 15
V22L602 16
V22L602 17
V22L602 18
V22L602 19
V22L602 20
V22L602 21
V22L602 22

```
1 SUBSYST MACRO NM, ID, PT, PP, AU, DF, DC, CP, PR, AB
2 .A IFC NE, $PT$$
3 .SUB RMT
4 INDEX (MXSI-ID), PT
5 .SUB RMT
6 .A ENDIF
7 SUBSYST ENDM
```

** CONSTANTS.

1SJ 128
1SJ 129
1SJ 130
1SJ 131

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7777 MXPR EQU 7777 MAXIMUM SCHEDULING PRIORITY (INTERNAL)
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**** DIRECT CELL ASSIGNMENTS.

1SJ 133
1SJ 134
1SJ 135
242L642 34
242L642 35
1SJ 136
1SJ 137
1SJ 138
1SJ 139
1SJ 140
1SJ 141
1SJ 142
271L716 28
271L716 29
271L716 30
271L716 31
271L716 32
1SJ 147
1SJ 148
271L716 33
1SJ 151
1SJ 152
1SJ 153
1SJ 154
1SJ 155
1SJ 156
271L716 34
1SJ 158
1SJ 159
1SJ 160

1	16	T8	EQU	16	SCRATCH	242L642	34
2	17	T9	EQU	17	SCRATCH	242L642	35
3	20	AA	EQU	20 - 24	SCRATCH (5 CELLS)	1SJ	136
4	25	TM	EQU	25 - 26	SECONDS PORTION OF *RTCL* (2 CELLS)	1SJ	137
5	27	BB	EQU	27 - 33	SCRATCH (5 CELLS)	1SJ	138
6	34	EO	EQU	34	EJT ORDINAL	1SJ	139
7	35	IO	EQU	35	QFT ORDINAL (USED ONLY IN *SIE*)	1SJ	140
8	36	TE	EQU	36	LWA OF LAST *TACP* ENTRY	1SJ	141
9	37	AM	EQU	37 - 40	AVAILABLE + ROLLING CM (2 CELLS)	1SJ	142
10	41	SC	EQU	41	SERVICE CLASS	271L716	28
11	42	AE	EQU	42	AVAILABLE + ROLLING EM	271L716	29
12	43	TP	EQU	43	SCRATCH	271L716	30
13	44	RM	EQU	44 - 45	ROLLING CM (2 CELLS)	271L716	31
14	46	RE	EQU	46	ROLLING EM	271L716	32
15	47	ES	EQU	47	EXCESS ECS OF SERVICE CLASS	1SJ	147
16	50	EJ	EQU	50 - 54	EJT BUFFER (5 CELLS)	1SJ	148
17	57	CS	EQU	57 - 60	EXCESS CM OF SERVICE CLASS (2 CELLS)	271L716	33
18	61	SP	EQU	61	SERVICE CLASS OF SELECTED JOB	1SJ	151
19	62	JP	EQU	62	SCHEDULING PRIORITY OF SELECTED JOB	1SJ	152
20	63	JC	EQU	63	CONTROL POINT NUMBER OF SELECTED JOB	1SJ	153
21	64	JM	EQU	64	CM FL REQUIRED BY SELECTED JOB	1SJ	154
22	65	JE	EQU	65	ECS FL REQUIRED BY SELECTED JOB	1SJ	155
23	66	NC	EQU	66	NUMBER OF CONTROL POINTS	1SJ	156
24	67	EP	EQU	67	EJT ORDINAL OF SELECTED JOB	271L716	34

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USE TABLES

1SJ 162

4353

1 TDAC BSS 0
TDACE EQU 1 ENTRY SIZE

1SJ 164
1SJ 165
1SJ 166
1SJ 167
1SJ 168
1SJ 169
1SJ 170
1SJ 171
1SJ 172
271L716 35

** TTCU - ASSIGNED CM FL.
* ENTRY = 2 WORDS.
* INDEXED BY SERVICE CLASS.
*
*T 24/ CM
* CM CM FL ASSIGNED TO JOBS OF SERVICE CLASS.

5353 TTCU EQU TDAC+ESMX
2 TTCUE EQU 2 ENTRY SIZE

1SJ 174
1SJ 175
1SJ 176
1SJ 177
1SJ 178
1SJ 179
1SJ 180
1SJ 181
NS22000 2
271L716 36

** TTUE - ASSIGNED ECS FL.
* ENTRY = 1 WORD.
* INDEXED BY SERVICE CLASS.
*
*T 12/ EC
* EC ECS FL ASSIGNED TO JOBS OF SERVICE CLASS.

5421 TTUE EQU TTCU+MXJC*TTCUE
1 TTUEE EQU 1 ENTRY SIZE

284L847 1
1SJ 185
1SJ 186
1SJ 187
1SJ 188
1SJ 189
1SJ 190
1SJ 191
284L847 2
284L847 3

USE *

1SJ 193

* THE FOLLOWING TABLES ARE LOCATED TOWARD THE HIGH END OF PP MEMORY TO FACILITATE *1SJ-S* OVERLAY STRUCTURE. 1SJ 195
1SJ 196

1										1
2										2
3										3
4										4
5										5
6										6
7										7
8		**	TEPB - EJT/CP SCHEDULING PARAMETERS.					1SJ	198	8
9		*	ENTRY = 4 WORDS.					271L716	41	9
10		*	INDEXED BY SERVICE CLASS.					1SJ	200	10
11		*						1SJ	201	11
12		*T	12/ LB,12/ UB,12/ WF,12/ IP					271L716	42	12
13		*	LB LOWER BOUND SCHEDULING PRIORITY OF EXECUTING JOBS.					1SJ	205	13
14		*	UB UPPER BOUND SCHEDULING PRIORITY OF EXECUTING JOBS.					1SJ	206	14
15		*	WF WEIGHTING FACTOR.					1SJ	207	15
16		*	IP INITIAL SCHEDULING PRIORITY OF EXECUTING JOBS.					1SJ	208	16
17								1SJ	209	17
18								1SJ	210	18
19		4	TEPBE EQU 4	ENTRY SIZE				271L716	43	19
20		6662	TEPB EQU	BFMS-MXJC*TEPBE				271L716	44	20
21										21
22										22
23										23
24										24
25		**	TJAM - SERVICE CLASS RESOURCE CONSTRAINTS.					1SJ	213	25
26		*	ENTRY = 6 WORDS.					1SJ	214	26
27		*	INDEXED BY SERVICE CLASS.					1SJ	215	27
28		*						1SJ	216	28
29		*T	12/ MJ,12/ MCJ,24/ MCT,12/ MEJ,12/ MET					1SJ	217	29
30		*	MJ MAXIMUM NUMBER OF JOBS OF SERVICE CLASS ALLOWED IN					1SJ	218	30
31		*	SYSTEM (ASSIGNED TO EJT ENTRIES).					1SJ	219	31
32		*	MCJ MAXIMUM CM FL/100B PER JOB OF SERVICE CLASS.					1SJ	220	32
33		*	MCT MAXIMUM TOTAL CM FL/100B FOR ALL JOBS OF SERVICE					1SJ	221	33
34		*	CLASS.					1SJ	222	34
35		*	MEJ MAXIMUM ECS FL/100B PER JOB OF SERVICE CLASS.					1SJ	223	35
36		*	MET MAXIMUM TOTAL ECS FL/100B FOR ALL JOBS OF SERVICE					1SJ	224	36
37		*	CLASS.					1SJ	225	37
38								1SJ	226	38
39								1SJ	227	39
40		6	TJAME EQU 6	ENTRY SIZE				271L716	45	40
41		6500	TJAM EQU	TEPB-MXJC*TJAME				271L716	46	41
42										42
43										43
44										44
45										45
46										46
47										47
48										48
49										49
50										50
51										51
52										52
53										53
54										54
55										55
56										56
57										57
58										58
59										59
60										60

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* THE FOLLOWING TABLES ARE OVERLAYED BY *3SA* AND *3SB*. 271L716 47

1									
2									
3		**	TACP - ACTIVE CP-S AND PCP-S.				271L716	48	
4		*	ENTRY = 1 WORD.				1SJ	233	
5		*	ENTRIES ARE ORDERED BY DESCENDING SCHEDULING PRIORITY. A ZERO				1SJ	234	
6		*	ENTRY TERMINATES THE TABLE AND A ZERO WORD MUST PRECEDE THE				1SJ	235	
7		*	TABLE.				1SJ	236	
8		*					1SJ	237	
9		*T	1/ P,1/ R,3/,7/ CP				271L716	49	
10		*	P ROLLOUT IN PROGRESS.				1SJ	239	
11		*	R REQUEST ROLLOUT.				1SJ	240	
12		*	CP CP/PCP NUMBER.				271L716	50	
13							1SJ	242	
14							1SJ	243	
15		1	TACPE	EQU	1	ENTRY SIZE	271L716	51	
16	6407		TACP	EQU		TJAM-/DSL/NCPS-1-/DSL/NPPS	271L716	52	
17									
18									
19									
20									
21		**	TJEC - JOB ECS FIELD LENGTH.				1SJ	246	
22		*	ENTRY = 1 WORD.				1SJ	247	
23		*	INDEXED BY CP/PCP NUMBER.				271L716	53	
24		*					1SJ	249	
25		*T	12/ EC				1SJ	250	
26		*	EC EM FL ASSIGNED TO CP/PCP.				271L716	54	
27							1SJ	252	
28							1SJ	253	
29		1	TJECE	EQU	1	ENTRY SIZE	271L716	55	
30	6315		TJEC	EQU		TACP-/DSL/NCPS-2-/DSL/NPPS	271L716	56	
31									
32									
33									
34									
35		**	TJCM - JOB CM FIELD LENGTH (INCLUDING NFL).				1SJ	256	
36		*	ENTRY = 1 WORD.				1SJ	257	
37		*	INDEXED BY CP/PCP NUMBER.				271L716	57	
38		*					1SJ	259	
39		*T	12/ FL				1SJ	260	
40		*	FL CM FL (INCLUDING NFL) ASSIGNED TO CP/PCP.				271L716	58	
41							1SJ	262	
42							1SJ	263	
43		1	TJCME	EQU	1	ENTRY SIZE	271L716	59	
44	6224		TJCM	EQU		TJEC-/DSL/NCPS-1-/DSL/NPPS	271L716	60	
45									
46									
47									
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54									
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1412THE

** TJPR - JOB SCHEDULING PRIORITY.
 * ENTRY = 1 WORD.
 * INDEXED BY CP/PCP NUMBER.
 *
 *T 12/ PR
 * PR SCHEDULING PRIORITY OF JOB.

1SJ 266
 1SJ 267
 271L716 61
 1SJ 269
 1SJ 270
 1SJ 271
 1SJ 272
 1SJ 273
 271L716 62
 271L716 63

1 TJPRE EQU 1 ENTRY SIZE
 6133 TJPR EQU TJCM-/DSL/NCPS-1-/DSL/NPPS

** TJSC - JOB SERVICE CLASS.
 * ENTRY = 1 WORD.
 * INDEXED BY CP/PCP NUMBER.
 *
 *T 12/ SC
 * SC SERVICE CLASS OF JOB.

1SJ 276
 1SJ 277
 271L716 64
 1SJ 279
 1SJ 280
 1SJ 281
 1SJ 282
 1SJ 283
 271L716 65
 271L716 66

1 TJSCE EQU 1 ENTRY SIZE
 6042 TJSC EQU TJPR-/DSL/NCPS-1-/DSL/NPPS

1412THE

** SCJ - MAIN PROGRAM.

							1SJ	286
							1SJ	287
							1SJ	288
1	1100			ORG	PPFW		1SJ	289
2							1SJ	290
3	1100			SCJ	BSS	0	1SJ	291
4	1100	0200	4354	RJM	PRS	PRESET	1SJ	292
5	1102	1400		LDN	**		271L716	67
6				LDN	1	(INPUT FILE SCHEDULING REQUIRED)	271L716	68
7			1102	SCJA	EQU	*-1 (PP INPUT REGISTER FLAGS BYTE)	271L716	69
8	1103	0410		ZJN	SCJ1	IF INPUT FILE SCHEDULING NOT REQUIRED	271L716	70
9	1104	1400		LDN	**		271L716	71
10			1104	SCJB	EQU	*-1 (SCHEDULER CONTROL FLAGS FROM *INWL*)	1SJ	302
11	1105	1206		LPN	6		NS2134	1
12	1106	0505		NJN	SCJ1	IF SCHEDULING DISABLED OR LIMITS CHANGING	NS2134	2
13	1107	2036	2302	EXECUTE	3SB	PERFORM INPUT FILE SCHEDULING	271L716	72
14							1SJ	310
15				*		INITIALIZE/RESTORE CELLS FOR THE EJT/CM SCHEDULING FUNCTION.	1SJ	311
16							1SJ	312
17	1113	0200	2522	SCJ1	RJM	INT INITIALIZE CELLS FOR EJT/CM SCHEDULING	271L716	73
18							1SJ	314
19				*		BUILD THE FOLLOWING TABLES - *TACP*, *TJCM*, *TJEC*, *TJSC*,	1SJ	315
20				*		*TJPR*, *TTCU*, *TTUE*. CALCULATE AVAILABLE AND ROLLING CM.	284L847	4
21							1SJ	317
22	1115	0200	1642	RJM	BST	BUILD CP AND SERVICE CLASS TABLES	1SJ	318
23							1SJ	319
24				*		OBTAIN AVAILABLE CM AND EM FROM *ACML*.	271L716	74
25							271L716	75
26	1117	1422		LDK	ACML		271L716	76
27	1120	6037		CRD	AM		271L716	77
28			0	ERRNZ	AE-AM-3	CODE DEPENDS ON VALUE	271L716	78
29				*		CALCULATE AVAILABLE + ROLLING CM AND ECS.	1SJ	332
30							1SJ	333
31							1SJ	334
32	1121	3045		LDD	RM+1		1SJ	335
33	1122	3540		RAD	AM+1		1SJ	336
34	1123	1063		SHN	-14		1SJ	337
35	1124	3144		ADD	RM		1SJ	338
36	1125	3537		RAD	AM		1SJ	339
37	1126	3046		LDD	RE		1SJ	340
38	1127	3542		RAD	AE		1SJ	341
39							1SJ	342
40				*		DETERMINE IF ANY JOB AT A CP OR PCP IS REQUESTING A CM	271L716	79
41				*		OR ECS FL INCREASE. IF SO, IT MUST BE ADDRESSED BEFORE	1SJ	344
42				*		SCHEDULING ANOTHER JOB TO A CONTROL POINT.	1SJ	345
43							1SJ	346
44	1130	3063		LDD	JC		1SJ	347
45	1131	0433		ZJN	SCJ4	IF NO JOB IS REQUESTING AN FL INCREASE	1SJ	348
46							1SJ	349
47				*		THE FOLLOWING CODE IS NECESSARY TO PREVENT A DEADLOCK IN THE	1SJ	350
48				*		CASE OF SEVERAL OUTSTANDING CM FL INCREASE REQUESTS FOR JOBS	1SJ	351
49				*		OF EQUAL PRIORITY, BUT INSUFFICIENT AVAILABLE CM TO SATISFY	1SJ	352
50				*		ANY OF THE REQUESTS.	1SJ	353
51							1SJ	354
52	1132	1477		LDN	PSNI		1SJ	355
53	1133	5400	2314	STM	CFLA		1SJ	356
54	1135	5000	1151	LDM	SCJD		1SJ43	1

1137	0404		ZJN	SCJ2	IF ROLLOUT NOT INHIBITED	271L716	80		
1140	1477		LDK	PSNI	ALLOW ROLLOUT OF HIGHER PRIORITY JOBS	1SJ43	3		
1141	5400	2313	STM	CFLC		1SJ43	4		
1143	0200	2257		SCJ2	RJM	CFL	COMMIT FIELD LENGTH	271L716	81
1145	0415		ZJN	SCJ3			IF SUFFICIENT FL	271L716	82
1146	0714		MJN	SCJ3			IF ROLLOUT REQUEST REJECTED	271L716	83
1147	3411		STD	CM+1			SET CM/EM OPTION	NS22000	6
1150	2000	0000	LDC	0				NS22000	7
		1151		SCJD	EQU	*-1	(ROLLOUT INHIBITED FLAG)	NS22000	8
1152	0510		NJN	SCJ3			IF ROLLOUT INHIBITED	271L716	84
1153	3063		LDD	JC			SET CP/PCP NUMBER	271L716	85
1154	3412		STD	CM+2				NS22000	11
1155	1410		MONITOR	SFLM			REJECT FL INCREASE	NS22000	12
1160	0100	1113	LJM	SCJ1			RECYCLE	271L716	86
								NS22000	14
1162	0100	1242		SCJ3	LJM	SCJ11	EXIT	271L716	87
								1SJ	358
1164	5000	1104		SCJ4	LDM	SCJB		1SJ	359
1166	1202		LPN	2				NS2181B	1
1167	0572		NJN	SCJ3			IF EJT SCHEDULING DISABLED	271L716	88
1170	0200	2457	RJM	DDA			BUILD *TDAC* TABLE	1SJ	362
								1SJ	363
			*		SCAN EJT LOOKING FOR THE BEST SCHEDULABLE JOB. IF THE			1SJ	364
			*		SELECTED JOB IS A SUBSYSTEM, OVERLAY *3SA* WILL BE CALLED.			1SJ	365
								1SJ	366
1172	0200	3102	RJM	SFJ			SEARCH FOR SCHEDULING CANDIDATE	1SJ	367
1174	3067		LDD	EP				1SJ	368
1175	0424		ZJN	SCJ7			IF NO SCHEDULABLE JOBS FOUND	271L716	89
1176	3434		STD	E0			SET *E0* FOR FUTURE *EJA* CALLS	1SJ	370
1177	3061		LDD	SP				1SJ	371
1200	1123		LMN	DSSC				NS2181B	2
1201	0410		ZJN	SCJ5			IF DEADSTART SEQUENCING JOB WAS SELECTED	NS2181B	3
1202	5000	1104	LDM	SCJB				NS2181B	4
1204	1210		LPN	10				NS2181B	5
1205	0520		NJN	SCJ8			IF DEADSTART SEQUENCING JOB NOT COMPLETE	NS2181B	6
1206	3061		LDD	SP				NS2181B	7
1207	1107		LMN	SSSC				1SJ	372
1210	0507		NJN	SCJ6			IF SELECTED JOB IS NOT A SUBSYSTEM	271L716	90
1211	2036	2301		SCJ5	EXECUTE	3SA		1SJ	376
1215	0522		NJN	SCJ10			IF SUBSYSTEM NOT SCHEDULED	271L716	91
1216	0336		UJN	SCJ12			RESTART *1SJ*	271L716	92
								NS2181	9
1217	0200	2741		SCJ6	RJM	SCP	SELECT CONTROL POINT	271L716	93
1221	0416			SCJ7	ZJN	SCJ10	IF NO CP AVAILABLE	271L716	94
1222	0713		MJN	SCJ9			IF PCP REJECT	271L716	95
1223	0200	2257		SCJ8	RJM	CFL	COMMIT FIELD LENGTH	271L716	96
1225	0512			SCJ8	NJN	SCJ10	IF INSUFFICIENT FL	271L716	97
1226	0200	1257			RJM	ASJ	ASSIGN JOB TO CONTROL POINT	1SJ	419
1230	0200	4123			RJM	USD	UPDATE STATISTICAL DATA	NS22000	25
1232	2000	0000	LDC	0				1SJ	420
		1233		SCJC	EQU	*-1	(RECYCLE FLAG)	1SJ	421
1234	0406		ZJN	SCJ11			IF RECYCLE NOT REQUESTED	271L716	98
1235	0100	1113		SCJ9	LJM	SCJ1	RECYCLE ON THE EJT SCAN	271L716	99
								271L716	100
1237	1401			SCJ10	LDN	1	SET JOB NOT SCHEDULED	271L716	101
1240	0200	4123			RJM	USD	UPDATE STATISTICAL DATA	NS22000	27
1242	1461			SCJ11	MONITOR	DPPM	DROP PP	271L716	102

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1245	1443		LDN	JSCL	CLEAR SCHEDULER ACTIVE FLAG	1SJ	426
1246	6010		CRD	CM		1SJ	427
1247	2077 3777		LDC	-4000		1SJ	428
1251	3510		RAD	CM		1SJ	429
1252	1443		LDN	JSCL		1SJ	430
1253	6210		CWD	CM		1SJ	431
1254	0100 0257	SCJ12	LJM	PPR	EXIT TO IDLE LOOP	271L716	103

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	**				ASJ - ASSIGN JOB TO CONTROL POINT.	1SJ	435
	*					1SJ	436
	*				REQUEST CM/ECS FL; PERFORM MINIMAL CPA INITIALIZATION; STORE	1SJ	437
1	*				PRIORITY IN EJT; CALL *1AJ* IF JOB STATUS IS *PRJS*,	1SJ	438
2	*				OTHERWISE CALL *1RI*.	1SJ	439
3	*					1SJ	440
4	*				ENTRY (JM) = CM FL TO BE ASSIGNED TO JOB.	1SJ	441
5	*				(JE) = ECS FL TO BE ASSIGNED TO JOB.	1SJ	442
6	*				(EO) = EJT ORDINAL OF SELECTED JOB.	1SJ	443
7	*				(JC) = CONTROL POINT NUMBER FOR JOB ASSIGNMENT.	1SJ	444
8	*				(SP) = SERVICE CLASS OF SELECTED JOB.	1SJ	445
9	*				(TM - TM+1) = SECONDS PORTION OF REAL TIME CLOCK.	1SJ	446
10	*				(NC) = SYSTEM CONTROL POINT NUMBER.	1SJ	447
11	*					1SJ	448
12	*				EXIT (A) = 0 IF JOB WAS SCHEDULED TO THE CONTROL POINT.	1SJ	449
13	*				.NE. 0 IF SCHEDULING ATTEMPT FAILED.	1SJ	450
14	*					1SJ	451
15	*				USES JE, JM, AA - AA+4, BB - BB+4, CM - CM+4, EJ - EJ+4,	273L780	1
16	*				T1 - T5, T6, T7.	273L780	2
17	*					1SJ	454
18	*				CALLS AST, CPR, EJA, RJC, RST.	271L716	106
19	*					1SJ	456
20	*				MACROS MONITOR.	1SJ	457
21	*					1SJ	458
22						1SJ	459
23		1256	0100 1256	ASJ	SUBR ENTRY/EXIT	1SJ	460
24		1260	3063		LDD JC	1SJ	461
25		1261	2300 6000		LMC /CPS/RCPS+/CPS/ENRS SET *CCAM* OPTIONS	273L780	3
26		1263	3411		STD CM+1	1SJ	467
27		1264	3034		LDD EO SET EJT ORDINAL FOR *CCAM*	1SJ	468
28		1265	3412		STD CM+2	1SJ	469
29		1266	1452		MONITOR CCAM	1SJ	470
30		1271	3011		LDD CM+1	1SJ	471
31		1272	0563		NJN ASJX IF *CCAM* FAILED	273L780	4
32						1SJ	477
33	*				REQUEST CM.	1SJ	478
34						1SJ	479
35		1273	0200 2507		RJM EJA CALCULATE EJT ENTRY ADDRESS	273L780	5
36					ADK JSNE	271L716	108
37		1275	6050		CRD EJ	271L716	109
38		1276	1601		ADK SCHE-JSNE	271L716	110
39		1277	6020		CRD AA	271L716	111
40		1300	1602		ADK SCLE-SCHE	271L716	112
41		1301	6027		CRD BB	271L716	113
42		1302	2000 0000		LDC **	271L716	114
43				1303 ASJA	EQU *-1 (ORIGINAL JOB STATUS)	271L716	115
44		1304	3354		LMD EJ+4	271L716	116
45		1305	2200 7676		LPC 7676	271L716	117
46		1307	0512		NJN ASJ3 IF JOB/CONNECTION/SCP STATUS CHANGED	271L716	118
47		1310	3064		LDD JM	271L716	119
48		1311	0505		NJN ASJ2.1 IF CM FL ALREADY SET (NOT PCP JOB)	271L716	120
49		1312	3032		LDD BB+3 SET EM AMOUNT	271L716	121
50		1313	3465		STD JE	271L716	122
51		1314	3033		LDD BB+4 SET CM AMOUNT	271L716	123
52		1315	3464		STD JM	271L716	124
53		1316	0200 2713	ASJ2.1	RJM RST REQUEST CM STORAGE	271L716	125
54		1320	0416		ZJN ASJ5 IF FUNCTION ACCEPTED	1SJ	486

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1321	1401		ASJ3	LDN	/CPS/CCPS	RELEASE CP, CLEAR JOB ADVANCE	1SJ	487
1322	3411			STD	CM+1		1SJ	488
1323	1463			MONITOR	JACM		1SJ	489
1326	3066			LDD	NC	CHANGE ASSIGNMENT TO SYSTEM CP	273L780	6
1327	3411			STD	CM+1		1SJ	491
1330	1452			MONITOR	CCAM		1SJ	492
1333	1401			LDN	1	SET JOB NOT SCHEDULED	273L780	7
1334	0100	1256		UJP	ASJX	TERMINATE SCHEDULING ATTEMPT	273L780	8
			*			REQUEST ECS.	1SJ	496
							1SJ	497
							1SJ	498
1336	3065		ASJ5	LDD	JE		1SJ	499
1337	0416			ZJN	ASJ6	IF NO ECS REQUESTED	1SJ	500
1340	2301	0000		LMC	10000		271L716	127
1342	0200	2713		RJM	RST	REQUEST EM STORAGE	271L716	128
1344	0411			ZJN	ASJ6	IF FUNCTION ACCEPTED	1SJ	506
1345	1400		ASJ5.1	LDN	0	RELEASE CM FL	271L716	129
1346	0200	2713		RJM	RST		271L716	130
1350	2001	0000		LDC	10000	RELEASE EM FL	271L716	131
1352	0200	2713		RJM	RST		271L716	132
1354	0344			UJP	ASJ3	TERMINATE SCHEDULING ATTEMPT	271L716	133
							1SJ	512
1355	2000	0112	ASJ6	LDK	LOSL	SAVE EJT ORDINAL OF LAST JOB SCHEDULED	271L716	134
1357	6010			CRD	CM		NS2153	2
1360	3034			LDD	E0		NS2153	3
1361	3414			STD	CM+4		NS2153	4
1362	2000	0112		LDK	LOSL		NS2153	5
1364	6210			CWD	CM		NS2153	6
1365	1466			LDN	ZERL	CLEAR *TSCW* IMAGE	1SJ53	1
1366	6001			CRD	T1		1SJ53	2
1367	3061			LDD	SP		271L750	2
1370	0200	4332		RJM	RJC	CALCULATE JCB ADDRESS	271L750	3
1372	0412			ZJN	ASJ6.1	IF NO JCB FOR SERVICE CLASS	271L750	4
1373	1603			ADN	SVJT	GET CP/CM TIME SLICE	1SJ53	3
1374	6027			CRD	BB		1SJ53	4
1375	1604			ADN	CSJT-SVJT	GET SERVICE CLASS CPU PRIORITY	1SJ53	5
1376	6010			CRD	CM		271L750	6
1377	3030			LDD	BB+1	SET CONTROL POINT TIME SLICE	1SJ53	6
1400	3405			STD	T1+4		1SJ53	7
1401	3031			LDD	BB+2	SET CM TIME SLICE	1SJ53	8
1402	3402			STD	T1+1		1SJ53	9
1403	3010			LDD	CM	SAVE SERVICE CLASS CPU PRIORITY	271L750	7
1404	3406		ASJ6.1	STD	T6		271L750	8
1405	1466			LDN	ZERL		1SJ	519
1406	6027			CRD	BB	CLEAR *CWQW* IMAGE	271L750	9
1407	6010			CRD	CM	CLEAR *JCIW* IMAGE	271L750	10
1410	2000	2670		LDC	2000+LSCS*10-10	SET DEFAULT CPU PRIORITY	NS2731	1
1412	3427			STD	BB		1SJ	524
1413	2000	6000		LDC	6000	PRESET CPU SCHEDULING FLAGS FOR *1AJ/3AA*	271L750	12
1415	3430			STD	BB+1		271L750	13
1416	2000	1240		LDC	SSSC*JCBE*10B	SET PARAMETERS INDEX FOR NO JCB DEFINED	271L750	14
1420	3431			STD	BB+2		271L750	15
1421	3006			LDD	T6		271L750	16
1422	0437			ZJN	ASJ8	IF NO JCB FOR SERVICE CLASS	1SJ	527
1423	3000			LDD	T0	SET CPU SCHEDULING PARAMETERS INDEX	271L750	17
1424	1003			SHN	3		271L750	18
1425	3431			STD	BB+2		271L750	19

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1426	3061		LDD	SP		1SJ	530	
1427	1107		LMN	SSSC		1SJ	531	
1430	0522		NJN	ASJ7	IF NOT A SUBSYSTEM	1SJ	532	
1431	5000	7137	LDM	SISS		1SJ9	1	
1433	3412		STD	CM+2	SET SUBSYSTEM ID	271L750	20	
1434	2177	0031	SBK	LSSI+1		NS22000	28	
1436	0714		MJN	ASJ7	IF PSEUDO SUBSYSTEM	NS22000	29	
1437	2000	7776	LDC	MXSI	CALCULATE SUBSYSTEM INDEX	NS22000	30	
1441	5200	7137	SBM	SISS		1SJ	534	
1443	3407		STD	T7		1SJ	535	
1444	5007	5251	LDM	/3SA/TSCI,T7	SET SUBSYSTEM INITIAL CPU PRIORITY	271L750	21	
1446	0404		ZJN	ASJ7	IF CPU PRIORITY NOT SPECIFIED	1SJ	537	
1447	3406		STD	T6		271L750	22	
1450	3072		LDD	TH	SET CPU PRIORITY NOT FROM SERVICE CLASS	NS2731	2	
1451	3530		RAD	BB+1		NS2731	3	
1452	3006		ASJ7	LDD	T6	SET CPU PRIORITY IN *CWQW* IMAGE	271L750	23
1453	1003		SHN	3		271L750	24	
1454	2100	2000	ADC	2000		271L750	25	
1456	3427		STD	BB		1SJ	541	
1457	5061	6705	LDM	TEPB+1*MXJC,SP	SAVE PRIORITY IN EJT DATA BLOCK	271L716	137	
1461	5400	1531	ASJ8	STM	ASJC	271L716	138	
1463	3074		LDD	CP		1SJ	553	
1464	6220		CWD	AA	SAVE EJT SCHEDULING FIELD FOR *1RI*	1SJ	554	
1465	1621		ADN	CWQW		271L750	26	
1466	6227		CWD	BB	SET CPU PRIORITY	271L750	27	
1467	1605		ADN	JCIW-CWQW		271L750	28	
1470	6210		CWD	CM	SET SUBSYSTEM ID	271L750	29	
1471	1674		ADK	TSCW-JCIW		1SJ	557	
1472	6201		CWD	T1		1SJ	558	
1473	2000	0000	LDC	**		1SJ	559	
		1474	ASJB	EQU	*-1	(EJT ORDINAL IF ONLY NFL WILL BE ROLLED)	1SJ	560
1475	3334		LMD	E0		1SJ	561	
1476	0502		NJN	ASJ10	IF NO CHANGE NEEDED TO CM FL IN EJT ENTRY	1SJ	562	
1477	3464		STD	JM	TELL *1RI* ONLY NFL NEEDED	271L716	141	
				*	UPDATE EJT ENTRY AS FOLLOWS -	1SJ	564	
				*	SET EXECUTION SCHEDULING PRIORITY.	1SJ	565	
				*	SET CONTROL POINT NUMBER.	1SJ	566	
				*	SET ROLLIN CM FL.	1SJ	567	
						1SJ	568	
						1SJ	569	
1500	0200	2507	ASJ10	RJM	EJA	GET EJT ENTRY ADDRESS	271L716	142
1502	1601		ADK	SCHE		271L716	143	
1503	6020		CRD	AA		271L716	144	
1504	1602		ADK	SCLE-SCHE		271L716	145	
1505	6027		CRD	BB		271L716	146	
1506	3064		LDD	JM	SET CM FL	271L716	147	
1507	3433		STD	BB+4		271L716	148	
1510	3054		LDD	EJ+4	SAVE JOB STATUS	271L716	149	
1511	1276		LPN	76		271L716	150	
1512	1076		SHN	-1		271L716	151	
1513	3403		STD	T3		271L716	152	
1514	1111		LMK	PCJS		271L716	153	
1515	0513		NJN	ASJ10.1	IF NOT PCP JOB	271L716	154	
1516	3023		LDD	AA+3	SET ENTRY TIME FOR *CPR*	271L716	155	
1517	3401		STD	T1		271L716	156	
1520	3024		LDD	AA+4		271L716	157	
1521	3402		STD	T2		271L716	158	

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1522	3061			LDD	SP			271L716	159
1523	1014			SHN	14			271L716	160
1524	1101			LMK	EXQT			271L716	161
1525	0200	4241		RJM	CPR	COMPUTE SCHEDULING PRIORITY		271L716	162
1527	0303			UJN	ASJ10.2	STORE PRIORITY IN EJT		271L716	163
								271L716	164
1530	2000	0000		LDC	**	SET SCHEDULING PRIORITY		271L716	165
			1531	ASJC	EQU	*-1		271L716	166
1532	3424			ASJ10.2	STD	AA+4		271L716	167
1533	3063			LDD	JC	SET CP NUMBER		271L716	168
1534	3423			STD	AA+3			271L716	169
1535	0200	2507		RJM	EJA	UPDATE EJT ENTRY		271L716	170
1537	1601			ADK	SCHE			271L716	171
1540	6220			CWD	AA			271L716	172
1541	1602			ADK	SCLE-SCHE			271L716	173
1542	6227			CWD	BB			271L716	174
1543	1466			LDN	ZERL	CLEAR PP INPUT REGISTER IMAGE		1SJ	572
1544	6020			CRD	AA			1SJ	573
1545	3054			LDD	EJ+4			1SJ	574
1546	5003	4072		LDM	TJST,T3			271L716	175
1550	1012			SHN	21-7			242L642	39
1551	0705			MJN	ASJ11	IF PRE-INITIAL JOB STATE		242L642	40
1552	2011	3422		LDC	3RI1R			1SJ	578
1554	0100	1615		UJP	ASJ13	CALL *1RI*		NS2244	1
								1SJ	580
1556	3061		ASJ11	LDD	SP			1SJ	581
1557	1107			LMN	SSSC			1SJ	582
1560	0532			NJN	ASJ12	IF NOT SUBSYSTEM		1SJ	583
1561	5000	7137		LDM	SISS			NS2232	1
1563	2177	0032		ADC	-LSSI			NS2232	2
1565	0725			MJN	ASJ12	IF SUBSYSTEM NOT IN *SSAT*		NS2232	3
1566	2000	7750		LDC	PLSI	CHECK FOR CYBIS		NS2746	1
1570	5300	7137		LMM	SISS			NS2244	3
1572	0510			NJN	ASJ11.1	IF NOT CYBIS		NS2746	2
1573	5000	7137		LDM	SISS	FETCH *SSAT* ENTRY (EJT ORDINAL)		NS2244	5
1575	2104	0000		ADC	/3SA/FEAF*10000			NS2244	6
1577	0200	4726		RJM	/3SA/AST			NS2244	7
1601	0511			NJN	ASJ12	IF ALREADY ACTIVE		NS2244	8
1602	3034		ASJ11.1	LDD	E0			NS2244	9
1603	3401			STD	T1			1SJ	585
1604	5000	7137		LDM	SISS			1SJ	586
1606	2106	0000		ADC	/3SA/SEAF*10000			1SJ	587
1610	0200	4726		RJM	/3SA/AST	STORE EJT ORDINAL IN SSAT TABLE		1SJ	588
1612	3622		ASJ12	AOD	AA+2	SET *1AJ* FUNCTION 1		1SJ	589
1613	2012	3401		LDC	3RJ1A	CALL *1AJ*		1SJ	590
1615	3420		ASJ13	STD	AA			1SJ	591
1616	1071			SHN	-6			1SJ	592
1617	1377			SCN	77			1SJ	593
1620	3363			LMD	JC			1SJ	594
1621	3421			STD	AA+1			1SJ	595
1622	3077			LDD	MA	WRITE *1RI*/*1AJ* CALL TO MESSAGE BUFFER		1SJ	596
1623	6220			CWD	AA			1SJ	597
1624	1400			LDN	0	CLEAR PRIORITY REQUEST FLAG		1SJ	598
1625	3411			STD	CM+1			1SJ	599
1626	2000	0100		MONITOR	RPPM	CALL *1RI*/*1AJ*		1SJ	600
1632	3066			LDD	NC	CHANGE ASSIGNMENT BACK TO SYSTEM CP		273L780	9
1633	3411			STD	CM+1			1SJ	602

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1634	1452		MONITOR	CCAM		1SJ	605	
			LDN	0	SET JOB SCHEDULED	273L780	10	
1637	0100 1256		LJM	ASJX	RETURN	273L780	11	
** BST - BUILD SCHEDULING TABLES.								
						1SJ	626	
						1SJ	627	
					BUILD SCHEDULING TABLES AND CHECK FOR JOBS HAVING FL INCREASE	1SJ	628	
					REQUESTS OUTSTANDING. IF ANY ARE FOUND, SELECT THE HIGHEST	1SJ	629	
					PRIORITY ONE FOR SCHEDULING.	1SJ	630	
						1SJ	631	
					ENTRY (JC) = 0.	1SJ	632	
					(JP) = 0.	271L716	177	
					(RM - RM+1) = 0.	1SJ	633	
					(RE) = 0.	1SJ	634	
						1SJ	635	
					EXIT (JC) = CP NUMBER OF HIGHEST PRIORITY JOB REQUESTING AN	1SJ	636	
					FL INCREASE.	1SJ	637	
					= 0 IF NO OUTSTANDING FL INCREASE REQUESTS.	1SJ	638	
						1SJ	639	
					USES CS, EO, EP, ES, JC, JE, JM, JP, RE, SC, SP, TE, TP,	271L716	178	
					AA - AA+4, BB - BB+4, CM - CM+4, EJ - EJ+4, RM - RM+1,	271L716	179	
					T0 - T6.	271L716	180	
						1SJ	643	
					CALLS CCA, CCP, CPR, EJA.	273L780	13	
						1SJ	645	
						1SJ	646	
1641	0100 1641		BST	SUBR	ENTRY/EXIT	1SJ	647	
						1SJ	648	
					INITIALIZE *TTCU* AND *TTUE* TABLES.	284L847	5	
						1SJ	650	
1643	1422		LDN	MXJC-1		1SJ	651	
1644	3401		STD	T1		1SJ	652	
1645	1400		BST1	LDN	0	1SJ	653	
1646	5401 5353		STM	TTCU,T1		1SJ	654	
1650	5401 5376		STM	TTCU+1*MXJC,T1		1SJ	655	
1652	5401 5421		STM	TTUE,T1		284L847	6	
1654	3701		SOD	T1	DECREMENT INDEX	1SJ	657	
1655	0667		PJN	BST1	IF NOT FINISHED	1SJ	658	
1656	2000 6407		LDC	TACP	SET END OF *TACP* TABLE	1SJ	659	
1660	3436		STD	TE		1SJ	660	
1661	1400		LDN	0		1SJ	661	
1662	5400 6406		STM	TACP-1	MARK START OF *TACP* TABLE	1SJ	662	
1664	4436		STI	TE	MARK END OF *TACP* TABLE	1SJ	663	
1665	3443		STD	TP	INITIALIZE CP/PCP NUMBER	271L716	184	
						1SJ	684	
					SCAN CONTROL POINT AREAS CALCULATING AVAILABLE CM AND ECS.	1SJ	685	
					CHECK FOR OUTSTANDING FL INCREASE REQUESTS.	1SJ	686	
						1SJ	687	
1666	3643		BST2	AOD	TP	ADVANCE CP/PCP NUMBER	271L716	185
1667	3366			LMD	NC		271L716	186
1670	0475			ZJN	BST2	IF SYSTEM CONTROL POINT	271L716	187
1671	3366			LMD	NC		271L716	188
1672	2300 0000			LMC	**		271L716	189
		1673	BSTB	EQU	*-1		271L716	190

1674	0444		ZJP	BSTX	IF END OF SCAN	271L716	191	
1675	3043		LDD	TP	SET CP/PCP ADDRESS	273L780	14	
1676	0200	2223	RJM	CCA		273L780	15	
1700	1623		ADK	FLSW	READ CM CONTROL WORD OF CURRENT CP/PCP	273L780	16	
1701	6010		CRD	CM		1SJ	696	
1702	1602		ADN	ECSW-FLSW	READ EM CONTROL WORD OF CURRENT CP/PCP	271L716	193	
1703	6000		CRD	T0		1SJ	698	
			*		STORE CP/PCP *TP* CM FL IN *TJCM* TABLE.	271L716	194	
						271L716	195	
1704	3014		LDD	CM+4		1SJ	732	
1705	3110		ADD	CM	NFL	1SJ	733	
1706	5443	6223	STM	TJCM-1,TP		1SJ	734	
1710	3405		STD	T5		1SJ	735	
						1SJ	736	
						1SJ	737	
			*		STORE CONTROL POINT *TP* ECS FL IN *TJEC* TABLE.	1SJ	746	
						1SJ	747	
						1SJ	748	
1711	3004		LDD	T0+4		1SJ	749	
1712	5443	6314	STM	TJEC-1,TP		1SJ	750	
1714	3406		STD	T6		1SJ	751	
						1SJ	752	
			*		CHECK FOR AVAILABLE CONTROL POINT.	1SJ	753	
						1SJ	754	
1715	3043		LDD	TP	SET CP/PCP ADDRESS	273L780	17	
1716	0200	2223	RJM	CCA		273L780	18	
1720	1626		ADK	JCIW		273L780	19	
1721	6010		CRD	CM		1SJ	758	
1722	1644		ADN	TFSW-JCIW		1SJ	759	
1723	6050		CRD	EJ		1SJ	760	
1724	3050		LDD	EJ		1SJ	761	
1725	0517		NJN	BST6	IF CP/PCP IS OCCUPIED	271L716	197	
1726	3043		LDD	TP		271L716	198	
1727	3266		SBD	NC		271L716	199	
1730	0612		PJN	BST5	IF PCP	271L716	200	
1731	5000	2773	LDM	SCPA		271L716	201	
1733	0404		ZJN	BST4	IF NO FREE CP YET SET	271L716	202	
1734	0200	2234	RJM	CCP		271L716	203	
1736	0504		NJN	BST5	IF CURRENT CP IS NEITHER FIRST NOR LAST	271L716	204	
1737	3043		BST4	LDD	TP	SAVE NUMBER OF FREE CONTROL POINT	271L716	205
1740	5400	2773	STM	SCPA		271L716	206	
1742	0100	1666	BST5	LJM	BST2	CONTINUE CONTROL POINT SCAN	1SJ	764
						1SJ	765	
1744	3434		BST6	STD	E0	SAVE EJT ORDINAL	1SJ	766
1745	0200	2507	RJM	EJA		CALCULATE EJT ENTRY ADDRESS	1SJ	767
			ADK	JSNE			1SJ	768
1747	6050		CRD	EJ			1SJ	769
1750	1601		ADN	SCHE-JSNE			1SJ	770
1751	6020		CRD	AA			1SJ	771
1752	1602		ADN	SCLE-SCHE			1SJ	772
1753	6027		CRD	BB			1SJ	773
1754	3027		LDD	BB	GET SERVICE CLASS AND FORCED ROLL FLAGS	1SJ	778	
1755	1014		SHN	14		1SJ	779	
1756	5443	6041	STM	TJSC-1,TP		1SJ	780	
1760	3441		STD	SC		1SJ	781	
1761	1001		SHN	1		1SJ	782	
1762	0603		PJN	BST7	IF NOT FORCED ROLLIN	1SJ	783	

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1763	1401		LDN	1	SET NO ROLLOUT FLAG	1SJ	784
1764	3412		STD	CM+2		1SJ	785
1765	3024	BST7	LDD	AA+4	SET CP JOB SCHEDULING PRIORITY	1SJ52	2
1766	5443	6132	STM	TJPR-1,TP		1SJ	787
1770	3011		LDD	CM+1	CHECK *CPUPFM* ACTIVE	NS2542	1
1771	1210		LPN	10		NS2542	2
1772	0505		NJN	BST8	IF *CPUPFM* ACTIVE	NS2542	3
1773	3013		LDD	CM+3	SET/CLEAR NO ROLLOUT FLAG	1SJ	788
1774	2200	1000	LPC	1000	MASK *DIS* FLAG	1SJ	789
1776	3112		ADD	CM+2		1SJ	790
1777	5400	2157	STM	BSTA		1SJ	791
2001	3054		LDD	EJ+4		1SJ38	1
2002	1276		LPN	76		1SJ38	2
2003	1102		LMN	EXJS*2		1SJ38	3
2004	0417		ZJN	BST8.1	IF JOB IS AT A CP	271L716	207
2005	1120		LMK	PCJS*2&EXJS*2		271L716	208
2006	0527		NJN	BST8.2	IF NOT A PCP JOB	271L716	209
2007	3023		LDD	AA+3	SET ENTRY TIME FOR *CPR*	1SJ52	3
2010	3401		STD	T1		1SJ52	4
2011	3024		LDD	AA+4		1SJ52	5
2012	3402		STD	T2		1SJ52	6
2013	3041		LDD	SC		1SJ52	7
2014	1014		SHN	14		1SJ52	8
2015	1101		LMK	EXQT		1SJ52	9
2016	0200	4241	RJM	CPR	COMPUTE SCHEDULING PRIORITY	1SJ52	10
2020	5443	6132	STM	TJPR-1,TP		1SJ52	11
2022	1400		LDN	0		1SJ52	12
						1SJ	792
			*		CHECK FOR ROLLOUT ACTIVITY AT CP/PCP. ACCUMULATE CM	271L716	210
			*		AND ECS FL ASSIGNED TO THE JOB IF IT IS ROLLING OUT.	1SJ	794
						1SJ	795
2023	3454	BST8.1	STD	EJ+4		271L716	211
2024	3043		LDD	TP	SET CP/PCP ADDRESS	273L780	20
2025	0200	2223	RJM	CCA		273L780	21
2027	1620		ADK	STSW		273L780	22
2030	6010		CRD	CM		1SJ	799
2031	1645		ADN	FLIW-STSW		1SJ	800
2032	6020		CRD	AA		1SJ	801
2033	3012		LDD	CM+2		1SJ	802
2034	1021		SHN	21-0		271L716	213
2035	0630	BST8.2	PJN	BST9	IF JOB NOT ROLLING OUT	271L716	214
2036	3043		LDD	TP		271L716	215
2037	3266		SBD	NC		271L716	216
2040	0612		PJN	BST8.4	IF JOB AT PCP	271L716	217
2041	5000	2776	LDM	SCPB		271L716	218
2043	0404		ZJN	BST8.3	IF NO ROLLING CP YET SET	271L716	219
2044	0200	2234	RJM	CCP		271L716	220
2046	0504		NJN	BST8.4	IF CURRENT CP NEITHER FIRST NOR LAST	271L716	221
2047	3043	BST8.3	LDD	TP	SAVE NUMBER OF ROLLING CP	271L716	222
2050	5400	2776	STM	SCPB		271L716	223
2052	3012	BST8.4	LDD	CM+2		271L716	224
2053	1012		SHN	21-7		271L716	225
2054	0707		MJN	BST8.5	IF PSEUDO-ROLLOUT IN PROGRESS	271L716	226
2055	3005		LDD	T5	ACCUMULATE ROLLING CM	271L716	227
2056	3545		RAD	RM+1		1SJ	807
2057	1063		SHN	-14		1SJ	808
2060	3544		RAD	RM		1SJ	809

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2061	3006		LDD	T6	ACCUMULATE ROLLING ECS	1SJ	810
2062	3546		RAD	RE		1SJ	811
2063	0100 1666	BST8.5	LJM	BST2	CONTINUE CP/PCP SCAN	271L716	228
						1SJ	813
		*			JOB IS NOT ROLLING OUT. CHECK FOR AN OUTSTANDING FL INCREASE	1SJ	814
		*			REQUEST. IF ONE IS FOUND AT THIS CONTROL POINT, SEE IF THE	1SJ	815
		*			JOB-S SCHEDULING PRIORITY IS SUFFICIENTLY HIGH TO MAKE THE	1SJ	816
		*			JOB THE BEST SCHEDULING CANDIDATE FOUND SO FAR.	1SJ	817
						1SJ	818
2065	3041	BST9	LDD	SC		1SJ	819
2066	1723		SBN	MXJC		1SJ	820
2067	0612		PJN	BST10	IF NO JCB FOR THIS SERVICE CLASS	1SJ	821
2070	3005		LDD	T5	ACCUMULATE CM ASSIGNED TO SERVICE CLASS	1SJ	822
2071	5541 5376		RAM	TTCU+1*MXJC,SC		1SJ	823
2073	1063		SHN	-14		1SJ	824
2074	5541 5353		RAM	TTCU,SC		1SJ	825
2076	3006		LDD	T6	ACCUMULATE ECS ASSIGNED TO SERVICE CLASS	1SJ	826
2077	5541 5421		RAM	TTUE,SC		284L847	7
2101	3054	BST10	LDD	EJ+4		1SJ38	7
2102	0560		NJN	BST8.5	IF JOB IS ROLLING IN	271L716	229
2103	5043 6132		LDM	TJPR-1,TP		1SJ38	9
2105	3262		SBD	JP		1SJ	831
2106	0722		MJN	BST12	IF CP HAS LOWER PRIORITY THAN CURRENT HIGH	1SJ	832
2107	3024		LDD	AA+4		1SJ	833
2110	0414		ZJN	BST11	IF NO CM FL INCREASE REQUESTED	1SJ	834
2111	3021		LDD	AA+1		1SJ	835
2112	1021		SHN	21-0		1SJ	836
2113	0715		MJN	BST12	IF REQUEST WAS ALREADY REJECTED	1SJ	837
2114	3024		LDD	AA+4		1SJ	838
2115	3205		SBD	T5		1SJ	839
2116	0406		ZJN	BST11	IF CM ALREADY ASSIGNED	271L716	230
2117	0705		MJN	BST11	IF CM ALREADY ASSIGNED	1SJ	841
						1SJ	842
		*			THIS CONTROL POINT IS THE BEST SCHEDULING CANDIDATE FOUND SO	1SJ	843
		*			FAR. SAVE SCHEDULING INFORMATION.	1SJ	844
						1SJ	845
2120	3464		STD	JM		1SJ	846
2121	1400		LDN	0	CLEAR ECS REQUIREMENT	1SJ	847
2122	3465		STD	JE		1SJ	848
2123	0315		UJN	BST13	GO FINISH SAVING SCHEDULING INFORMATION	1SJ	853
						1SJ	854
2124	3023	BST11	LDD	AA+3		1SJ	855
2125	0435		ZJN	BST14.1	IF NO ECS FL INCREASE REQUESTED	1SJ19	1
2126	3021		LDD	AA+1		1SJ	857
2127	1020		SHN	21-1		1SJ	858
2130	0732	BST12	MJN	BST14.1	IF REQUEST WAS ALREADY REJECTED	1SJ19	2
2131	3023		LDD	AA+3		1SJ	860
2132	3206		SBD	T6		1SJ	861
2133	0427		ZJN	BST14.1	IF ECS ALREADY ASSIGNED	1SJ19	3
2134	0726		MJN	BST14.1	IF ECS ALREADY ASSIGNED	1SJ19	4
						1SJ	864
						1SJ	865
		*			THIS CONTROL POINT IS THE BEST SCHEDULING CANDIDATE SO	1SJ	866
		*			FAR. SAVE SCHEDULING INFORMATION.	1SJ	867
						1SJ	868
2135	3465		STD	JE		1SJ	869
2136	1400		LDN	0	CLEAR CM REQUIREMENT	1SJ	870

2137	3464			STD	JM			1SJ	871
2140	1500		BST13	LCN	0	PREVENT SERVICE CLASS ECS LIMIT		1SJ32	1
2141	3447			STD	ES			1SJ	873
2142	3460			STD	CS+1	PREVENT SERVICE CLASS CM LIMIT		1SJ32	2
2143	1437			LDN	37			1SJ32	3
2144	3457			STD	CS			1SJ32	4
2145	5043	6132		LDM	TJPR-1,TP	SAVE SCHEDULING PRIORITY		1SJ32	5
2147	3462			STD	JP			1SJ	875
2150	3043			LDD	TP	SAVE CP/PCP NUMBER		271L716	231
2151	3463			STD	JC			1SJ	877
2152	3034			LDD	E0	SAVE EJT ORDINAL		1SJ	878
2153	3467			STD	EP			1SJ	879
2154	3041			LDD	SC	SAVE SERVICE CLASS		1SJ	880
2155	3461			STD	SP			1SJ	881
2156	2000	0000	BST14	LDC	**			1SJ	882
			2157	BSTA	EQU	*-1	(NO ROLLOUT FLAG)	1SJ	883
2160	5400	1151		STM	SCJD	(SET/CLEAR NO REJECT FLAG)		NS2072	4
2162	5000	2157	BST14.1	LDM	BSTA			1SJ19	5
2164	0532			NJN	BST18	IF ROLLOUT MUST NOT OCCUR		1SJ	884
								1SJ	885
			*			BUILD *TACP* ENTRY FOR THIS CONTROL POINT.		1SJ	886
								1SJ	887
2165	2000	6406		LDC	TACP-1	SET START OF *TACP* TABLE		1SJ	888
2167	3401			STD	T1			1SJ	889
2170	3601		BST15	AOD	T1	INCREMENT *TACP* INDEX		1SJ	890
2171	4001			LDI	T1			1SJ	891
2172	0417			ZJN	BST17	IF END OF *TACP* TABLE		1SJ	892
2173	3402			STD	T2			1SJ	893
2174	5002	6132		LDM	TJPR-1,T2			1SJ	894
2176	5243	6132		SBM	TJPR-1,TP			1SJ	895
2200	0667			PJN	BST15	IF PRIORITY OF *TP* .LE. *TACP* ENTRY		1SJ	896
								1SJ	897
			*			MOVE ALL *TACP* ENTRIES THAT ARE BEYOND CURRENT POSITION		1SJ	898
			*			ONE SLOT TOWARD THE END OF THE *TACP* TABLE.		1SJ	899
								1SJ	900
2201	3036			LDD	TE			1SJ	901
2202	3402			STD	T2			1SJ	902
2203	5002	7776	BST16	LDM	-1,T2			1SJ	903
2205	4402			STI	T2			1SJ	904
2206	3702			SOD	T2			1SJ	905
2207	3301			LMD	T1			1SJ	906
2210	0572			NJN	BST16	IF MOVE NOT COMPLETE		1SJ	907
								1SJ	908
			*			ALL ENTRIES OF LOWER PRIORITY HAVE BEEN MOVED ONE SLOT		1SJ	909
			*			TOWARD END OF *TACP* TABLE. STORE CP/PCP NUMBER IN		271L716	232
			*			VACATED *TACP* ENTRY.		1SJ	911
								1SJ	912
2211	3043		BST17	LDD	TP			1SJ	913
2212	4401			STI	T1			1SJ	914
2213	3636			AOD	TE	ADVANCE END OF *TACP* TABLE POINTER		1SJ	915
2214	1400			LDN	0	MARK END OF *TACP* TABLE		1SJ	916
2215	4436			STI	TE			1SJ	917
2216	0100	1666	BST18	LJM	BST2	CONTINUE CP/PCP SCAN		271L716	233

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	**				CFL - COMMIT FIELD LENGTH.	1SJ	920	
	*					1SJ	921	
	*				SCAN THE *TACP* TABLE IN AN ATTEMPT TO FIND ENOUGH CM/ECS	1SJ	922	
	*				ASSIGNED TO LOWER PRIORITY JOBS TO ACCOMODATE THE JOB	1SJ	923	
	*				SELECTED FOR SCHEDULING. REQUEST ROLLOUT FOR ONLY AS MANY	271L716	249	
	*				SUCH JOBS AS NECESSARY.	1SJ	925	
	*					1SJ	926	
	*				ENTRY (TE) = LWA OF *TACP* TABLE.	1SJ	927	
	*				(AM - AM+1) = AVAILABLE + ROLLING CM.	1SJ	928	
	*				(AE) = AVAILABLE + ROLLING ECS.	1SJ	929	
	*				(JC) = CP NUMBER OF JOB REQUESTING FL INCREASE	1SJ13	1	
	*				(IF ANY).	1SJ13	2	
	*				(JP) = SCHEDULING PRIORITY OF SELECTED JOB.	1SJ	930	
	*				(JM) = CM FL REQUIRED BY SELECTED JOB.	1SJ	931	
	*				(JE) = ECS FL REQUIRED BY SELECTED JOB.	1SJ	932	
	*				(SP) = SERVICE CLASS OF SELECTED JOB.	1SJ	933	
	*				(CS - CS+1) = EXCESS CM OF SERVICE CLASS.	1SJ	934	
	*				(ES) = EXCESS ECS OF SERVICE CLASS.	1SJ	935	
	*					1SJ	936	
	*				EXIT (A) = 0 IF SUFFICIENT CM/ECS AFTER ROLLOUTS.	1SJ	937	
	*				= 1 IF INSUFFICIENT CM.	1SJ	938	
	*				= 2 IF INSUFFICIENT ECS.	1SJ	939	
	*				.LT. 0 IF ROLLOUT REQUEST WAS REJECTED.	1SJ	940	
	*					1SJ	941	
	*				USES T1, T3 - T7, CM - CM+4 TP.	1SJ	942	
	*					1SJ	943	
	*				CALLS IRR.	1SJ	944	
	*					1SJ	945	
	*				REQUEST ROLLOUT FOR ANY JOB WHOSE ROLLOUT REQUEST BIT (BIT	1SJ	946	
	*				10D) IS SET IN ITS *TACP* ENTRY.	1SJ	947	
						1SJ	948	
						1SJ	949	
2242		3643	CFL11	AOD	TP	INCREMENT *TACP* POINTER	271L716	250
2243		4043		LDI	TP		1SJ	954
2244		0412		ZJN	CFLX	IF *TACP* SCAN COMPLETE	1SJ	955
2245		1007		SHN	21-12		1SJ	956
2246		0673		PJN	CFL11	IF ROLLOUT REQUEST BIT CLEAR	271L716	251
2247		1070		SHN	12-21	GET CP/PCP NUMBER	271L716	252
2250		2200 0177		LPC	177		271L716	253
				ERRNZ	/CPS/ROSR	CODE DEPENDS ON VALUE	271L716	254
2252		0200 2621	0	RJM	IRR	ISSUE *ROCM*	1SJ	960
2254		0465		ZJN	CFL11	IF ROLLOUT REQUEST WAS ACCEPTED	1SJ	961
2255		1500		LCN	0	SET RETURN STATUS	1SJ	962
							1SJ	963
2256		0100 2256	CFL	SUBR		ENTRY/EXIT	1SJ	964
2260		3037		LDD	AM		NS22000	31
2261		1014		SHN	14		NS22000	32
2262		3340		LMD	AM+1		NS22000	33
2263		3264		SBD	JM		NS22000	34
2264		1056		SHN	-21		NS22000	35
2265		0505		NJN	CFL0	IF INSUFFICIENT CM	NS22000	36
2266		3042		LDD	AE		NS22000	37
2267		3265		SBD	JE		NS22000	38
2270		1056		SHN	-21		NS22000	39
2271		0464		ZJN	CFLX	IF SUFFICIENT EM	NS22000	40
2272		3036	CFL0	LDD	TE	INITIALIZE *TACP* POINTER	NS22000	41
2273		3443		STD	TP		1SJ	966

2274	3037		LDD	AM	INITIALIZE CM ACCUMULATOR	1SJ	967
2275	3405		STD	T5		1SJ	968
2276	3040		LDD	AM+1		1SJ	969
2277	3406		STD	T6		1SJ	970
2300	3042		LDD	AE	INITIALIZE ECS ACCUMULATOR	1SJ	971
2301	3407		STD	T7		1SJ	972
						1SJ	973
		*			ACCUMULATE CM AND ECS ASSIGNED TO LOWER PRIORITY JOBS. SET	1SJ	974
		*			THE REQUEST ROLLOUT BIT IN THE *TACP* ENTRY OF EACH LOWER	1SJ	975
		*			PRIORITY JOB.	1SJ	976
						1SJ	977
2302	3743	CFL1	SOD	TP	DECREMENT *TACP* POINTER	1SJ	978
2303	4043		LDI	TP		1SJ	979
2304	0427		ZJN	CFL2	IF END OF *TACP* TABLE REACHED	1SJ	980
2305	3401		STD	T1		1SJ	984
2306	3363		LMD	JC		1SJ13	3
2307	0472		ZJN	CFL1	IF CP SELECTED FOR FL INCREASE	1SJ13	4
2310	3062		LDD	JP	COMPARE SCHEDULING PRIORITIES	1SJ	985
2311	5201 6132		SBM	TJPR-1,T1		1SJ	986
2313	0766		MJN	CFL1	IF SELECTED JOB HAS LOWER PRIORITY	1SJ	987
		*	PSN		(LOCKED IN JOB REQUIRES FL INCREASE)	1SJ43	6
		2313	CFLC	EQU	*-1	1SJ43	7
2314	0465		ZJN	CFL1	IF PRIORITIES ARE EQUAL	1SJ	988
		*	PSN		(IF SELECTED JOB WANTS FL INCREASE)	1SJ	989
		2314	CFLA	EQU	*-1	1SJ	990
2315	2000 2000		LDC	2000		1SJ	991
2317	4543		RAI	TP	SET ROLLOUT FLAG IN *TACP* ENTRY	1SJ	992
2320	1006		SHN	21-13		271L716	255
2321	0760		MJN	CFL1	IF ROLLOUT IN PROGRESS	271L716	256
2322	5001 6223		LDM	TJCM-1,T1	ACCUMULATE CM OF ROLLABLE JOB	1SJ	993
2324	3506		RAD	T6		1SJ	994
2325	1063		SHN	-14		1SJ	995
2326	3505		RAD	T5		1SJ	996
2327	5001 6314		LDM	TJEC-1,T1	ACCUMULATE ECS OF ROLLABLE JOB	1SJ	997
2331	3507		RAD	T7		1SJ	998
2332	0347		UJN	CFL1	CONTINUE *TACP* TABLE SCAN	1SJ	999
						1SJ	1000
2333	3005	CFL2	LDD	T5		1SJ	1001
2334	1014		SHN	14		1SJ	1002
2335	3306		LMD	T6		1SJ	1003
2336	3264		SBD	JM		1SJ	1004
2337	0604		PJN	CFL4	IF ENOUGH CM CAN BE OBTAINED VIA ROLLOUT	1SJ	1005
2340	1401		LDN	1	INDICATE INSUFFICIENT CM TO *SCJ*	1SJ	1006
2341	0100 2256	CFL3	LJM	CFLX	RETURN	1SJ	1007
						1SJ	1008
2343	3406	CFL4	STD	T6	SAVE EXCESS CM AMOUNT	1SJ	1009
2344	1063		SHN	-14		1SJ	1010
2345	3405		STD	T5		1SJ	1011
2346	3007		LDD	T7		1SJ	1012
2347	3265		SBD	JE		1SJ	1013
2350	0603		PJN	CFL5	IF ENOUGH ECS CAN BE OBTAINED VIA ROLLOUT	1SJ	1014
2351	1402		LDN	2	INDICATE INSUFFICIENT ECS TO *SCJ*	1SJ	1015
2352	0366		UJN	CFL3	RETURN	1SJ	1016
						1SJ	1017
2353	3407	CFL5	STD	T7	SAVE EXCESS ECS AMOUNT	1SJ	1018
2354	3105		ADD	T5		1SJ	1019
2355	3106		ADD	T6		1SJ	1020

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2356	0406		ZJN	CFL7	IF NO EXCESS CM/ECS	1SJ	1021
						1SJ	1022
			*		DISQUALIFY AS MANY JOBS AS POSSIBLE FROM ROLLOUT.	1SJ	1023
						1SJ	1024
2357	3043		LDD	TP	INITIALIZE *TACP* TABLE POINTER	1SJ	1025
2360	3404		STD	T4		1SJ	1026
2361	3604		CFL6	AOD	T4 INCREMENT *TACP* POINTER	1SJ	1027
2362	4004		LDI	T4		1SJ	1028
2363	0503		NJN	CFL8	IF NOT END OF *TACP* TABLE	1SJ	1029
2364	0100	2242	CFL7	LJM	CFL11 ROLLOUT JOBS	271L716	257
						1SJ	1031
2366	1007		CFL8	SHN	21-12	1SJ	1032
2367	0671		PJN	CFL6	IF JOB IS NOT A ROLLOUT CANDIDATE	1SJ	1033
2370	1070		SHN	12-21	GET CP/PCP NUMBER	271L716	258
2371	2200	0177	LPC	177		271L716	259
2373	3403		STD	T3		1SJ	1036
2374	3005		LDD	T5		1SJ	1037
2375	1014		SHN	14		1SJ	1038
2376	3306		LMD	T6		1SJ	1039
2377	5203	6223	SBM	TJCM-1,T3		1SJ	1040
2401	0757		CFL9	MJN	CFL6 IF JOB-S CM FL TOO BIG TO REMAIN AT CP/PCP	271L716	260
2402	3411		STD	CM+1	SAVE CM AMOUNT	271L716	261
2403	1063		SHN	-14		1SJ	1043
2404	3410		STD	CM		1SJ	1044
2405	3007		LDD	T7		1SJ	1045
2406	5203	6314	SBM	TJEC-1,T3		1SJ	1046
2410	0750		MJN	CFL6	IF JOB-S EM FL TOO BIG TO REMAIN AT CP/PCP	271L716	262
2411	3412		STD	CM+2	SAVE EM AMOUNT	271L716	263
2412	5003	6041	LDM	TJSC-1,T3		1SJ19A	1
2414	3361		LMD	SP		1SJ19A	2
2415	0523		NJN	CFL10	IF DIFFERENT SERVICE CLASSES	1SJ19A	3
2416	3057		LDD	CS		1SJ	1052
2417	1014		SHN	14		1SJ	1053
2420	3360		LMD	CS+1		1SJ	1054
2421	5203	6223	SBM	TJCM-1,T3		1SJ	1055
2423	0755		MJN	CFL9	IF MAXIMUM CM FOR SERVICE CLASS EXCEEDED	1SJ	1056
2424	3414		STD	CM+4	SAVE NEW EXCESS CM	1SJ	1057
2425	1063		SHN	-14		1SJ	1058
2426	3413		STD	CM+3		1SJ	1059
2427	3047		LDD	ES		1SJ	1060
2430	5203	6314	SBM	TJEC-1,T3		1SJ	1061
2432	0746		MJN	CFL9	IF MAXIMUM ECS FOR SERVICE CLASS EXCEEDED	1SJ	1062
2433	3447		STD	ES	SAVE NEW EXCESS ECS	1SJ	1063
2434	3013		LDD	CM+3	SAVE NEW EXCESS CM	1SJ	1064
2435	3457		STD	CS		1SJ	1065
2436	3014		LDD	CM+4		1SJ	1066
2437	3460		STD	CS+1		1SJ	1067
2440	3010		CFL10	LDD	CM UPDATE REMAINING CM AMOUNT	1SJ19A	4
2441	3405		STD	T5		1SJ	1069
2442	3011		LDD	CM+1		1SJ	1070
2443	3406		STD	T6		1SJ	1071
2444	3012		LDD	CM+2	UPDATE REMAINING ECS AMOUNT	1SJ	1072
2445	3407		STD	T7		1SJ	1073
2446	2077	5777	LDC	-2000	CLEAR ROLLOUT BIT IN *TACP* ENTRY	1SJ	1074
2450	4504		RAI	T4		1SJ	1075
2451	0100	2361	LJM	CFL6	CONTINUE *TACP* SCAN	1SJ	1076
						1SJ	1077

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2453			CFLB	BSS	0			1SJ	1078
L 2314				LOC	CFLA			1SJ	1079
L 2314	0465			ZJN	CFL1	IF PRIORITIES ARE EQUAL		1SJ	1080
2454				LOC	*0			1SJ	1081
			**			DDA - DETERMINE DEVICE ACTIVITY.		1SJ	1083
			*					1SJ	1084
			*			BUILD *TDAC* TABLE.		1SJ	1085
			*					1SJ	1086
			*			USES T1 - T5, CM - CM+4.		1SJ	1087
			*					NS22000	42
			*			MACROS SFA.		NS22000	43
								1SJ	1088
								1SJ	1089
2454	5400	4354	DDA2	STM	TDAC+1	CLEAR PCP ACTIVITY		271L716	264
								271L716	265
2456	0100	2456	DDA	SUBR		ENTRY/EXIT		1SJ	1090
2460	1472			LDN	ESTP			1SJ	1091
2461	6001			CRD	T1			1SJ	1092
2462	1404			LDN	NOPE-1	INITIALIZE EST ORDINAL FOR SEARCH		NS22000	44
2463	3401			STD	T1			1SJ	1094
2464	3601		DDA1	AOD	T1	INCREMENT EST ORDINAL		1SJ	1095
2465	3304			LMD	T1+3			NS22000	45
2466	0465			ZJN	DDA2	IF END OF EST SCAN		271L716	266
2467	3001			SFA	EST,T1			NS22000	47
				ADK	EQDE			NS22000	48
2472	6010			CRD	CM			1SJ	1097
2473	3010			LDD	CM			1SJ	1100
2474	1006			SHN	21-13			1SJ	1101
2475	0666			PJN	DDA1	IF NOT MASS STORAGE		1SJ	1102
2476	3014			LDD	CM+4	READ MST ENTRY		1SJ	1103
2477	1003			SHN	3			1SJ	1104
2500	1612			ADN	DALL			1SJ	1105
2501	6010			CRD	CM			1SJ	1106
2502	3010			LDD	CM	SAVE DEVICE ACTIVITY IN *TDAC* TABLE		1SJ	1107
2503	5401	4353		STM	TDAC,T1			1SJ	1108
2505	0356			UJN	DDA1	CONTINUE EST SCAN		1SJ	1109
			**			EJA - CALCULATE EJT ENTRY ADDRESS.		1SJ	1111
			*					1SJ	1112
			*			ENTRY (EO) = EJT ORDINAL.		1SJ	1113
			*					1SJ	1114
			*			EXIT (A) = EJT ENTRY ADDRESS.		1SJ	1115
			*					1SJ	1116
			*			MACROS CFI.		1SJ	1117
								1SJ	1118
								1SJ	1119
2506	0100	2506	EJA	SUBR		ENTRY/EXIT		1SJ	1120
2510	3034			CFI	EJT,E0	CALCULATE ENTRY OFFSET		1SJ	1121
2512	2100	0000		ADC	**			1SJ	1122
		2513	EJAA	EQU	*-1	(EJT FWA)		1SJ	1123

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Line	Address	Code	Label	Description	Address	Code	Label	Description
2514	0371		UJN	EJAX			RETURN	1SJ 1124
3		**		INT - INITIALIZE CELLS FOR EJT/CM SCHEDULING.				1SJ 1126
4		*						1SJ 1127
5		*		ENTRY (SCJC) .NE. 0 IF RECYCLE CALL.				1SJ 1128
6		*						1SJ 1129
7		*		USES JP, JC, EP, RM - RM+1, RE, TM - TM+4, CM - CM+4.				1SJ 1130
8		*						NS22000 49
9		*		CALLS SSA.				NS22000 50
10								1SJ 1131
11								1SJ 1132
12	2515	0200	4111	INT1	RJM	SSA	SET STATISTICAL AREA ADDRESS	NS22000 51
13	2517	6101	4213		CRM	SPST+JS0S*5,T1	READ SCHEDULER STATISTICS	NS22000 52
14								NS22000 53
15	2521	0100	2521	INT	SUBR		ENTRY/EXIT	1SJ 1133
16	2523	1400			LDN	0		1SJ 1134
17	2524	3462			STD	JP	PRIORITY OF SELECTED JOB	1SJ 1135
18	2525	3463			STD	JC	CP NUMBER OF JOB REQUESTING FL INCREASE	1SJ 1136
19	2526	3467			STD	EP	EJT ORDINAL OF SELECTED JOB	1SJ 1137
20	2527	3444			STD	RM	ROLLING CM ACCUMULATOR	1SJ 1138
21	2530	3445			STD	RM+1		1SJ 1139
22	2531	3446			STD	RE	ROLLING ECS ACCUMULATOR	1SJ 1140
23	2532	2000	0106		LDC	RTCL	READ REAL-TIME CLOCK	1SJ 1141
24	2534	6025			CRD	TM		1SJ 1142
25	2535	5000	1233		LDM	SCJC		1SJ 1143
26	2537	0455			ZJN	INT1	IF NOT RECYCLE	NS22000 54
27								1SJ 1145
28		*		RESET CELLS AND INSTRUCTIONS FOR RECYCLE.				1SJ 1146
29								1SJ 1147
30	2540	1400			LDN	0		1SJ 1148
31	2541	5400	1233		STM	SCJC		1SJ 1149
32	2543	5400	4146		STM	USDA		NS22000 55
33	2545	5400	4155		STM	USDB		NS22000 56
34	2547	5400	4174		STM	USDC		NS22000 57
35	2551	5400	2773		STM	SCPA		1SJ 1150
36	2553	5400	2776		STM	SCPB		1SJ 1151
37	2555	5400	3467		STM	SFJK		1SJ 1152
38	2557	5400	3502		STM	SFJL		1SJ 1153
39	2561	1500			LCN	0		1SJ14 1
40	2562	5400	3461		STM	SFJG		1SJ14 2
41	2564	5400	3063		STM	SFJM		1SJ8 2
42	2566	2000	3067		LDC	LDDI+EP		1SJ 1156
43	2570	5400	3131		STM	SFJB		1SJ 1157
44	2572	2000	3716		LDC	SFJ29		1SJ 1158
45	2574	5400	3530		STM	SFJH		1SJ 1159
46	2576	2000	3041		LDC	LDDI+SC		1SJ 1160
47	2600	5400	3536		STM	SFJI		1SJ 1161
48	2602	5000	2453		LDM	CFLB		1SJ 1162
49	2604	5400	2314		STM	CFLA		1SJ 1163
50	2606	5000	4010		LDM	SFJQ		1SJ 1164
51	2610	5400	3132		STM	SFJC		1SJ 1165
52	2612	2000	5700		LDC	SOMI		NS2153 7
53	2614	5400	3115		STM	SFJR		1SJ 1167
54	2616	0100	2521		LJM	INTX	RETURN	1SJ 1168

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			**	IRR - ISSUE ROLLOUT REQUEST.		1SJ	1206
			*			1SJ	1207
			*	ENTRY (A) = 6/ OP,12/ CP.		271L716	267
			*	OP *ROCM* OPTIONS.		1SJ	1209
			*	CP CP/PCP TO ROLL.		271L716	268
			*			1SJ	1211
			*	EXIT (A) = 0 IF ROLLOUT REQUEST WAS ACCEPTED.		1SJ	1212
			*	JOB'S PREEMPTED STATISTIC UPDATED.		NS22000	58
			*			1SJ	1213
			*	USES CM - CM+4.		1SJ	1214
			*			1SJ	1215
			*	MACROS MONITOR.		1SJ	1216
						1SJ	1217
						1SJ	1218
						1SJ	1219
12	2620	0100 2620		IRR SUBR ENTRY/EXIT		1SJ	1219
13	2622	3412		STD CM+2 STORE CP/PCP NUMBER		271L716	269
14	2623	1063		SHN -14		271L716	270
15	2624	2300 4000		LMC 4000 SET ALTERNATE CP/PCP OPTION		271L716	271
16	2626	3411		STD CM+1		271L716	272
17	2627	5600 4222		AOM SPST+JS1S*5+2 INCREMENT JOBS PREEMPTED		NS22000	59
18	2631	1063		SHN -14		NS22000	60
19	2632	5500 4221		RAM SPST+JS1S*5+1		NS22000	61
20	2634	1476		MONITOR ROCM REQUEST ROLLOUT		271L716	273
21	2637	3011		LDD CM+1		1SJ	1226
22	2640	0357		UJN IRRX RETURN		1SJ	1227
27			**	IUT - ISSUE *UTEM* MONITOR FUNCTION.		1SJ	1229
28			*			1SJ	1230
29			*	ENTRY (A) = 1/ F,1/ I,1/ 0,3/ C,12/ P		1SJ	1231
30			*	F = 0 IF EJT ENTRY UPDATE.		1SJ	1232
31			*	= 1 IF QFT ENTRY UPDATE.		1SJ	1233
32			*	I = 0 IF INTERLOCK SHOULD BE SET.		1SJ	1234
33			*	= 1 IF INTERLOCK SHOULD BE CLEARED.		1SJ	1235
34			*	C = NUMBER OF *UTEM* PARAMETER WORDS.		1SJ	1236
35			*	= 0 IF INTERLOCK REQUEST.		1SJ	1237
36			*	P = PARAMETER LIST ADDRESS.		1SJ	1238
37			*			1SJ	1239
38			*	EXIT (A) = 0 IF *UTEM* FUNCTION WAS SUCCESSFUL.		1SJ	1240
39			*	.NE. 0 IF *UTEM* VERIFICATION FAILED.		1SJ	1241
40			*			1SJ	1242
41			*	USES CM - CM+4.		1SJ	1243
42			*			1SJ	1244
43			*	CALLS EJA, IOA.		1SJ	1245
44			*			1SJ	1246
45			*	MACROS MONITOR.		1SJ	1247
46						1SJ	1248
47						1SJ	1249
48	2641	0100 2641		IUT SUBR ENTRY/EXIT		1SJ	1250
49	2643	5400 2673		STM IUTB PARAMETER LIST ADDRESS		1SJ	1251
50	2645	2277 0000		LPC -7777		1SJ	1252
51	2647	1001		SHN 1		1SJ	1253
52	2650	3410		STD CM TABLE INDICATOR		1SJ	1254
53	2651	1301		SCN 1 SAVE INTERLOCK FLAG		1SJ	1255
54	2652	1001		SHN 1		1SJ	1256

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2653	3412			STD	CM+2		1SJ	1257
2654	1061			SHN	-14-2		1SJ	1258
2655	3411			STD	CM+1	NUMBER OF PARAMETER WORDS	1SJ	1259
2656	5010	2710		LDM	IUTC,CM	USE TABLE FLAG TO SET SUBROUTINE ADDRESS	1SJ	1260
2660	5400	2663		STM	IUTA		1SJ	1261
2662	0200	0000		RJM	**	CALCULATE TABLE ADDRESS	1SJ	1262
			2663	IUTA	EQU	*-1	1SJ	1263
2664	3414			STD	CM+4		1SJ	1264
2665	1063			SHN	-14		1SJ	1265
2666	3413			STD	CM+3		1SJ	1266
2667	3011			LDD	CM+1		1SJ	1267
2670	0404			ZJN	IUT1	IF NO PARAMETER WORDS	1SJ	1268
2671	3077			LDD	MA	WRITE PARAMETERS TO MESSAGE BUFFER	1SJ	1269
2672	6311	0000		CWM	** ,CM+1		1SJ	1270
			2673	IUTB	EQU	*-1	1SJ	1271
2674	3012			IUT1	LDD	CM+2	1SJ	1272
2675	1005			SHN	5	SET/CLEAR INTERLOCK FLAG	1SJ	1273
2676	3511			RAD	CM+1		1SJ	1274
2677	1400			LDN	0		1SJ	1275
2700	3412			STD	CM+2		1SJ	1276
2701	2000	0115		MONITOR	UTEM		1SJ	1277
2705	3011			LDD	CM+1		1SJ	1278
2706	0100	2641		LJM	IUTX	RETURN	1SJ	1279
							1SJ	1280
2710	2507			IUTC	CON	EJA	1SJ	1281
2711	4773			CON	/3SB/IOA	CALCULATE QFT ENTRY ADDRESS	271L716	274
				**		RST - REQUEST STORAGE.	271L716	276
				*			271L716	277
				*		ENTRY (A) = 6/ T,12/ FL.	271L716	278
				*		T = MEMORY TYPE. 0 IF CM, 1 IF EM.	271L716	279
				*		FL = STORAGE AMOUNT.	271L716	280
				*		(AA - AA+4) = *SCHE* WORD OF EJT ENTRY.	271L716	281
				*		(EJ - EJ+4) = *JSNE* WORD OF EJT ENTRY.	271L716	282
				*			271L716	283
				*		EXIT (A) = 0 IF REQUEST ACCEPTED, ELSE NON-ZERO.	271L716	284
				*			271L716	285
				*		USES CM - CM+4.	271L716	286
				*			271L716	287
				*		MACROS MONITOR.	271L716	288
							271L716	289
							271L716	290
2712	0100	2712		RST	SUBR	ENTRY/EXIT	271L716	291
2714	3411			STD	CM+1	SET FL	271L716	292
2715	1063			SHN	-14	SET REQUEST TYPE	271L716	293
2716	3412			STD	CM+2		271L716	294
2717	3054			LDD	EJ+4		271L716	295
2720	1076			SHN	-1		271L716	296
2721	1237			LPN	37		271L716	297
2722	1111			LMK	PCJS		271L716	298
2723	0506			NJN	RST1	IF JOB NOT AT PCP	271L716	299
2724	2000	4000		LDC	4000	SET PSEUDO-ROLLIN FLAG	273L780	42
2726	3512			RAD	CM+2		271L716	301
2727	3021			LDD	AA+1	STORE PCP NUMBER IN *RSTM* REQUEST	271L716	302

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2730	3413		STD	CM+3		271L716	303	
2731	1417	RST1	MONITOR	RSTM	REQUEST STORAGE	271L716	304	
2734	3011		LDD	CM+1	RETURN STATUS IN (A)	271L716	305	
2735	0354		UJN	RSTX	RETURN	271L716	306	
		**			SCP - SELECT CONTROL POINT.	1SJ	1284	
		*				1SJ	1285	
		*	ENTRY	(JC) = 0.		271L716	307	
		*		(JP) = SCHEDULING PRIORITY OF SELECTED JOB.		1SJ	1296	
		*		(TE) = LWA OF *TACP* TABLE.		271L716	308	
		*				1SJ	1297	
		*	EXIT	(A) = (JC) = CP NUMBER IF ONE IS AVAILABLE.		271L716	309	
		*		= 0 IF NO CP IS AVAILABLE.		271L716	310	
		*		.LT. 0 IF PCP JOB WAS SELECTED BUT ONLY FIRST OR		271L716	311	
		*		LAST CP IS AVAILABLE.		271L716	312	
		*				1SJ	1301	
		*	USES	AE, AM - AM+1, T0 - T2.		271L716	313	
		*				1SJ	1303	
		*	CALLS	CCP, IRR.		271L716	314	
						1SJ	1305	
						1SJ	1306	
2736	1400	SCP8	LDN	0	SET EXIT CONDITION = NO CP AVAILABLE	271L716	315	
2737	3463	SCP9	STD	JC	SET CP NUMBER	271L716	316	
						271L716	317	
2740	0100	2740	SCP	SUBR	ENTRY/EXIT	271L716	318	
2742	5000	1303		LDM	ASJA	271L716	319	
2744	1276			LPN	76	271L716	320	
2745	1122			LMK	PCJS*2	271L716	321	
2746	3400			STD	T0	271L716	322	
2747	0523			NJN	SCP2	IF SELECTED JOB NOT AT PCP	271L716	323
2750	5000	2773		LDM	SCPA		271L716	324
2752	0200	2234		RJM	CCP	CHECK FOR FIRST/LAST CP	271L716	325
2754	0505			NJN	SCP1	IF FREE CP NEITHER FIRST NOR LAST	271L716	326
2755	5400	2773		STM	SCPA	CLEAR FREE CP NUMBER	271L716	327
2757	5600	3007		AOM	SCPC		271L716	328
2761	5000	2776	SCP1	LDM	SCPB		271L716	329
2763	0200	2234		RJM	CCP	CHECK FOR FIRST/LAST CP	271L716	330
2765	0505			NJN	SCP2	IF ROLLING CP NEITHER FIRST NOR LAST	271L716	331
2766	5400	2776		STM	SCPB	CLEAR ROLLING CP NUMBER	271L716	332
2770	5600	3007		AOM	SCPC		271L716	333
2772	2000	0000	SCP2	LDC	**	(NUMBER OF AVAILABLE CP)	271L716	334
		2773	SCPA	EQU	*-1		271L716	335
2774	0542			NJN	SCP9	IF THERE IS AN AVAILABLE CONTROL POINT	271L716	336
2775	2000	0000		LDC	**	(NUMBER OF ROLLING CP)	271L716	337
		2776	SCPB	EQU	*-1		271L716	338
2777	0403			NJP	SCP8	IF CP JOB IS ALREADY BEING ROLLED	271L716	339
3002	3036			LDD	TE	SET *TACP* POINTER	271L716	340
3003	3401			STD	T1		271L716	341
3004	3701		SCP3	SOD	T1	DECREMENT *TACP* INDEX	271L716	342
3005	4001			LDI	T1		271L716	343
3006	0510			NJN	SCP3.3	IF NOT END OF SEARCH	271L716	344
3007	1400		SCP3.1	LDN	0		271L716	345
		3007	* SCP3	LDN	1 OR 2	PCP JOB AND UNUSABLE CP FREE/ROLLING	271L716	346
			SCPC	EQU	*-1		271L716	347

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3010	0404		ZJN	SCP3.2	IF NO NEED TO BLOCK PCP JOB SCHEDULING	271L716	348
3011	5600 3405		AOM	SFJY	INHIBIT PCP JOB SCHEDULING	271L716	349
3013	1500		LCN	0		271L716	350
3014	0100 2740	SCP3.2	UJP	SCPX	RETURN	271L716	351
						271L716	352
3016	3402	SCP3.3	STD	T2		271L716	353
3017	3266		SBD	NC		271L716	354
3020	0663		PJN	SCP3	IF PCP JOB	271L716	355
3021	5002 6132		LDM	TJPR-1,T2		271L716	356
3023	3262		SBD	JP		271L716	357
3024	0662		PJN	SCP3.1	IF LOWEST PRIORITY .GE. SELECTED JOB	271L716	358
3025	3002		LDD	T2		271L716	359
3026	0200 2234		RJM	CCP	CHECK FOR FIRST/LAST CP	271L716	360
3030	0503		NJN	SCP4	IF NEITHER FIRST NOR LAST CP	271L716	361
3031	3000		LDD	T0		271L716	362
3032	0451		ZJN	SCP3	IF SELECTED JOB AT PCP	271L716	363
3033	2000 2000	SCP4	LDC	2000	CAUSE *CFL* TO IGNORE THIS CP	271L716	364
3035	4501		RAI	T1		271L716	365
3036	5002 6223		LDM	TJCM-1,T2	ACCUMULATE ROLLING CM FL	271L716	366
3040	3540		RAD	AM+1		271L716	367
3041	1063		SHN	-14		271L716	368
3042	3537		RAD	AM		271L716	369
3043	5002 6314		LDM	TJEC-1,T2	ACCUMULATE ROLLING EM FL	271L716	370
3045	3542		RAD	AE		271L716	371
3046	3002		LDD	T2		271L716	372
3047	0200 2234		RJM	CCP	CHECK FOR FIRST/LAST CP	271L716	373
3051	0502		NJN	SCP5	IF NEITHER FIRST NOR LAST CP	271L716	374
		*	LDN	0	DISALLOW PSEUDO-ROLLOUT OF CP 1 JOB	271L716	375
		0	ERRNZ	/CPS/ROSR	CODE DEPENDS ON VALUE	271L716	376
3052	0303		UJN	SCP6	ISSUE ROLLOUT REQUEST	271L716	377
						271L716	378
3053	2020 0000	SCP5	LDC	/CPS/ROPR*10000	ALLOW PSEUDO-ROLLOUT	271L716	379
3055	3302	SCP6	LMD	T2		271L716	380
3056	0200 2621		RJM	IRR	ISSUE ROLLOUT REQUEST	271L716	381
3060	0100 2736	SCP7	UJP	SCP8	RETURN	271L716	382

	**				SFJ - SEARCH FOR JOB.		1SJ	1423
	*						1SJ	1424
	*				SCAN THE EJT LOOKING FOR THE HIGHEST PRIORITY JOB IN A		1SJ	1425
1	*				SCHEDULABLE JOB STATE THAT MAY BE SCHEDULED WITHIN THE BOUNDS		1SJ	1426
2	*				OF AVAILABLE CM/ECS AND SERVICE CLASS RESOURCE CONSTRAINTS.		1SJ	1427
3	*						1SJ	1428
4	*				ENTRY (EP) = 0.		1SJ	1429
5	*				(TM - TM+1) = SECONDS PORTION OF *RTCL*.		1SJ	1430
6	*				(TE) = LWA OF *TACP* TABLE.		1SJ	1431
7	*						1SJ	1432
8	*				EXIT (EP) = EJT ORDINAL OF SELECTED JOB.		1SJ	1433
9	*				= 0 IF NO SCHEDULABLE JOB FOUND.		1SJ	1434
10	*				(CS - CS+1) = EXCESS CM IN SERVICE CLASS.		1SJ	1435
11	*				(ES) = EXCESS ECS IN SERVICE CLASS.		1SJ	1436
12	*				(JP) = SCHEDULING PRIORITY OF SELECTED JOB.		1SJ	1437
13	*				(JM) = CM REQUIRED BY SELECTED JOB.		1SJ	1438
14	*				(JE) = ECS REQUIRED BY SELECTED JOB.		1SJ	1439
15	*				(SP) = SERVICE CLASS OF SELECTED JOB.		1SJ	1440
16	*						1SJ	1441
17	*				USES T0 - T7, CM - CM+4, AA - AA+4, BB - BB+4, E0,		1SJ	1442
18	*				CS - CS+1, ES, EJ - EJ+4, SC, EP, SP, JP, JM, JE, TP.		1SJ	1443
19	*						1SJ	1444
20	*				CALLS IUT.		NS2395	1
21	*						NS2395	2
22	*				MACROS CFI.		1SJ	1445
23							1SJ	1446
24							1SJ	1447
25		3062	2000 7777	SFJ33	LDC 7777		1SJ8	3
26			3063	SFJM	EQU *-1 (2ND BEST JOB-S DEVICE ACTIVITY)		1SJ	1456
27		3064	1006		SHN 21-13		1SJ14	3
28		3065	0714		MJN SFJX IF NO SECOND JOB		1SJ14	4
29		3066	1071		SHN 13-21		1SJ14	5
30		3067	1703		SBN 3		1SJ14	6
31		3070	0707		MJN SFJ34 IF NOT TOO MUCH ACTIVITY		1SJ14	7
32		3071	1452		LDN PPAL		1SJ14	8
33		3072	6010		CRD CM		1SJ14	9
34		3073	3014		LDD CM+4		1SJ14	10
35		3074	0405		ZJN SFJX IF NO PP-S AVAILABLE		1SJ14	11
36		3075	1701		SBN 1		NS2210	1
37		3076	0403		ZJN SFJX IF ONLY 1 PP AVAILABLE		1SJ14	14
38		3077	5600 1233	SFJ34	AOM SCJC SET RECYCLE FLAG		1SJ14	15
39							1SJ	1460
40		3101	0100 3101	SFJ	SUBR ENTRY/EXIT		1SJ	1461
41		3103	5600 4214		AOM SPST+JS0S*5+1 INCREMENT EJT SCANS		V23L617	15
42		3105	1063		SHN -14		NS22000	63
43		3106	5500 4213		RAM SPST+JS0S*5		V23L617	16
44		3110	5000 4004		LDM SFJA START SCAN WITH CURRENT ORDINAL		NS2153	8
45		3112	3434		STD E0		NS2153	9
46		3113	0100 3165		LJM SFJ3 ENTER LOOP		NS2153	10
47							1SJ	1465
48	*				SCAN EJT LOOKING FOR HIGHEST PRIORITY SCHEDULABLE JOB.		1SJ	1466
49							1SJ	1467
50		3115	5700 4004	SFJ2	SOM SFJA DECREMENT EJT ORDINAL		NS2153	11
51	*				UJN SFJX (SCHEDULABLE JOB WITH ERROR FLAG SET)		1SJ	1469
52			3115	SFJR	EQU *-2		NS2153	12
53		3117	3434		STD E0		NS2153	13
54		3120	0606		PJN SFJ2.1 IF NOT WRAP OF THE EJT		NS2153	14

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3121	2000 0000		LDC	**		NS2153	15
		3122	SFJS	EQU	*-1	(HIGHEST EJT ORDINAL)	NS2153 16
3123	5400 4004		STM	SFJA		NS2153	17
3125	3434		STD	E0		NS2153	18
3126	2300 0000		LMC	**		NS2153	19
		3127	SFJT	EQU	*-1	(STARTING EJT ORDINAL)	NS2153 20
3130	0535		NJN	SFJ3		IF EJT SCAN NOT COMPLETE	1SJ 1471
3131	3067		LDD	EP			1SJ 1472
		*	UJN	SFJ2.2		(POST-REJECT SCAN COMPLETE)	NS2153 21
		3131	SFJB	EQU	*-1		1SJ 1474
3132	0331		UJN	SFJ2.2		EXIT	NS2153 22
		*	NJN	SFJ2.2		(JOB WAS REJECTED)	NS2153 23
		3132	SFJC	EQU	*-1		1SJ 1478
		*				NO JOB WAS SELECTED FOR SCHEDULING BUT AT LEAST ONE JOB WAS	1SJ 1479
		*				REJECTED DUE TO VIOLATION OF SERVICE CLASS RESOURCE	1SJ 1480
		*				CONSTRAINTS. REMOVE SERVICE CLASS RESOURCE CONSTRAINTS AND	1SJ 1481
		*				RE-SCAN THE EJT TO SELECT THE HIGHEST PRIORITY JOB OF THOSE	1SJ 1482
		*				PREVIOUSLY REJECTED. THE SELECTED JOB WILL BE SCHEDULED ONLY	1SJ 1483
		*				IF SUFFICIENT CM AND ECS IS AVAILABLE WITHOUT ROLLING OUT	1SJ 1484
		*				OTHER JOBS. IF FLEXIBLE MEMORY PARTITIONING IS DISABLED, NO	1SJ 1485
		*				RE-SCAN WILL BE PERFORMED.	271L716 383
							271L716 384
3133	5000 2773		LDM	SCPA			1SJ 1487
		*	UJN	SFJX		(FLEXIBLE MEMORY PARTITIONING DISABLED)	1SJ 1488
		3133	SFJW	EQU	*-2		271L716 385
3135	0443		ZJN	SFJX		IF NO AVAILABLE CONTROL POINTS	271L716 386
3136	1400		LDN	0		REINITIALIZE EJT SCAN	1SJ 1489
3137	5400 4146		STM	USDA			NS22000 65
3141	5400 4155		STM	USDB			NS22000 66
3143	5400 4174		STM	USDC			NS22000 67
3145	5000 4005		LDM	SFJN			NS22000 68
3147	5400 3131		STM	SFJB			1SJ 1490
3151	2000 3115		LDC	SFJ2			1SJ 1491
3153	5400 3530		STM	SFJH			1SJ 1494
3155	5000 4006		LDM	SFJ0			1SJ 1495
3157	5400 3536		STM	SFJI			1SJ 1496
3161	0100 3115		LJM	SFJ2		PERFORM POST-REJECT SCHEDULING	1SJ 1497
							NS2153 24
							NS2153 25
3163	0100 3062		SFJ2.2	LJM	SFJ33	CONTINUE	NS2153 26
							NS2153 27
3165	3034		SFJ3	CFI	EJT,E0	GET EJT ENTRY OFFSET	NS2153 28
3167	2100 0000		ADC	**		ADD EJT FWA (SET BY *PRS*)	1SJ 1501
		3170	SFJD	EQU	*-1	(EJT FWA)	1SJ 1502
			ADK	JSNE		READ EJT ENTRY	1SJ 1503
3171	6050		CRD	EJ			1SJ 1504
3172	3421		STD	AA+1		SAVE EJT ADDRESS	1SJ 1505
3173	1063		SHN	-14			1SJ 1506
3174	3420		STD	AA			1SJ 1507
3175	3050		LDD	EJ			1SJ 1508
3176	0404		ZJN	SFJ4		IF EMPTY ENTRY	1SJ 1509
3177	3054		LDD	EJ+4			1SJ 1510
3200	1013		SHN	21-6			1SJ 1511
3201	0603		PJN	SFJ5		IF JOB ADVANCE IS CLEAR	1SJ 1512
3202	0100 3115		SFJ4	LJM	SFJ2	CONTINUE EJT SCAN	1SJ 1513
							1SJ 1514
3204	1006		SFJ5	SHN	6-0		1SJ 1515

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3205	0774		MJN	SFJ4	IF JOB ADVANCE INHIBITED	1SJ	1516
3206	1237		LPN	37	GET JOB STATUS	1SJ	1517
3207	3402		STD	T2		1SJ	1518
3210	5400	4015	STM	SFJU+4		NS2395	3
3212	3020		LDD	AA	READ REMAINDER OF EJT ENTRY	1SJ	1519
3213	1014		SHN	14		1SJ	1520
3214	3321		LMD	AA+1		1SJ	1521
3215	1601		ADN	SCHE-JSNE		1SJ	1522
3216	6020		CRD	AA		1SJ	1523
3217	1601		ADN	PRFE-SCHE		1SJ	1524
3220	6010		CRD	CM		1SJ	1525
3221	1601		ADN	SCLE-PRFE		1SJ	1526
3222	6027		CRD	BB		1SJ	1527
3223	3027		LDD	BB	GET SERVICE CLASS	1SJ	1528
3224	1071		SHN	-6		1SJ	1529
3225	3441		STD	SC		1SJ	1530
		-100	ERRPL	7677-MXPR	ENSURE *LCN* MAY BE USED	1SJ	1531
3226	1500		LCN	7777-MXPR	PRESET SCHEDULING PRIORITY	1SJ	1532
3227	3430		STD	BB+1		1SJ	1533
3230	3020		LDD	AA	GET EST ORDINAL	1SJ	1534
3231	3431		STD	BB+2		1SJ	1535
3232	3011		LDD	CM+1		1SJ	1536
3233	0503		ZJP	SFJ7	IF NO ERROR FLAG SET IN EJT ENTRY	1SJ33	1
3236	5002	4072	LDM	TJST,T2		1SJ	1538
3240	1007		SHN	21-12		1SJ	1539
3241	0632		PJN	SFJ6	IF JOB MAY NOT BE SCHEDULED	1SJ	1540
3242	3002		LDD	T2		1SJ	1541
3243	1110		LMN	SUJS		1SJ	1542
3244	0516		NJN	SFJ5.1	IF NOT SUSPENDED JOB	1SJ	1543
3245	3054		LDD	EJ+4		1SJ	1544
3246	1070		SHN	0-7		1SJ	1545
3247	1217		LPN	17		1SJ	1546
3250	1102		LMN	OLCS		1SJ	1547
3251	0422		ZJN	SFJ6	IF ON-LINE INTERACTIVE JOB	1SJ	1548
3252	1103		LMN	DTCS&OLCS		1SJ33	2
3253	0507		NJN	SFJ5.1	IF NOT DETACHED	1SJ33	3
3254	3011		LDD	CM+1		1SJ33	4
3255	1724		SBK	ODET		1SJ33	5
3256	0604		PJN	SFJ5.1	IF ERROR FLAG .GE. *ODET*	1SJ33	6
3257	3027		LDD	BB		1SJ33	7
3260	1015		SHN	21-4		1SJ33	8
3261	0612		PJN	SFJ6	IF NOT FORCED ROLLIN	1SJ33	9
3262	3011		LDD	CM+1		241L630	13
3263	1747		SBK	MXET		271L716	387
3264	0607		PJN	SFJ6	IF ERROR FLAG NOT VALID	241L630	15
3265	5011	4023	LDM	TEFP,CM+1	GET TRANSFER ADDRESS FROM *TEFP* TABLE	241L630	16
3267	0404		ZJN	SFJ6	IF NO PROCESSOR DEFINED FOR ERROR FLAG	1SJ40	1
			UJN	SFJ6	(IF DEADSTART SEQUENCING JOB HAS NOT RUN)	1SJ40	2
3270	3401		STD	T1		1SJ	1551
3271	0101	0000	LJM	0,T1		1SJ	1553
						1SJ	1554
3273	0100	3115	LJM	SFJ2	CONTINUE EJT SCAN	1SJ	1555
						1SJ	1556
					CHECK FOR FORCED ROLLIN/ROLLOUT.	1SJ	1557
						1SJ	1558
3275	3027		LDD	BB		1SJ	1559
3276	1014		SHN	21-5		1SJ	1560

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3277	0773		MJN	SFJ6	IF FORCED ROLLOUT	1SJ	1561
3300	1001		SHN	5-4		1SJ	1562
3301	0624		PJN	SFJ10	IF NOT FORCED ROLLIN	1SJ	1563
3302	5002	4072	LDM	TJST,T2		1SJ	1564
3304	1010		SHN	21-11		1SJ	1565
3305	0620		PJN	SFJ10	IF JOB MAY NOT BE FORCED ROLLED IN	1SJ	1566
3306	0100	3370	LJM	SFJ12	SCHEDULE JOB WITH FL	242L642	41
						1SJ	1571
			*		IF ENTERING AT THIS LOCATION DUE TO AN ERROR FLAG REQUIRING	1SJ	1572
			*		ROLLIN WITH ONLY NFL, SET THE MAXIMUM NFL AS THE REQUIRED CM	1SJ	1573
			*		FL. ROUTINE *ASJ* WILL REQUEST THIS MUCH CM STORAGE TO	1SJ	1574
			*		ENSURE *1RI* WILL HAVE SUFFICIENT SPACE FOR NFL ROLLIN.	1SJ	1575
						1SJ	1576
3310	1412		SFJ9	LDK	MNFL	242L642	42
3311	3433		STD	BB+4		1SJ	1578
3312	1400		LDN	0	CLEAR ECS REQUIREMENT	1SJ	1579
3313	3432		STD	BB+3		1SJ	1580
						1SJ	1581
			*		SAVE THE JOB-S EJT ORDINAL AS A FLAG FOR ROUTINE *ASJ*	1SJ	1582
			*		INDICATING THE CM FL FIELD IN THE EJT ENTRY MUST BE CLEARED	1SJ	1583
			*		TO TELL *1RI* ONLY NFL SHOULD BE ROLLED IN. IF THE JOB	1SJ	1584
			*		STATE IS *PRJS*, CLEARING THE CM FL FIELD WILL HAVE NO	1SJ	1585
			*		EFFECT.	1SJ	1586
						1SJ	1587
3314	3034		LDD	E0		1SJ	1588
3315	5400	1474	STM	ASJB		1SJ	1589
3317	2000	0363	LDC	UJNI+77-SFJR+SFJX	TERMINATE JOB SEARCH	1SJ	1590
						1SJ	1591
						1SJ	1592
3321	5400	3115	STM	SFJR		1SJ	1592
3323	0100	3435	LJM	SFJ12.5	CHECK PRIORITY	271L716	388
						1SJ	1594
			*		DETERMINE WHETHER OR NOT THE JOB IS IN A SCHEDULABLE STATE.	1SJ	1595
						1SJ	1596
3325	3011		SFJ10	LDD	CM+1	1SJ	1597
3326	0511		SFJ10.1	NJN	SFJ11	1SJ30A	15
3327	5002	4072	LDM	TJST,T2	IF ERROR FLAG SET	1SJ	1599
3331	1006		SHN	21-13		1SJ	1600
3332	0703		MJN	SFJ10.3	IF SCHEDULABLE JOB	1SJ30A	16
3333	0100	3115	SFJ10.2	LJM	SFJ2	1SJ30A	17
						1SJ	1603
3335	3041		SFJ10.3	LDD	SC	271L716	389
3336	1723		SFJ10.5	SBK	MXJC	271L716	390
3337	0631		SFJ11	PJN	SFJ12	1SJ	1606
3340	3002		LDD	T2	IF NO JCB FOR SERVICE CLASS	1SJ5	1
3341	1103		LMK	SIJS		1SJ5	2
3342	0426		ZJN	SFJ12	IF SCP ROLLIN JOB STATUS	1SJ5	3
						1SJ	1607
			*		CALCULATE SCHEDULING PRIORITY. THE CALCULATION IS PERFORMED	1SJ	1608
			*		IN-LINE TO AVOID THE OVERHEAD OF SUBROUTINE USAGE.	1SJ	1609
						1SJ	1610
3343	2000	1077	LDC	SHNI+77	CALCULATE THE WEIGHTING FACTOR SHIFT	1SJ18	1
3345	5241	6730	SBM	TEPB+2*MXJC,SC		271L716	391
3347	5400	3356	STM	SFJE		1SJ	1613
3351	3025		LDD	TM		1SJ	1614
3352	3223		SBD	AA+3		1SJ	1615
3353	1014		SHN	14		1SJ	1616
3354	3126		ADD	TM+1		1SJ	1617

3355	3224			SBD	AA+4		1SJ	1618
3356	1000		SFJE	SHN	**		1SJ	1619
3357	5141	6662		ADM	TEPB,SC		271L716	392
3361	5241	6705		SBM	TEPB+1*MXJC,SC		271L716	393
3363	0702			MJN	SFJ11.1	IF SCHEDULING PRIORITY .LT. UPPER BOUND	1SJ18	2
3364	1400			LDN	0	SET PRIORITY TO UPPER BOUND	1SJ18	3
3365	5141	6705	SFJ11.1	ADM	TEPB+1*MXJC,SC		271L716	394
3367	3430			STD	BB+1	SAVE SCHEDULING PRIORITY	1SJ	1628
3370	3011		SFJ12	LDD	CM+1		1SJ	1629
			*	UJN	SFJ12.2	(USER EM ENABLED)	NS22000	69
		3370	SFJF	EQU	*-1		1SJ	1631
3371	1146			LMN	ORET		NS2143	1
3372	0502			NJN	SFJ12.1	IF NOT OPERATOR OVERRIDE	NS2143	2
3373	3432			STD	BB+3		1SJ	1635
3374	3032		SFJ12.1	LDD	BB+3		1SJ	1636
3375	0403			ZJN	SFJ12.2	IF EM NOT REQUIRED	NS22000	70
3376	0100	3115		LJM	SFJ2	CHECK NEXT JOB	NS22000	71
							NS22000	72
3400	5600	4174	SFJ12.2	AOM	USDC	INCREMENT SCHEDULABLE JOB COUNT	NS22000	73
3402	3002			LDD	T2		271L716	395
3403	1111			LMK	PCJS		271L716	396
3404	0511			NJN	SFJ12.3	IF NOT PCP JOB	271L716	397
3405	1400			LDN	0		271L716	398
			*	LDN	1	(PCP JOB SCHEDULING INHIBITED)	271L716	399
		3405	SFJY	EQU	*-1		271L716	400
3406	0403			NJP	SFJ2	IF PCP JOB SCHEDULING INHIBITED	271L716	401
3411	3432			STD	BB+3	CLEAR EM REQUIREMENT	271L716	402
3412	3433			STD	BB+4	CLEAR CM REQUIREMENT	271L716	403
3413	1401			LDN	1	SET EST ORDINAL FOR ZERO ACTIVITY	271L716	404
3414	3431			STD	BB+2		271L716	405
3415	3037		SFJ12.3	LDD	AM		271L716	406
3416	1014			SHN	14		NS22000	75
3417	3340			LMD	AM+1		NS22000	76
3420	3233			SBD	BB+4		NS22000	77
3421	1056			SHN	-21		NS22000	78
3422	3401			STD	T1		NS22000	79
3423	0403			ZJN	SFJ12.4	IF SUFFICIENT CM	271L716	407
3424	5400	4146		STM	USDA	SET INSUFFICIENT CM	NS22000	81
3426	3042		SFJ12.4	LDD	AE		271L716	408
3427	3232			SBD	BB+3		NS22000	83
3430	0605			PJN	SFJ12.5	IF SUFFICIENT EM	271L716	409
3431	1401			LDN	1	SET INSUFFICIENT EM	NS22000	85
3432	5400	4155		STM	USDB		NS22000	86
3434	3401			STD	T1	SET CP SEARCH REQUIRED	NS22000	87
3435	3030		SFJ12.5	LDD	BB+1		271L716	410
3436	3262			SBD	JP		1SJ	1640
3437	0727			MJN	SFJ13.2	IF PRIORITY .LT. CURRENT BEST	1SJ8	7
3440	0525			NJN	SFJ13.1	IF PRIORITY .GT. CURRENT BEST	1SJ8	8
3441	3002			LDD	T2		271L716	411
3442	1111			LMK	PCJS		271L716	412
3443	0510			NJN	SFJ12.6	IF NOT PCP JOB	271L716	413
3444	5000	2773		LDM	SCPA	CHECK IF CP AVAILABLE FOR PSEUDO-ROLLIN	271L716	414
3446	0200	2234		RJM	CCP		271L716	415
3450	0515			NJN	SFJ13.1	IF FREE CP NEITHER FIRST NOR LAST	271L716	416
3451	0100	3115		LJM	SFJ2	CONTINUE EJT SCAN	271L716	417
							271L716	418
3453	3041		SFJ12.6	LDD	SC		271L716	419

3454	1123			LMN	DSSC			NS2181	12
3455	0503			NJN	SFJ13.0	IF NOT DEADSTART SEQUENCING JOB		271L716	420
3456	0100	3522		SFJ13	LJM	SFJ15.1	SELECT THIS JOB AS CURRENT BEST CANDIDATE	271L716	421
								271L716	422
3460	2000	7777		SFJ13.0	LDC	7777		271L716	423
			3461	SFJG	EQU	*-1	(ACTIVITY COUNT OF CURRENT BEST JOB)	1SJ	1644
3462	5231	4353		SBM	TDAC, BB+2			1SJ	1645
3464	0702			MJN	SFJ13.2	IF CURRENT BEST HAS LESS DEVICE ACTIVITY		1SJ8	9
3465	0534			SFJ13.1	NJN	SFJ15	IF CURRENT BEST HAS MORE DEVICE ACTIVITY	1SJ8	10
3466	2000	0000		SFJ13.2	LDC	**		1SJ8	11
			3467	SFJK	EQU	*-1	(PRIORITY OF SECOND BEST JOB)	1SJ8	12
3470	3230			SBD	BB+1			1SJ8	13
3471	0714			MJN	SFJ13.4	IF PRIORITY .GT. 2ND BEST		1SJ8	14
3472	0525			SFJ13.3	NJN	SFJ14	IF PRIORITY .LT. 2ND BEST	1SJ8	15
3473	5031	4353		LDM	TDAC, BB+2			1SJ8	16
3475	5200	3063		SBM	SFJM			1SJ8	17
3477	0706			MJN	SFJ13.4	IF ACTIVITY .LT. 2ND BEST		1SJ8	18
3500	0517			NJN	SFJ14	IF ACTIVITY .GT. 2ND BEST		1SJ8	19
3501	2000	0000		LDC	**			1SJ8	20
			3502	SFJL	EQU	*-1	(CM FL OF 2ND BEST JOB)	1SJ8	21
3503	3233			SBD	BB+4			1SJ8	22
3504	0613			PJN	SFJ14	IF REQUIRED CM .LE. 2ND BEST		1SJ8	23
3505	3030			SFJ13.4	LDD	BB+1	SET 2ND BEST = CURRENT JOB	1SJ8	24
3506	5400	3467		STM	SFJK			1SJ8	25
3510	5031	4353		LDM	TDAC, BB+2			1SJ8	26
3512	5400	3063		STM	SFJM			1SJ8	27
3514	3033			LDD	BB+4			1SJ8	28
3515	5400	3502		STM	SFJL			1SJ8	29
3517	0100	3115		SFJ14	LJM	SFJ2	CONTINUE EJT SCAN	1SJ	1651
								1SJ	1652
				*	DETERMINE IF ENOUGH CM AND ECS ARE AVAILABLE WITHOUT ROLLING			1SJ	1653
				*	JOBS OUT. ALSO, CHECK FOR VIOLATION OF SERVICE CLASS			1SJ	1654
				*	RESOURCE CONSTRAINTS.			1SJ	1655
								1SJ	1656
3521	1400			SFJ15	LDN	0	INITIALIZE CM/ECS ACCUMULATORS	1SJ	1657
3522	3405			SFJ15.1	STD	T5		271L716	424
3523	3406				STD	T6		1SJ	1659
3524	3407				STD	T7		1SJ	1660
3525	3001				LDD	T1		NS22000	88
3526	0403			ZJN	SFJ18	IF LOWER PRIORITY JOB SEARCH NOT REQUIRED		271L716	425
3527	0100	3716		SFJ16	LJM	SFJ29	GO PERFORM SCAN FOR LOWER PRIORITY JOBS	1SJ	1666
				*	LJM	SFJ2	(IF POST-REJECT SCHEDULING)	1SJ	1668
			3530	SFJH	EQU	*-1		1SJ	1669
								1SJ	1674
				*	CHECK FOR VIOLATION OF SERVICE CLASS CONSTRAINTS.			1SJ	1675
								1SJ	1676
3531	1500			SFJ18	LCN	0	INITIALIZE EXCESS CM/ECS ACCUMULATORS	1SJ	1677
3532	3421				STD	AA+1		1SJ	1678
3533	3422				STD	AA+2		1SJ	1679
3534	1437				LDN	37		1SJ	1680
3535	3420				STD	AA		1SJ	1681
3536	3041				LDD	SC		1SJ	1682
				*	UJN	SFJ19	(IF POST-REJECT SCHEDULING)	1SJ	1683
			3536	SFJI	EQU	*-1		1SJ	1684
3537	1723			SBN	MXJC			1SJ	1685
3540	0703			MJN	SFJ20	IF JCB EXISTS FOR JOB-S SERVICE CLASS		1SJ	1686
3541	0100	3636		SFJ19	LJM	SFJ26	GO MAKE THIS JOB CURRENT BEST CANDIDATE	1SJ	1687

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							1SJ	1688
	3543	3011	SFJ20	LDD	CM+1		NS2395	4
	3544	0574		NJN	SFJ19	IF ERROR FLAG SET	NS2395	5
1	3545	5041 6523		LDM	TJAM+1*MXJC,SC		NS2395	6
2	3547	1612		ADN	MNFL		1SJ44	1
3	3550	3233		SBD	BB+4		1SJ	1690
4	3551	0705		MJN	SFJ21	IF REQUIRED CM .GT. MAXIMUM FOR ONE JOB	1SJ	1691
5	3552	5041 6614		LDM	TJAM+4*MXJC,SC		1SJ	1692
6	3554	3232		SBD	BB+3		1SJ	1693
7	3555	0615		PJN	SFJ21.2	IF REQUIRED EM .LE. MAXIMUM FOR ONE JOB	271L716	426
8	3556	5002 4072	SFJ21	LDM	TJST,T2		271L716	427
9	3560	1012		SHN	21-7		NS2395A	2
10	3561	0603		MJP	SFJ14	IF INITIAL JOB STATE	NS2395A	3
11	3564	2002 4011		LDC	SFJU+2*10000	SET SERVICE WAIT JOB STATUS	NS2395	7
12	3566	0200 2642		RJM	IUT	ISSUE *UTEM* REQUEST	NS2395	8
13	3570	0100 3627		LJM	SFJ24	REJECT JOB	NS2395	9
14							1SJ	1695
15			*		DETERMINE IF THE TOTAL CM/ECS ASSIGNED TO JOBS OF THIS		1SJ	1696
16			*		CANDIDATE-S SERVICE CLASS WILL EXCEED THE MAXIMUM ALLOWABLE		1SJ	1697
17			*		IF THE CANDIDATE JOB IS SELECTED FOR SCHEDULING. THE INITIAL		1SJ	1698
18			*		CHECK DOES NOT CONSIDER THE AMOUNT OF CM/ECS ASSIGNED TO		1SJ	1699
19			*		LOWER PRIORITY JOBS OF THE CANDIDATE-S SERVICE CLASS.		1SJ	1700
20			*		HOWEVER, IF THE FIRST CHECK SHOWS THE CM/ECS MAXIMUM WOULD BE		1SJ	1701
21			*		EXCEEDED, A SECOND CHECK IS PERFORMED THAT INCLUDES THE		1SJ	1702
22			*		CM/ECS ASSIGNED TO LOWER PRIORITY JOBS OF THE CANDIDATE-S		1SJ	1703
23			*		SERVICE CLASS.		1SJ	1704
24							1SJ	1705
25	3572	5041 6546	SFJ21.2	LDM	TJAM+2*MXJC,SC		NS2152	19
26	3574	5241 5353		SBM	TTCU,SC		1SJ	1707
27	3576	1014		SHN	14		1SJ	1708
28	3577	5141 6571		ADM	TJAM+3*MXJC,SC		1SJ	1709
29	3601	5241 5376		SBM	TTCU+1*MXJC,SC		1SJ	1710
30	3603	3233		SBD	BB+4		1SJ	1711
31	3604	0611		PJN	SFJ22	IF TOTAL CM .LE. ALLOWABLE MAXIMUM	1SJ	1712
32	3605	1006		SHN	6		1SJ	1713
33	3606	3105		ADD	T5		1SJ10	1
34	3607	1014		SHN	14		1SJ	1715
35	3610	3106		ADD	T6		1SJ10	2
36	3611	0714		MJN	SFJ23	IF TOTAL CM .GT. ALLOWABLE MAXIMUM	1SJ	1717
37							1SJ	1718
38			*		CALCULATE THE AMOUNT OF CM ASSIGNED TO JOBS OF THE		1SJ	1719
39			*		CANDIDATE-S SERVICE CLASS THAT MAY REMAIN ASSIGNED IF THE		1SJ	1720
40			*		CANDIDATE IS SELECTED FOR SCHEDULING.		1SJ	1721
41							1SJ	1722
42	3612	3421		STD	AA+1		1SJ	1723
43	3613	1063		SHN	-14		1SJ	1724
44	3614	3420		STD	AA		1SJ	1725
45							1SJ	1726
46			*		PERFORM ECS RESOURCE CONSTRAINT CHECK AS WAS JUST DONE FOR		1SJ	1727
47			*		CM.		1SJ	1728
48							1SJ	1729
49	3615	5041 6637	SFJ22	LDM	TJAM+5*MXJC,SC		1SJ38	10
50	3617	5241 5421		SBM	TTUE,SC		284L847	8
51	3621	3232		SBD	BB+3		1SJ	1732
52	3622	0614		PJN	SFJ26	IF TOTAL ECS .LE. ALLOWABLE MAXIMUM	1SJ	1733
53	3623	3107		ADD	T7		1SJ	1734
54	3624	0611		PJN	SFJ25	IF TOTAL ECS .LE. ALLOWABLE MAXIMUM	1SJ	1735

3625	0100 3716	SFJ23	LJM	SFJ29	GO CALCULATE ECS OF LOWER PRIORITY JOBS	1SJ	1736
		*	LJM	SFJ24	(IF LOWER PRIORITY SCAN ALREADY PERFORMED)	1SJ	1738
	3626	SFJJ	EQU	*-1		1SJ	1739
		*			THIS JOB WILL BE SELECTED FOR SCHEDULING ONLY IF NO OTHER	1SJ	1740
		*			CANDIDATES ARE FOUND THAT WOULD NOT VIOLATE SERVICE CLASS	1SJ	1741
		*			RESOURCE CONSTRAINTS AND FLEXIBLE MEMORY PARTITIONING IS	271L716	428
		*			ENABLED. ADDITIONALLY, IT WILL BE SCHEDULED ONLY IF NO	271L716	429
		*			ROLLOUTS ARE REQUIRED AND WILL BE ASSIGNED THE LOWER BOUND	271L716	430
		*			SCHEDULING PRIORITY OF ITS SERVICE CLASS.	271L716	431
						1SJ	1746
3627	5000 4007	SFJ24	LDM	SFJP	SET REJECT FLAG	1SJ	1747
3631	5400 3132		STM	SFJC		1SJ	1748
3633	0100 3703		LJM	SFJ27	CONTINUE EJT SCAN	1SJ11	14
						1SJ	1750
		*			MAKE THIS JOB THE CURRENT BEST SCHEDULING CANDIDATE.	1SJ	1751
						1SJ	1752
3635	3422	SFJ25	STD	AA+2		1SJ	1753
3636	3020	SFJ26	LDD	AA	SAVE EXCESS CM AMOUNT	1SJ	1754
3637	3457		STD	CS		1SJ	1755
3640	3021		LDD	AA+1		1SJ	1756
3641	3460		STD	CS+1		1SJ	1757
3642	3022		LDD	AA+2	SAVE EXCESS ECS AMOUNT	1SJ	1758
3643	3447		STD	ES		1SJ	1759
3644	3062		LDD	JP	SAVE PRIORITY	1SJ8	30
3645	3402		STD	T2		1SJ8	31
3646	3030		LDD	BB+1	SAVE SCHEDULING PRIORITY	1SJ	1764
3647	3462		STD	JP		1SJ	1765
3650	3002		LDD	T2	SAVE PREVIOUS BEST PRIORITY	1SJ8	32
3651	3430		STD	BB+1		1SJ8	33
3652	3064		LDD	JM	SAVE CM AMOUNT	1SJ8	34
3653	3402		STD	T2		1SJ8	35
3654	3033		LDD	BB+4	SAVE REQUIRED CM	1SJ	1766
3655	3464		STD	JM		1SJ	1767
3656	3002		LDD	T2		1SJ8	36
3657	3433		STD	BB+4		1SJ8	37
3660	3032		LDD	BB+3	SAVE REQUIRED ECS	1SJ	1768
3661	3465		STD	JE		1SJ	1769
3662	5000 3461		LDM	SFJG	SAVE ACTIVITY IN FIRST *TDAC* ENTRY	1SJ8	38
3664	5400 4353		STM	TDAC		1SJ8	39
3666	5031 4353		LDM	TDAC, BB+2	SAVE MASS STORAGE ACTIVITY COUNT	1SJ	1770
3670	5400 3461		STM	SFJG		1SJ	1771
3672	1400		LDN	0	CAUSE FIRST *TDAC* ENTRY TO BE USED	1SJ8	40
3673	3431		STD	BB+2		1SJ8	41
3674	3034		LDD	E0	SAVE EJT ORDINAL	1SJ	1772
3675	3467		STD	EP		1SJ	1773
3676	3041		LDD	SC	SAVE SERVICE CLASS	1SJ	1774
3677	3461		STD	SP		1SJ	1775
3700	3054		LDD	EJ+4	SAVE JOB STATUS	1SJ11	15
3701	5400 1303		STM	ASJA		271L716	432
3703	2000 3716	SFJ27	LDC	SFJ29	RESTORE INSTRUCTION	1SJ	1776
3705	5400 3626		STM	SFJJ		1SJ	1777
3707	3061		LDD	SP		NS2181	14
3710	1123		LMN	DSSC		NS2181	15
3711	0503		ZJP	SFJX	IF DEADSTART SEQUENCING JOB SELECTED	NS2181	16
3714	0100 3466		LJM	SFJ13.2	CHECK FOR NEW 2ND BEST JOB	1SJ8	42
						1SJ	1779

				*	CALCULATE AMOUNTS OF CM AND ECS OCCUPIED BY LOWER PRIORITY			1SJ	1780
				*	JOBS.			1SJ	1781
								1SJ	1782
1	3716	2000 3627	SFJ29	LDC	SFJ24			1SJ	1783
2	3720	5400 3626		STM	SFJJ			1SJ	1784
3	3722	3040		LDD	AM+1	INITIALIZE CM ACCUMULATOR		1SJ	1785
4	3723	3403		STD	T3			1SJ	1786
5	3724	3037		LDD	AM			1SJ	1787
6	3725	3402		STD	T2			1SJ	1788
7	3726	3042		LDD	AE	INITIALIZE ECS ACCUMULATOR		1SJ	1789
8	3727	3404		STD	T4			1SJ	1790
9	3730	3036		LDD	TE	SET *TACP* TABLE POINTER		1SJ	1791
10	3731	3443		STD	TP			1SJ	1792
11	3732	3743	SFJ30	SOD	TP	DECREMENT *TACP* POINTER		1SJ	1793
12	3733	4043		LDI	TP			1SJ	1794
13	3734	0515		NJN	SFJ31	IF *TACP* SCAN NOT COMPLETE		1SJ	1795
14	3735	3002		LDD	T2			1SJ	1796
15	3736	1014		SHN	14			1SJ	1797
16	3737	3303		LMD	T3			1SJ	1798
17	3740	3233		SBD	BB+4			1SJ	1799
18	3741	0706		MJN	SFJ30.1	IF INSUFFICIENT CM TO SCHEDULE THIS JOB		1SJ8	43
19	3742	3004		LDD	T4			1SJ	1801
20	3743	3232		SBD	BB+3			1SJ	1802
21	3744	0703		MJN	SFJ30.1	IF INSUFFICIENT ECS TO SCHEDULE THIS JOB		1SJ8	44
22	3745	0100 3531		LJM	SFJ18	GO CHECK RESOURCE CONSTRAINTS		1SJ	1804
23								1SJ8	45
24	3747	0100 3115	SFJ30.1	LJM	SFJ2	CONTINUE EJT SCAN		1SJ8	46
25								1SJ	1805
26	3751	3401	SFJ31	STD	T1	SAVE CP/PCP NUMBER		271L716	433
27	3752	5001 6132		LDM	TJPR-1,T1			1SJ	1807
28	3754	3230		SBD	BB+1			1SJ	1808
29	3755	0654		PJN	SFJ30	IF *TACP* PRIORITY .GE. CANDIDATE-S		1SJ	1809
30	3756	5001 6041		LDM	TJSC-1,T1			1SJ	1810
31	3760	3341		LMD	SC			1SJ	1811
32	3761	0511		NJN	SFJ32	IF *TACP* SERVICE CLASS .NE. CANDIDATE-S		1SJ	1812
33								1SJ	1813
34				*	ACCUMULATE CM AND ECS OF LOWER PRIORITY JOB HAVING THE SAME			1SJ	1814
35				*	SERVICE CLASS AS THAT OF THE CANDIDATE JOB.			1SJ	1815
36								1SJ	1816
37	3762	5001 6223		LDM	TJCM-1,T1			1SJ	1817
38	3764	3506		RAD	T6			1SJ	1818
39	3765	1063		SHN	-14			1SJ	1819
40	3766	3505		RAD	T5			1SJ	1820
41	3767	5001 6314		LDM	TJEC-1,T1			1SJ	1821
42	3771	3507		RAD	T7			1SJ	1822
43								1SJ	1823
44				*	ACCUMULATE CM AND ECS OF LOWER PRIORITY JOB REGARDLESS OF			1SJ	1824
45				*	SERVICE CLASS.			1SJ	1825
46								1SJ	1826
47	3772	5001 6223	SFJ32	LDM	TJCM-1,T1			1SJ	1827
48	3774	3503		RAD	T3			1SJ	1828
49	3775	1063		SHN	-14			1SJ	1829
50	3776	3502		RAD	T2			1SJ	1830
51	3777	5001 6314		LDM	TJEC-1,T1			1SJ	1831
52	4001	3504		RAD	T4			1SJ	1832
53	4002	0100 3732		LJM	SFJ30	CONTINUE *TACP* SCAN		1SJ	1833
54								1SJ	1834

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4004	1	SFJA	BSS	1	LAST EJT ORDINAL SCHEDULED	NS2153	29
						NS2153	30
4005		SFJN	BSS	0		1SJ	1835
L 3131			LOC	SFJB		1SJ	1836
L 3131	0332		UJN	SFJ2.2	POST-REJECT SCAN COMPLETE	NS2153	31
4006			LOC	*0		1SJ	1838
						1SJ	1839
4006		SFJO	BSS	0		1SJ	1840
L 3536			LOC	SFJI		1SJ	1841
L 3536	0303		UJN	SFJ19	POST-REJECT SCHEDULING, SELECT JOB	1SJ	1842
4007			LOC	*0		1SJ	1843
						1SJ	1844
4007		SFJP	BSS	0		1SJ	1845
L 3132			LOC	SFJC		1SJ	1846
L 3132	0531		NJN	SFJ2.2	IF SELECTION MADE AND REJECT FOUND	NS2153	32
4010			LOC	*0		1SJ	1848
						1SJ	1849
4010		SFJQ	BSS	0		1SJ	1850
L 3132			LOC	SFJC		1SJ	1851
L 3132	0331		UJN	SFJ2.2	EXIT	NS2153	33
4011			LOC	*0		1SJ	1853
						NS2395	10
		*		*UTEM*	PARAMETERS FOR SETTING JOB STATUS.	NS2395	11
						NS2395	12
4011	4005	SFJU	VFD	1/1,5/JSNE,6/5	VERIFY THAT JOB STATUS HAS NOT CHANGED	NS2395	13
4012	0100		VFD	6/1,6/0		NS2395	14
4013	0000 0000		CON	0,0		NS2395	15
4015	0000		CON	0	JOB STATUS WHEN JOB WAS SELECTED	NS2395	16
						NS2395	17
4016	0005		VFD	1/0,5/JSNE,6/5	SET JOB STATUS	NS2395	18
4017	0100		VFD	6/1,6/0		NS2395	19
4020	0000		CON	0		NS2395	20
4021	0000		CON	0		NS2395	21
4022	0015		CON	SWJS		NS2395	22
		**		TEFP	- TABLE OF ERROR FLAG PROCESSORS.	1SJ	1855
		*				1SJ	1856
		*			EACH ENTRY CONTAINS THE ADDRESS OF THE PROCESSOR ASSOCIATED	1SJ	1857
		*			WITH THE ERROR FLAG.	1SJ	1858
						1SJ	1859
4023		TEFP	INDEX			1SJ	1862
L 3	3306		INDEX	ARET,SFJ8	ARITHMETIC ERROR, ROLLIN FL	1SJ	1863
L 4	3306		INDEX	ITET,SFJ8	SCP INVALID TRANSFER ADDRESS, ROLLIN FL	1SJ	1864
L 5	3306		INDEX	PSET,SFJ8	PROGRAM STOP, ROLLIN FL	1SJ	1865
L 6	3306		INDEX	PPET,SFJ8	PPU ABORT, ROLLIN FL	1SJ	1866
L 7	3306		INDEX	CPET,SFJ8	CPU ABORT, ROLLIN FL	1SJ	1867
L 10	3306		INDEX	PCET,SFJ8	PP CALL ERROR, ROLLIN FL	1SJ	1868
L 14	3306		INDEX	MLET,SFJ8	MESSAGE LIMIT, ROLLIN FL	1SJ	1869
L 15	3306		INDEX	TLET,SFJ8	TIME LIMIT, ROLLIN FL	1SJ	1870
L 16	3306		INDEX	FLET,SFJ8	FILE LIMIT, ROLLIN FL	1SJ	1871
L 17	3306		INDEX	TKET,SFJ8	TRACK LIMIT, ROLLIN FL	1SJ	1872
L 20	3306		INDEX	SRET,SFJ8	SRU LIMIT, ROLLIN FL	1SJ	1873
L 22	3306		INDEX	FSET,SFJ8	FORCED ERROR, ROLLIN FL	242L642	43
L 24	3306		INDEX	ODET,SFJ8	OPERATOR DROP, ROLLIN FL	1SJ	1875

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L	25	3306	INDEX	IDET,SFJ8	SUBSYSTEM IDLEDOWN, ROLLIN FL	1SJ	1876
L	34	3306	INDEX	RRET,SFJ8	OPERATOR RERUN, ROLLIN FL	1SJ	1877
L	37	3310	INDEX	DRET,SFJ9	DEADSTART RERUN, ROLLIN NFL	1SJ	1878
L	27	3306	INDEX	STET,SFJ8	SUSPENSION TIMEOUT, ROLLIN FL	NS2100	1
L	35	3306	INDEX	OKET,SFJ8	OPERATOR KILL, ROLLIN FL	1SJ	1880
L	1	3275	INDEX	TIET,SFJ7	USER BREAK ONE, ROLLIN FL	1SJ	1881
L	2	3275	INDEX	TAET,SFJ7	USER BREAK TWO, ROLLIN FL	1SJ	1882
L	42	3310	INDEX	SVET,SFJ9	SECURITY VIOLATION, ROLLIN NFL	1SJ	1884
L	32	3306	INDEX	SSET,SFJ8	SUBSYSTEM ABORT, ROLLIN FL	1SJ	1885
L	30	3306	INDEX	ECET,SFJ8	ECS PARITY ERROR, ROLLIN FL	1SJ	1886
L	44	3306	INDEX	PEET,SFJ8	CPU PARITY ERROR, ROLLIN FL	1SJ	1887
L	41	3310	INDEX	JSET,SFJ9	JOB STEP ABORT, ROLLIN NFL	242L642	44
L	43	3310	INDEX	SYET,SFJ9	SYSTEM ABORT, ROLLIN NFL	1SJ	1888
L	40	3310	INDEX	RAET,SFJ9	RECOVERY ABORT, ROLLIN NFL	1SJ	1889
L	45	3310	INDEX	SWET,SFJ9	SYSTEM SOFTWARE ERROR, ROLLIN NFL	241L630	17
L	46	3310	INDEX	ORET,SFJ9	OVERRIDE CONDITION, ROLLIN NFL	1SJ	1890
4072			INDEX	MXET		271L716	434

** TJST - TABLE OF JOB STATE ATTRIBUTES. 242L642 45
 * ENTRY = 1 WORD. 1SJ 1894
 * INDEXED BY JOB STATUS. 1SJ 1895
 * 1SJ 1896
 *T 1/ SS, 1/ ES, 1/ FR, 1/ TE, 1/ PI 242L642 46
 * SS SET IF SCHEDULABLE JOB STATE. 242L642 47
 * ES SET IF SCHEDULABLE JOB STATE WHEN ERROR FLAG IS SET. 242L642 48
 * FR SET IF JOB IN THIS STATE MAY BE FORCED ROLLED IN. 242L642 49
 * TE SET IF TIMED/EVENT TYPE JOB STATE. 242L642 50
 * PI SET IF PRE-INITIAL TYPE JOB STATE. 242L642 51
 * 271L716 435
 * NOTE - ANY CHANGE TO THIS TABLE MUST BE COUPLED WITH A 271L716 436
 * CORRESPONDING CHANGE TO THE *TJST* TABLE IN *1PP*. 271L716 437

4072			TJST	JOBSTAT		1SJ	1902
L	0	7200		JOBSTAT PRJS,SS,ES,FR,,PI		242L642	52
L	1	0000		JOBSTAT EXJS		1SJ	1905
L	2	7000		JOBSTAT ROJS,SS,ES,FR		242L642	53
L	3	7000		JOBSTAT SIJS,SS,ES,FR		242L642	54
L	4	3000		JOBSTAT SOJS,,ES,FR		242L642	55
L	5	2400		JOBSTAT TOJS,,ES,,TE		242L642	56
L	6	0000		JOBSTAT IOJS		1SJ	1910
L	7	0000		JOBSTAT DOJS		1SJ	1911
L	10	2000		JOBSTAT SUJS,,ES		242L642	57
L	11	7000		JOBSTAT PCJS,SS,ES,FR		271L716	438
L	12	1400		JOBSTAT ERJS,,,FR,TE		242L642	58
L	13	0000		JOBSTAT NVJS		NS21000	6
L	14	0600		JOBSTAT PWJS,,,,TE,PI		242L642	59
L	15	2000		JOBSTAT SWJS,,ES		NS2395	23

4110 INDEX MXJS TERMINATE TABLE 271L716 439

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4165	0506			NJN	USD2	IF CONTROL POINT AVAILABLE	NS22000	145
4166	5600 4236			AOM	SPST+JS3S*5+4	SET NO CONTROL POINT AVAILABLE	NS22000	146
4170	1063			SHN	-14		NS22000	147
4171	5500 4235			RAM	SPST+JS3S*5+3		NS22000	148
4173	2000 0000			LDC	0	UPDATE SCHEDULABLE JOB COUNT	NS22000	149
		4174		EQU	*-1	(SCHEDULABLE JOB COUNT)	NS22000	150
4175	5500 4217			RAM	SPST+JS0S*5+4		V23L617	20
4177	1063			SHN	-14		NS22000	152
4200	5500 4216			RAM	SPST+JS0S*5+3		V23L617	21
4202	1063			SHN	-14		NS22000	154
4203	5500 4215			RAM	SPST+JS0S*5+2		V23L617	22
4205	0200 4111			RJM	SSA	SET STATISTICAL AREA ADDRESS	NS22000	156
4207	6301 4213			CWM	SPST+JS0S*5,T1	WRITE STATISTICAL DATA	NS22000	157
4211	0100 4122			LJM	USDX	EXIT	NS22000	158

		4213		SPST	EQU	*-JS0S*5	SCHEDULER PERFORMANCE STATISTICS	NS22000	160
4213		24		BSS	JS3S*5+5-JS0S*5		NS22000	161	

* COMMON DECKS.

				LIST	X		1SJ	1918
				SET	1	ASSEMBLE ROUTINE *CPR* OF *COMPCPE*	1SJ	1919
							1SJ	1920
		1	CPR\$				1SJ	1921
							271L716	442

1412THE

4237

CTEXT COMPCPE - CALCULATE PRIORITY OR ENTRY TIME.

COMPCPE

1

1										1
2										2
3										3
4										4
5										5
6										6
7										7
8										8
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56										56
57										57
58										58
59										59
60										60

IF -DEF,QUAL\$,1

COMPCPE

3

QUAL COMPCPE

COMPCPE

4

M_M

BASE M

COMPCPE

5

COMMENT 82/02/26. 96/06/05. COMPCPE - CALCULATE PRIORITY OR ENTRY TIME

COMPCPE

6

* COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.

281L803

1

*** CPE - CALCULATE PRIORITY OR ENTRY TIME.

COMPCPE

9

*

COMPCPE

10

* R. M. DANISCH 81/02/05.

COMPCPE

11

*** *CPE* CONTAINS ROUTINES TO CALCULATE A PRIORITY FROM A

COMPCPE

13

* GIVEN ENTRY TIME AND CONVERT A PRIORITY TO AN ENTRY TIME.

COMPCPE

14

* ASSEMBLY OF ROUTINES WITHIN THIS COMMON DECK IS CONTROLLED BY

COMPCPE

15

* SELECTIVELY DEFINING THE FOLLOWING SYMBOLS -

COMPCPE

16

* CPR\$ CAUSES ASSEMBLY OF SUBROUTINE *CPR*

COMPCPE

17

* CET\$ CAUSES ASSEMBLY OF SUBROUTINE *CET*

COMPCPE

18

* IOQ\$ CAUSES ASSEMBLY OF QUEUE PRIORITY CODE IN

COMPCPE

19

* SUBROUTINE *CPR*

COMPCPE

20

COMPCPE

21

.CPR IF DEF,CPR\$

COMPCPE

22

1412THE


```
**      CPR - CALCULATE PRIORITY.                                COMPCPE 24
*
*      *CPR* CALCULATES QUEUE AND SCHEDULING PRIORITIES VIA    COMPCPE 25
*      THE FOLLOWING FORMULA -                                  COMPCPE 26
*
*      PR = LB + (CT - ET) / WF                                COMPCPE 27
*
*      WHERE PR = CALCULATED PRIORITY                          COMPCPE 28
*      LB = LOWER BOUND PRIORITY OF SERVICE CLASS              COMPCPE 29
*      WF = WEIGHTING FACTOR FROM JCB                          COMPCPE 30
*      CT = CURRENT TIME (SECONDS PORTION OF WORD              COMPCPE 31
*      *RTCL*)                                                  COMPCPE 32
*      ET = ENTRY TIME FROM EJT OR IOQT ENTRY                  COMPCPE 33
*
*      ENTRY (A) = 6/ SC,12/ QT.                                COMPCPE 34
*      SC SERVICE CLASS (MUST BE .LT. *MXJC*).                 COMPCPE 35
*      QT QUEUE TYPE (*INQT*, *EXQT* OR *OTQT*).               COMPCPE 36
*      (T1 - T2) = ENTRY TIME.                                  COMPCPE 37
*
*      EXIT (A) = QUEUE PRIORITY OR SCHEDULING PRIORITY.      COMPCPE 38
*      = 0 IF *IOQ$* IS DEFINED AND ENTRY TIME = 0.           COMPCPE 39
*      .LT. 0 IF NO JCB IS DEFINED FOR SERVICE CLASS.         COMPCPE 40
*
*      USES CM - CM+4.                                          COMPCPE 41
*
*      CALLS RJC.                                              COMPCPE 42
*
*      XREF COMPRJC, COMSPIM.                                  COMPCPE 43
*
*      NOTE THE LARGEST RESOLVED CLOCK DIFFERENCE IS          COMPCPE 44
*      377777. ANYTHING OVER THAT IS ASSUMED TO BE            COMPCPE 45
*      EQUAL TO UPPER BOUND PRIORITY.                          COMPCPE 46
*
*      4237      1500      CPR3      LCN      0      INDICATE NO JCB FOR SERVICE CLASS    COMPCPE 47
*
*      4240      0100 4240      CPR      SUBR      ENTRY/EXIT                                COMPCPE 48
*      4242      5400 4256      STM      CPRA      SAVE QUEUE TYPE                        COMPCPE 49
*      4244      1063      SHN      -14
*      4245      0471      ZJN      CPR3      IF NO SERVICE CLASS                          PCPE2   1
*      4246      1123      LMN      DSSC
*      4247      0502      NJN      CPR0      IF NOT DEADSTART SEQUENCING SERVICE CLASS    PCPE1   1
*      4250      1124      LMN      SSSC&DSSC  USE JCB FOR SUBSYSTEM SERVICE CLASS      PCPE1   2
*      4251      1123      CPR0      LMN      DSSC
*      4252      0200 4332      RJM      RJC      CALCULATE JCB ADDRESS                  COMPCPE 3
*      4254      0462      ZJN      CPR3      IF NO JCB FOR SERVICE CLASS                  COMPCPE 4
*      4255      2100 0000      ADC      **      READ QUEUE CONTROL WORD FROM JCB      COMPCPE 5
*      4257      6010      EQU      *-1      (QUEUE TYPE - USED AS JCB WORD INDEX)        COMPCPE 6
*
*      .IOQ      IF      DEF,IOQ$
*
*      LDD      T1
*      ADD      T2
*      ZJN      CPRX      IF ENTRY TIME = 0
*
*      .IOQ      ENDIF
```

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4260	2000	1077	LDC	SHNI+77	USE WEIGHTING FACTOR AS SHIFT COUNT	COMPCPE	76
4262	3213		SBD	CM+3		COMPCPE	77
4263	5400	4315	STM	CPRB		COMPCPE	78
4265	3011		LDD	CM+1	SAVE LOWER AND UPPER BOUNDS	COMPCPE	79
4266	5400	4317	STM	CPRC		COMPCPE	80
4270	3012		LDD	CM+2		COMPCPE	81
4271	5400	4325	STM	CPRD		COMPCPE	82
4273	2000	0106	LDC	RTCL	READ REAL-TIME CLOCK	COMPCPE	83
4275	6010		CRD	CM		COMPCPE	84
4276	3710		SOD	CM		COMPCPE	85
4277	3011		LDD	CM+1		COMPCPE	86
4300	2101	0000	ADC	10000		COMPCPE	87
4302	3202		SBD	T2		COMPCPE	88
4303	3414		STD	CM+4		COMPCPE	89
4304	1063		SHN	-14		COMPCPE	90
4305	3110		ADD	CM		COMPCPE	91
4306	3201		SBD	T1		COMPCPE	92
4307	3413		STD	CM+3		COMPCPE	93
4310	1337		SCN	37		COMPCPE	94
4311	0512		NJN	CPR1	IF .GT. MAXIMUM VALUE	COMPCPE	95
4312	3013		LDD	CM+3		COMPCPE	96
4313	1014		SHN	14		COMPCPE	97
4314	3314		LMD	CM+4		COMPCPE	98
4315	1000		CPRB	SHN	**	COMPCPE	99
4316	2100	0000	ADC	**		COMPCPE	100
		4317	CPRC	EQU	*-1 (LOWER BOUND PRIORITY)	COMPCPE	101
4320	5200	4325	SBM	CPRD		COMPCPE	102
4322	0702		MJN	CPR2	IF PRIORITY .LT. UPPER BOUND	COMPCPE	103
4323	1400		CPR1	LDN	0	COMPCPE	104
4324	2100	0000	CPR2	ADC	**	COMPCPE	105
		4325	CPRD	EQU	*-1 (UPPER BOUND PRIORITY)	COMPCPE	106
4326	0100	4240	LJM	CPRX	RETURN	COMPCPE	107
						COMPCPE	108
			.CPR	ENDIF		COMPCPE	109
						COMPCPE	110
			.CET	IF DEF,CET\$		COMPCPE	111
			CET	SPACE 4,25		COMPCPE	112
			**	CET - CALCULATE ENTRY TIME.		COMPCPE	113
			*			COMPCPE	114
			*	*CET* CALCULATES ENTRY TIME VIA THE FOLLOWING		COMPCPE	115
			*	FORMULA -		COMPCPE	116
			*			COMPCPE	117
			*	ET = CT - (PR - LB) * WF		COMPCPE	118
			*			COMPCPE	119
			*	WHERE ET = ENTRY TIME		COMPCPE	120
			*	CT = CURRENT TIME (SECONDS PORTION OF WORD		COMPCPE	121
			*	*RTCL*)		COMPCPE	122
			*	PR = QUEUE OR SCHEDULING PRIORITY		COMPCPE	123
			*	LB = LOWER BOUND PRIORITY OF SERVICE CLASS		COMPCPE	124
			*	WF = WEIGHTING FACTOR FROM JCB		COMPCPE	125
			*			COMPCPE	126
			*	IF PR = 0 THEN ET = 0.		COMPCPE	127
			*	IF PR .LT. LB THEN ET = CT.		COMPCPE	128
			*			COMPCPE	129
			*	ENTRY (A) = 6/ SC,12/ QT.		COMPCPE	130
			*	SC SERVICE CLASS (MUST BE .LT. *MXJC*).		COMPCPE	131
			*			COMPCPE	132

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Line	Code	Label	Description	Priority
	*	QT	QUEUE TYPE (*INQT*, *EXQT*, OR *OTQT*).	133
	*	(T1)	= QUEUE PRIORITY OR SCHEDULING PRIORITY.	134
	*			135
1	*	EXIT	(T1 - T2) = ENTRY TIME.	136
2	*		= 0 IF PRIORITY = 0.	137
3	*			138
4	*	USES	T1, T2, CM - CM+4.	139
5	*			140
6	*	CALLS	RJC.	141
7	*			142
8	*	XREF	COMPRJC, COMSPIM.	143
9	*			144
10	*	NOTE	*CET* DOES NOT CONSIDER THE CASE WHERE THE DESIRED	145
11	*		PRIORITY IS GREATER THAN THE UPPER BOUND FOR THE	146
12	*		SERVICE CLASS. *CPR* WILL ADJUST THE PRIORITY	147
13	*		APPROPRIATELY WHEN IT IS BEING CALCULATED.	148
14	*			149
15	*		THE MINIMUM *RTCL* VALUE MUST EXCEED 377740	150
16	*		AS PRESET BY *SET* AND MAINTAINED BY *MTR*.	151
17				152
18				153
19		CET2	STD T2	154
20				155
21		CET	SUBR ENTRY/EXIT	156
22			STD T2 SAVE QUEUE TYPE	157
23			SHN -14	158
24			LMN DSSC	5
25			NJN CET0 IF NOT DEADSTART SEQUENCING SERVICE CLASS	6
26			LMN SSSC&DSSC USE JCB FOR SUBSYSTEM SERVICE CLASS	7
27		CET0	LMN DSSC	8
28			RJM RJC CALCULATE JCB ADDRESS	159
29			ADD T2 READ QUEUE CONTROL WORD FROM JCB	160
30			CRD CM	161
31			LDD CM+3 USE WEIGHTING FACTOR AS SHIFT COUNT	162
32			ADD TH *SHNI* INSTRUCTION	163
33			ERRNZ SHNI-1000	164
34			STM CETA	165
35			LDD T1	166
36			ZJN CET2 IF PRIORITY = 0	167
37			SBD CM+1	168
38			PJN CET1 IF PRIORITY .GE. LOWER BOUND	169
39			LDN 0	170
40		CET1	SHN **	171
41		CETA	EQU *-1	172
42			STD T2	173
43			SHN -14	174
44			STD T1	175
45			LDC RTCL READ REAL-TIME CLOCK	176
46			CRD CM	177
47			SOD CM	178
48			LDD CM+1	179
49			ADC 10000	180
50			SBD T2	181
51			STD T2 SET ENTRY TIME	182
52			SHN -14	183
53			ADD CM	184
54			SBD T1	185

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Line	Code	Text	STD LJM	T1 CETX	RETURN	COMPCPE	Value
1		.CET	ENDIF			COMPCPE	186
2						COMPCPE	187
3						COMPCPE	188
4						COMPCPE	189
5							
6		M_M	BASE	*		COMPCPE	191
7		QUAL\$	IF	-DEF,QUAL\$		COMPCPE	192
8			QUAL	*		COMPCPE	193
9		CPR\$	IF	DEF,CPR\$		COMPCPE	194
10		4241	CPR	EQU	/COMPCPE/CPR	COMPCPE	195
11			CPR\$	ENDIF		COMPCPE	196
12			CET\$	IF	DEF,CET\$	COMPCPE	197
13			CET	EQU	/COMPCPE/CET	COMPCPE	198
14			CET\$	ENDIF		COMPCPE	199
15			QUAL\$	ENDIF		COMPCPE	200
16			ENDX			COMPCPE	201
17			LIST	*		271L716	444
18		4330	CTEXT	COMPRJC	- CALCULATE JCB ADDRESS.	COMPRJC	1
19							
20							
21							
22							
23			USE	OVERLAY		1SJ	1925
24							
25							
26							
27							
28		**	OVERLAY	ORIGINS.		1SJ	1927
29						1SJ	1928
30						1SJ	1929
31		4360	03SA	EQU	**5 *3SA* ORIGIN	1SJ	1930
32		4360	03SB	EQU	**5 *3SB* ORIGIN	271L716	446
33							
34							
35							
36							
37		**	OVERFLOW	CHECKS.		1SJ	1934
38						1SJ	1935
39						1SJ	1936
40		375	ERRNG	TJSC-TTUE-MXJC-1	CHECK *1SJ* TABLES OVERFLOW	284L847	9
41							
42							
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1412THE

	**				PRS - PRESET.			1SJ	1940
	*							1SJ	1941
	*				USES T1, CM - CM+4, AA - AA+4, BB - BB+4, EJ - EJ+4,			1SJ	1942
	*				TM - TM+4, NC.			1SJ	1943
	*							1SJ	1944
	*				CALLS RJC.			1SJ	1945
	*							271L716	447
	*				MACROS ISTORE.			273L780	43
								1SJ	1946
								1SJ	1947
		4353	0100	4353	PRS	SUBR	ENTRY/EXIT	1SJ	1948
		4355	2000	0134		LDK	PCPP	273L780	44
		4357	6010			CRD	CM	273L780	45
		4360	3013			LDD	CM+3	273L780	46
		4361	1014			SHN	14	273L780	47
		4362	3314			LMD	CM+4	273L780	48
		4363	2177	7577		SBK	200B	273L780	49
		4365	5400	2231		STM	CCAA+1	273L780	50
		4367	1063			SHN	-14	273L780	51
		4370	2300	2100		LMC	ADCI	273L780	52
		4372	5400	2230		STM	CCAA	273L780	53
		4374	3012			LDD	CM+2	271L716	450
				0		ERRNZ	MCTP-PCPP	271L716	451
		4375	5400	1673		STM	BSTB	271L716	452
		4377	1474			LDN	EJTP	1SJ	1949
		4400	6010			CRD	CM	1SJ	1950
		4401	3011			LDD	CM+1	1SJ	1951
		4402	5400	2513		STM	EJAA	1SJ	1952
		4404	5400	3170		STM	SFJD	1SJ	1953
		4406	3010			LDD	CM	1SJ	1954
		4407	5500	2512		RAM	EJAA-1	1SJ	1955
		4411	1277			LPN	77	1SJ	1956
		4412	5500	3167		RAM	SFJD-1	1SJ	1957
		4414	3712			SOD	CM+2	NS2153	34
		4415	5400	3122		STM	SFJS	NS2153	35
		4417	2000	0112		LDK	LOSL	NS2153	36
		4421	6010			CRD	CM	NS2153	37
		4422	3014			LDD	CM+4	NS2153	38
		4423	5400	4004		STM	SFJA	1SJ	1959
		4425	5400	3127		STM	SFJT	NS2153	39
		4427	2000	0106		LDC	RTCL	1SJ	1960
		4431	6025			CRD	TM	1SJ	1961
		4432	3052			LDD	IR+2	1SJ	1962
		4433	5500	1102		RAM	SCJA	271L716	453
		4435	3074			LDD	CP	1SJ	1964
		4436	1070			SHN	-7	1SJ	1965
		4437	3466			STD	NC	1SJ	1966
		4440	2000	0124		LDC	INWL	1SJ	1967
		4442	6010			CRD	CM	1SJ	1968
		4443	3013			LDD	CM+3	1SJ	1969
		4444	1277			LPN	77	271L716	454
		4445	5500	1104		RAM	SCJB	271L716	455
		4447	1210			LPN	10	1SJ40	3
		4450	0405			ZJN	PRS0	1SJ40	4
		4451	5000	4556		LDM	PRSB	1SJ40	5
		4453	5400	3267		STM	SFJV	1SJ40	6
		4455	1445		PRS0	LDN	SSTL	1SJ40	7

4456	6010		CRD	CM		1SJ	1972
4457	3010		LDD	CM		1SJ	1973
4460	1014		SHN	21-5		1SJ	1974
4461	0705		MJN	PRS0.1	IF USER ECS DISABLED	271L716	456
4462	5000	4555	LDM	PRSA		1SJ	1976
4464	5400	3370	STM	SFJF		1SJ	1977
4466	3013		PRS0.1	LDD	CM+3	271L716	457
4467	1007		SHN	21-12		271L716	458
4470	0605		PJN	PRS1	IF FLEXIBLE PARTITIONING ENABLED	271L716	459
4471	2000	0000	ISTORE	SFJW,(UJN SFJX)	DISABLE POST-REJECT SCHEDULING	271L716	460
						1SJ	1978
			*	BUILD	*TEPB*, *TJAM* TABLES.	1SJ	1979
						1SJ	1980
4475	1422		PRS1	LDN	MXJC-1 INITIALIZE INDEX	1SJ	1981
4476	3401		STD	T1		1SJ	1982
4477	0200	4332	PRS2	RJM	RJC CALCULATE JCB ADDRESS	1SJ	1983
4501	1601		ADN	EXQT	READ *EXQT* WORD OF JCB	1SJ	1984
4502	6020		CRD	AA		1SJ	1985
4503	1602		ADN	SVJT-EXQT	READ *SVJT* WORD OF JCB	1SJ	1986
4504	6010		CRD	CM		1SJ	1987
4505	1601		ADN	MCMT-SVJT	READ *MCMT* WORD OF JCB	1SJ	1988
4506	6027		CRD	BB		1SJ	1989
4507	1601		ADN	MECT-MCMT	READ *MECT* WORD OF JCB	1SJ	1990
4510	6050		CRD	EJ		1SJ	1991
4511	3021		LDD	AA+1		1SJ	1994
4512	5401	6662	STM	TEPB,T1		271L716	461
4514	3022		LDD	AA+2		1SJ	1996
4515	5401	6705	STM	TEPB+1*MXJC,T1		271L716	462
4517	3023		LDD	AA+3		1SJ	1998
4520	5401	6730	STM	TEPB+2*MXJC,T1		271L716	463
4522	3024		LDD	AA+4		1SJ	2000
4523	5401	6753	STM	TEPB+3*MXJC,T1		271L716	464
4525	3013		LDD	CM+3		1SJ	2002
4526	5401	6500	STM	TJAM,T1		1SJ	2003
4530	3031		LDD	BB+2		1SJ	2004
4531	5401	6523	STM	TJAM+1*MXJC,T1		1SJ	2005
4533	3032		LDD	BB+3		1SJ	2006
4534	5401	6546	STM	TJAM+2*MXJC,T1		1SJ	2007
4536	3033		LDD	BB+4		1SJ	2008
4537	5401	6571	STM	TJAM+3*MXJC,T1		1SJ	2009
4541	3052		LDD	EJ+2		1SJ	2010
4542	5401	6614	STM	TJAM+4*MXJC,T1		1SJ	2011
4544	3054		LDD	EJ+4		1SJ	2012
4545	5401	6637	STM	TJAM+5*MXJC,T1		1SJ	2013
4547	3701		SOD	T1	DECREMENT JCB INDEX	1SJ	2014
4550	0703		MJN	PRS3	IF ALL JCB-S HAVE BEEN PROCESSED	1SJ	2015
4551	0100	4477	LJM	PRS2	GO PROCESS NEXT JCB	1SJ	2016
						1SJ	2017
4553	0100	4353	PRS3	LJM	PRSX RETURN	271L716	465
						1SJ	2019
4555			PRSA	BSS	0	1SJ	2020
L 3370			LOC	SFJF		1SJ	2021
L 3370	0310		UJN	SFJ12.2	(USER ECS ENABLED)	NS22000	162
4556			LOC	*0		1SJ	2023
						1SJ40	8
4556			PRSB	BSS	0	1SJ40	9
L 3267			LOC	SFJV		1SJ40	10

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L 3267
4557

0304

UJN SFJ6
LOC *0

(DEADSTART SEQUENCING JOB NOT RUN)

1SJ40 11
1SJ40 12

1										1
2										2
3										3
4			*	OVERFLOW CHECKS.				1SJ	2025	4
5								1SJ	2026	5
6		1721	ERRNG	TJAM-*	CHECK FOR	*TJAM*/*TEPB* OVERFLOWING	*PRS*	1SJ	2027	6
7										7
8										8
9										9
10										10
11				USE	OVERFLOW			1SJ	2029	11
12				OVERFLOW				1SJ	2030	12
13										13
14								OVERFLOW.1		14
15		3105	ERRNG	.2-.1+5-.3/500B*500B	BYTES LEFT AFTER LAST SECTOR			OVERFLOW.1		15
16		114	ERRNG	.3/500B*500B-*.1-5	BYTES LEFT IN LAST SECTOR			OVERFLOW.1		16
17		3214	ERRNG	.4/500B*500B-*.1-5	BYTES CAN BE ADDED TO OVERLAY			OVERFLOW.1		17
18		6	ERRNG	.3/500B	SECTORS NEEDED FOR OVERLAY			OVERFLOW.1		18
19								OVERFLOW.1		19
20				LIST	*			OVERFLOW.1		20
21										21
22										22
23										23
24										24
25										25
26										26
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60										60

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M_M

IDENT 3SA,03SA SCHEDULE SUBSYSTEM.

1SJ 2033

BASE M

1SJ 2034

SST

1SJ 2036

COMMENT 82/02/26. 96/06/05. 1SJ - SCHEDULE SUBSYSTEM.

1SJ 2037

COMMENT COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.

281L803 2

4360

ORG 03SA

1SJ 2039

QUAL 3SA

1SJ 2040

1

QUAL\$

SET 1

1SJ 2041

** SSS - SCHEDULE SUBSYSTEM.

1SJ 2043

*

1SJ 2044

*

READ THE SYSTEM SECTOR OF THE INPUT FILE OR THE ROLLOUT

1SJ 2045

*

FILE, DEPENDING ON WHETHER JOB STATUS IS *PRJS* OR *ROJS*,

1SJ 2046

*

RESPECTIVELY. OBTAIN THE SUBSYSTEM IDENTIFICATION NUMBER

1SJ 2047

*

FROM THE SYSTEM SECTOR AND USE IT TO CHECK THE *SSCT* TABLE

1SJ 2048

*

FOR A SPECIFIED CONTROL POINT TO WHICH THE SUBSYSTEM SHOULD

1SJ 2049

*

BE SCHEDULED. IF NO CONTROL POINT IS SPECIFIED, USE THE

271L716 466

*

ONE INDICATED BY CELL *JC*. IF INSUFFICIENT

271L716 467

*

MEMORY FOR THE SUBSYSTEM, CALL ROUTINE *CFL* TO INITIATE

1SJ 2052

*

ROLLOUT OF LOWER PRIORITY JOBS. IF THE CONTROL POINT AND

1SJ 2053

*

MEMORY ARE AVAILABLE, CALL ROUTINE *ASJ* TO ASSIGN THE

1SJ 2054

*

SUBSYSTEM TO THE CONTROL POINT AND CALL *1RI* OR *1AJ*.

1SJ 2055

*

1SJ 2056

*

ENTRY (EO) = (EP) = EJT ORDINAL OF SUBSYSTEM.

1SJ 2057

*

(SP) = SERVICE CLASS (*SSSC*).

1SJ 2058

*

(AM - AM+1) = AVAILABLE + ROLLING CM.

1SJ 2059

*

(AE) = AVAILABLE + ROLLING ECS.

1SJ 2060

*

(RM - RM+1) = ROLLING CM.

1SJ 2061

*

(JC) = NUMBER OF AVAILABLE CONTROL POINT. ZERO IF

271L716 468

*

NONE AVAILABLE.

271L716 469

*

(JM) = REQUIRED CM FL.

1SJ 2063

*

(JE) = REQUIRED ECS.

1SJ 2064

*

(JP) = SCHEDULING PRIORITY.

1SJ 2065

*

(TE) = LWA OF *TACP* TABLE.

1SJ 2066

*

(TM - TM+1) = SECONDS PORTION OF REAL TIME CLOCK.

1SJ 2067

*

(NC) = SYSTEM CONTROL POINT NUMBER.

1SJ 2068

*

1SJ 2069

*

EXIT (A) = 0 IF THE SUBSYSTEM WAS SCHEDULED.

1SJ 2070

*

.NE. 0 IF SUBSYSTEM WAS NOT SCHEDULED.

271L716 470

*

1SJ 2072

*

USES EO, JC, JE, JF, SI, SP, TP, AA - AA+4, BB - BB+4,

271L716 471

*

CM - CM+4, EJ - EJ+4, T1 - T7.

271L716 472

*

1SJ 2075

*

CALLS ASJ, AST, CFL, EJA, IRR, IUT, RSS, SCI, SCP.

NS2707 1

*

1SJ 2077

*

MACROS ENDMS, MONITOR, SETMS.

1SJ 2078

1SJ 2079

1SJ 2080

4360 0100 4360

SSS

SUBR

ENTRY/EXIT

1SJ 2081

4362 1400

LDK

/CPS/SFIN

SET EJT INTERLOCK

NS2707 2

4363 0200 4676

RJM

SCI

NS2707 3

4365 0572

NJN

SSSX

IF TIMEOUT OR ENTRY NOT IN USE

NS2707 4

4366 0200 2507

RJM

EJA

CALCULATE EJT ENTRY ADDRESS

1SJ 2082

ADK JSNE

1SJ 2083

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4370	6050		CRD	EJ		1SJ	2084
4371	1601		ADN	SCHE-JSNE	READ *SCHE* SO THAT (T6) = LOGICAL TRACK	1SJ	2085
4372	6005		CRD	T5		1SJ	2086
4373	1601		ADN	PRFE-SCHE		1SJ42	1
4374	6027		CRD	BB		1SJ42	2
4375	3054		LDD	EJ+4	SAVE JOB STATUS	1SJ30	1
4376	1276		LPN	76		1SJ30	2
			LMK	PRJS*2		1SJ30	3
4377	5400	4473	STM	SSSA		271L716	474
						1SJ	2087
			*		READ SYSTEM SECTOR OF INPUT FILE OR ROLLOUT FILE.	1SJ	2088
						1SJ	2089
4401	1400		SETMS	IO		242L642	60
4404	1400		LDN	0		1SJ	2091
4405	3443		STD	TP		271L716	475
4406	0200	5160	RJM	RSS	READ SYSTEM SECTOR	1SJ	2092
4410	0515		NJN	SSS2	IF I/O ERROR	271L716	476
4411	0200	0535	ENDMS			1SJ	2094
4413	5000	7137	LDM	SISS		NS21000	7
4415	2300	7764	LMC	RDSI		NS21000	8
4417	0504		NJN	SSS1	IF NOT *RDF*	271L716	477
4420	1501		LCN	7777-IFSI	TREAT AS *IAF*	242L642	61
4421	5400	7137	STM	SISS		NS21000	11
4423	0100	4463	SSS1	LJM	SSS4	271L716	478
						1SJ	2096
			*		AN I/O ERROR OCCURRED WHILE READING THE SYSTEM SECTOR OR THE	1SJ	2097
			*		SUBSYSTEM IS ALREADY ACTIVE OR THE REQUIRED CONTROL POINT IS	1SJ	2098
			*		OCCUPIED BY ANOTHER SUBSYSTEM. SET AN ERROR FLAG IN THE EJT	1SJ	2099
			*		ENTRY AND CONTINUE. THE JOB WILL BE ABORTED BY *1AJ*.	1SJ	2100
						1SJ	2101
4425	3050		SSS2	LDD	EJ	271L716	479
4426	3413		STD	CM+3	SET *SSET* ERROR FLAG IN EJT	1SJ	2103
4427	3051		LDD	EJ+1		1SJ	2104
4430	3414		STD	CM+4		1SJ	2105
4431	3034		LDD	E0		1SJ	2106
4432	3412		STD	CM+2		1SJ	2107
4433	2000	4032	LDC	SSET+4000		1SJ	2108
4435	3411		STD	CM+1		1SJ	2109
4436	1454		MONITOR	CEFM		1SJ	2110
4441	1401		LDN	1	SELECT NO QFT OPTION ON *RJSM*	1SJ	2115
4442	3411		STD	CM+1		1SJ	2116
4443	1474		MONITOR	RJSM	GET JSN	1SJ	2117
4446	3013		LDD	CM+3		1SJ	2118
4447	5400	4656	STM	SSSB+3		271L716	480
4451	3014		LDD	CM+4		1SJ	2120
4452	5400	4657	STM	SSSB+4		271L716	481
4454	2001	4653	LDC	SSSB+1*10000		271L716	482
4456	0200	2642	RJM	IUT	ISSUE *UTEM*	1SJ	2123
4460	1400		LDN	0		242L642	62
4461	0100	4536	SSS3	LJM	SSS8	271L716	483
						1SJ	2125
			*		GET CP NUMBER (IF ANY) FROM SSCT AND CHECK SSAT TO SEE IF THE	1SJ	2126
			*		SUBSYSTEM IS ALREADY ACTIVE.	1SJ	2127
			*		FOR *DSP* INITIATED SUBSYSTEMS, CP NUMBER AND SSID ARE TAKEN	NS22000	164
			*		FROM THE SYSTEM SECTOR.	NS22000	165
4463	5000	7137	SSS4	LDM	SISS	1SJ	2128
						271L716	484

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4465	2177	0000		SBK	DSSI		NS2181B	12
4467	0471			ZJN	SSS3	IF DEADSTART SEQUENCING JOB	271L716	485
4470	1631			SBK	LSSI+1-DSSI		NS2181B	14
4471	0730			MJN	SSS6	IF SUBSYSTEM NOT IN SSCT	271L716	486
4472	2000	0000		LDC	**	(JOB STATUS)	1SJ30A	44
			4473	SSSA	EQU	*-1	271L716	487
4474	0517			NJN	SSS5	IF NOT PRE-INITIAL JOB STATE	271L716	488
4475	2004	0000		LDC	FEAF*10000		1SJ	2133
4477	5300	7137		LMM	SISS		1SJ	2134
4501	0200	4726		RJM	AST	GET SSAT ENTRY	1SJ	2135
4503	0410			ZJN	SSS5	IF SUBSYSTEM IS INACTIVE	271L716	489
4504	2000	7750		LDC	PLSI	CHECK FOR CYBIS	NS2746	3
4506	5300	7137		LMM	SISS		NS2244	11
4510	0403			ZJN	SSS5	IF INITIATING CYBIS	NS2746	4
4511	0100	4425		LJM	SSS2	SET ERROR FLAG	271L716	491
							271L716	492
4513	5000	7137		SSS5	LDM	SISS	271L716	493
				*	LMK	FECF*10000	271L716	494
			0	ERRNZ	FECF	CODE DEPENDS ON VALUE	271L716	495
4515	0200	4726		RJM	AST	GET SSCT ENTRY	1SJ	2141
4517	1237			LPN	37		1SJ	2142
4520	3443			STD	TP		271L716	496
4521	5000	7140		SSS6	LDM	CPSS	271L716	497
4523	0411			ZJN	SSS7	CHECK SYSTEM SECTOR FOR CONTROL POINT	NS2785	1
						IF CONTROL POINT NOT SPECIFIED		
4524	1177			LMN	77		NS2785	2
4525	0411			ZJN	SSS8	IF ANY AVAILABLE CONTROL POINT SELECTED	NS2785	3
4526	1177			LMN	77		NS2785	4
4527	3266			SBD	NC		1SJ30A	52
4530	0717			MJN	SSS10	IF CORRECT CONTROL POINT SPECIFIED	NS2785	5
4531	1400			LDN	0	CLEAR INCORRECT CP NUMBER	NS2785	6
4532	5400	7140		STM	CPSS		1SJ30A	57
4534	3043			SSS7	LDD	TP	NS2785	7
4535	0513			NJN	SSS10.1	IF CONTROL POINT SPECIFIED IN SSCT	NS2785	8
4536	0200	2741		SSS8	RJM	SCP	271L716	503
4540	0520			NJN	SSS11	SELECT CONTROL POINT	271L716	504
4541	1440			SSS9	LDK	/CPS/CFIN	NS2707	5
4542	0200	4676		RJM	SCI	CLEAR EJT INTERLOCK	NS2707	6
4544	1401			LDN	1	INDICATE SUBSYSTEM NOT SCHEDULED	NS2707	7
4545	0100	4360		LJM	SSSX	RETURN	1SJ30A	66
							1SJ	2152
			*			SCHEDULE THE SUBSYSTEM TO THE SPECIFIED CONTROL POINT.	1SJ30	14
			*			IF IT IS OCCUPIED BY A ROLLABLE JOB WITH A LOWER PRIORITY,	1SJ30	15
			*			THAT JOB WILL BE ROLLED OUT. IF IT IS OCCUPIED BY A ROLLABLE	1SJ30B	1
			*			JOB WITH A HIGHER PRIORITY OR BY A NON-ROLLABLE JOB, THE	NS2707	8
			*			SUBSYSTEM JOB STATE WILL BE SET TO *PWJS*, WAITING ON EVENT	NS2707	9
			*			*SSWE*.	NS2707	10
							1SJ30	22
4547	3166			SSS10	ADD	NC	NS2785	9
4550	3463			SSS10.1	STD	JC	NS2785	10
4551	1007			SHN	7		1SJ	2154
4552	1626			ADN	JCIW		1SJ	2155
4553	6020			CRD	AA		1SJ	2156
4554	1644			ADN	TFSW-JCIW		1SJ	2157
4555	6010			CRD	CM		1SJ	2158
4556	3010			LDD	CM		1SJ	2159
4557	0503			NJN	SSS12	IF CONTROL POINT IS OCCUPIED	271L716	511
4560	0100	4622		SSS11	LJM	SCHEDULE JOB	271L716	512

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4562	3434		SSS12	STD	E0	STORE EJT ORDINAL FOR *EJA*	271L716	513
4563	0200 2507			RJM	EJA	CALCULATE EJT ENTRY ADDRESS	271L716	514
4565	1601			ADN	SCHE		1SJ	2162
4566	6010			CRD	CM		1SJ	2163
4567	3067			LDD	EP	RESTORE EJT ORDINAL	1SJ	2164
4570	3434			STD	E0		1SJ	2165
4571	3022			LDD	AA+2		1SJ	2166
4572	0420			ZJN	SSS16	IF ROLLOUT ALLOWED	NS2244	18
4573	1103			LMN	ORSI		271L716	515
4574	0416			ZJN	SSS16	IF ROLLOUT NOT INHIBITED	1SJ30B	10
4575	5000 7137			LDM	SISS		271L716	516
4577	2300 7776			LMC	IFSI		1SJ30B	12
4601	0503			ZJP	SSS2	IF IAF	271L716	517
4604	2002 4660			LDC	SSSD+SSSDL*10000		271L716	518
4606	0200 2642			RJM	IUT	SET SUBSYSTEM TO *PWJS*	NS2707	11
4610	0100 4541			UJP	SSS9	TERMINATE	NS2707	12
4612	3062		SSS16	LDD	JP		NS2707	13
4613	3214			SBD	CM+4		271L716	522
4614	0704			MJN	SSS17	IF JOB AT CP HAS HIGHER PRIORITY	271L716	523
4615	3063			LDD	JC		1SJ	2170
4616	0200 2621			RJM	IRR	REQUEST ROLLOUT OF JOB	271L716	524
4620	0100 4541		SSS17	LJM	SSS9	TERMINATE	1SJ	2172
4622	0200 2257		SSS18	RJM	CFL	COMMIT FIELD LENGTH	1SJ	2173
							271L716	525
			*		ASSIGN JOB IF SUFFICIENT CM.		271L716	526
							NS22000	189
4624	3037			LDD	AM		NS22000	190
4625	3244			SBD	RM		NS22000	191
4626	1014			SHN	14		NS22000	192
4627	3340			LMD	AM+1		1SJ	2188
4630	3245			SBD	RM+1		1SJ	2189
4631	3264			SBD	JM		1SJ	2190
4632	0765			MJN	SSS17	IF INSUFFICIENT AVAILABLE CM	1SJ	2191
4633	1440			LDK	/CPS/CFIN	CLEAR EJT INTERLOCK	1SJ	2192
4634	0200 4676			RJM	SCI		271L716	527
4636	0200 2507			RJM	EJA	CHECK FOR AN ERROR FLAG IN THE EJT ENTRY	NS2707	14
4640	1602			ADK	PRFE		NS2707	15
4641	6010			CRD	CM		1SJ21	1
4642	3011			LDD	CM+1		1SJ21	2
4643	1132			LMN	SSET		1SJ21	3
4644	0503			NJN	SSS19	IF NOT A SUBSYSTEM ABORT ERROR FLAG	1SJ21	4
4645	1402			LDN	BCSC	PREVENT AN UPDATE OF THE *SSAT* TABLE	1SJ21	5
4646	3461			STD	SP		271L716	528
4647	0200 1257		SSS19	RJM	ASJ	ASSIGN JOB TO CONTROL POINT	1SJ21	7
4651	0100 4360			LJM	SSSX	RETURN	1SJ21	8
							271L716	529
			*		*UTEM* PARAMETERS FOR JSN CHANGE.		NS2707	16
4653	0030		SSSB	VFD	1/0,5/JSNE,6/24D		1SJ	2196
4654	4400			VFD	6/36D,6/0		1SJ	2197
4655	0000			CON	0		1SJ	2198
4656	0000			CON	0		271L716	531
4657	0000			CON	0		1SJ	2200
							1SJ	2201
							1SJ	2202
							1SJ	2203
							NS2707	17

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* *UTEM* PARAMETERS TO SET *PWJS*.

							NS2707	18	
							NS2707	19	
	4660	0136	SSSD	VFD	1/0,5/SCHE,6/30D		NS2707	20	
1	4661	0000		VFD	6/0,6/0		NS2707	21	
2	4662	0000		VFD	6/0,6/0		NS2707	22	
3	4663	5000		VFD	3/5,9/0		NS2707	23	
4	4664	0035		CON	SSWE	SUBSYSTEM WAITING EVENT	NS2707	24	
5							NS2707	25	
6	4665	0005		VFD	1/0,5/JSNE,6/5		NS2707	26	
7	4666	0100		VFD	6/1,6/0		NS2707	27	
8	4667	0000		CON	0		NS2707	28	
9	4670	0000		CON	0		NS2707	29	
10	4671	0014		CON	PWJS		NS2707	30	
11							NS2707	31	
12			2	SSSDL	EQU	*/5-SSSD/5	NS2707	32	
13									
14									
15									
16									
17			**		SCI - SET/CLEAR EJT INTERLOCK.		NS2707	34	
18			*				NS2707	35	
19			*		ENTRY (A) = INTERLOCK FUNCTION.		NS2707	36	
20			*				NS2707	37	
21			*		EXIT (A) = 0 IF SUCCESSFUL.		NS2707	38	
22			*				NS2707	39	
23			*		USES T0, T1, T4.		NS2707	40	
24			*				NS2707	41	
25			*		CALLS EJA, SFI.		NS2707	42	
26			*				NS2707	43	
27			*		MACROS DELAY, PAUSE.		NS2707	44	
28							NS2707	45	
29							NS2707	46	
30	4672	3704	SCI3	SOD	T4		NS2707	47	
31	4673	0507		NJN	SCI1	IF NOT TIMEOUT	NS2707	48	
32	4674	1401	SCI4	LDN	1	INDICATE FAILURE	NS2707	49	
33							NS2707	50	
34	4675	0100	4675	SCI	SUBR	ENTRY/EXIT	NS2707	51	
35	4677	3401		STD	T1	SAVE INTERLOCK FUNCTION	NS2707	52	
36	4700	1412		LDK	10D	SET RETRY COUNTER	NS2707	53	
37	4701	3404		STD	T4		NS2707	54	
38	4702	0200	2507	SCI1	RJM	EJA	GET EJT ADDRESS	NS2707	55
39	4704	0200	5235		RJM	SFI	SET/CLEAR INTERLOCK	NS2707	56
40	4706	0466		ZJN	SCIX	IF REQUEST SUCCESSFUL	NS2707	57	
41	4707	1702		SBN	2		NS2707	58	
42	4710	0663		PJN	SCI4	IF ENTRY NOT IN USE	NS2707	59	
43	4711	3071		LDD	HN	DELAY FOR 128*64 MICROSECONDS	NS2707	60	
44	4712	3400		STD	T0		NS2707	61	
45	4713	5000	0255	SCI2	DELAY		NS2707	62	
46	4717	1400		PAUSE	NE		NS2707	63	
47	4722	3700		SOD	T0		NS2707	64	
48	4723	0667		PJN	SCI2	IF MORE DELAY	NS2707	65	
49	4724	0345		UJN	SCI3	CHECK FOR TIMEOUT	NS2707	66	
50									
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* COMMON DECKS.

1SJ 2205
1SJ 2206
1SJ 2207

1												1
2	4725	1	SUB\$	EQU	1	ASSEMBLE *SUBSYST* MACRO CALLS	V22L602	24				2
3				CTEXT	COMSSSD	- SUBSYSTEM DEFINITIONS.	COMSSSD	1				3
4		1	AST\$	SET	1	ASSEMBLE ALL FUNCTIONS OF *COMPAST*	1SJ	2208				4
5				LIST	X		1SJ	2209				5

6												6
7												7
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4725

CTEXT COMPAST - ACCESS SUBSYSTEM TABLES.

COMPAST 1

1										1
2										2
3										3
4										4
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60										60

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	**			*AST* PROVIDES THE CALLER WITH A MEANS OF ACCESSING	COMPAST	13
	*			THE SSCT AND SSAT SUBSYSTEM TABLES. AN ENTRY FOR A PARTICULAR	COMPAST	14
	*			SUBSYSTEM MAY BE READ OR MODIFIED. MODIFICATION IS PERFORMED	COMPAST	15
1	*			VIA THE *UTEM* MONITOR FUNCTION WITH PRIOR VERIFICATION	COMPAST	16
2	*			PERFORMED FOR SSAT UPDATES. USE OF ANY OF THE MODIFICATION	COMPAST	17
3	*			FUNCTIONS (FUNCTIONS *SECF*, *CSCF*, *SSCF*, *CEAF*, AND	COMPAST	18
4	*			*SEAF*) REQUIRES DEFINITION OF *AST\$*.	COMPAST	19
5	*				COMPAST	20
6	*			*AST* PERFORMS THE FOLLOWING FUNCTIONS -	COMPAST	21
7	*			FECF FETCH SSCT ENTRY.	COMPAST	22
8	*			SECF STORE CP NUMBER IN SSCT ENTRY.	COMPAST	23
9	*			CSCF CLEAR SUBSYSTEM ACCESS FLAG (BIT 11D)	COMPAST	24
10	*			OF SSCT ENTRY.	COMPAST	25
11	*			SSCF SET SUBSYSTEM ACCESS FLAG (BIT 11D) OF	COMPAST	26
12	*			SSCT ENTRY.	COMPAST	27
13	*			FEAF FETCH SSAT ENTRY.	COMPAST	28
14	*			CEAF CLEAR SSAT ENTRY (RELEASE EJT ASSIGNMENT).	COMPAST	29
15	*			SEAF CREATE SSAT ENTRY (ASSIGN EJT).	COMPAST	30
16	*				COMPAST	31
17	*			ENTRY (A) = 6/ FC,12/ SSID	COMPAST	32
18	*			FC FUNCTION CODE.	COMPAST	33
19	*			SSID SUBSYSTEM IDENTIFICATION NUMBER.	COMPAST	34
20	*			(T1) = CONTROL POINT NUMBER (FUNCTION *SECF*).	COMPAST	35
21	*			= EJT ORDINAL (FUNCTION *SEAF*).	COMPAST	36
22	*				COMPAST	37
23	*			EXIT (A) = SSCT ENTRY (FUNCTION *FECF*).	COMPAST	38
24	*			(A) .NE. 0 IF SUBSYSTEM ACCESSIBLE FLAG IS ALREADY	COMPAST	39
25	*			CLEAR (FUNCTION *CSCF*).	COMPAST	40
26	*			(A) .NE. 0 IF SUBSYSTEM ACCESSIBLE FLAG IS ALREADY	COMPAST	41
27	*			SET (FUNCTION *SSCF*).	COMPAST	42
28	*			(A) = SSAT ENTRY (FUNCTION *FEAF*).	COMPAST	43
29	*			(A) .NE. 0 IF SSAT ENTRY IS ALREADY CLEAR	COMPAST	44
30	*			(FUNCTION *CEAF*).	COMPAST	45
31	*			(A) .NE. 0 IF SSAT ENTRY IS ALREADY NON-ZERO	COMPAST	46
32	*			(FUNCTION *SEAF*).	COMPAST	47
33	*				COMPAST	48
34	*			USES T1 - T4, CM - CM+4.	COMPAST	49
35	*				COMPAST	50
36	*			MACROS MONITOR.	COMPAST	51
37	*				COMPAST	52
38	*			HANG CONDITIONS -	COMPAST	53
39	*			ATTEMPT TO EXECUTE TABLE UPDATE FUNCTION WITHOUT	COMPAST	54
40	*			*AST\$* DEFINED.	COMPAST	55
41	*			INVALID FUNCTION CODE.	COMPAST	56
42					COMPAST	57
43					COMPAST	58
44	4725	0100 4725	AST	SUBR	ENTRY/EXIT	COMPAST 59
45	4727	3403		STD T3	SAVE SUBSYSTEM IDENTIFICATION NUMBER	COMPAST 60
46	4730	1063		SHN -14	SAVE FUNCTION CODE	COMPAST 61
47	4731	3402		STD T2		COMPAST 62
48	4732	2000 7776		LDC MXSI	SAVE SUBSYSTEM INDEX	COMPAST 63
49	4734	3203		SBD T3		COMPAST 64
50	4735	3403		STD T3		COMPAST 65
51						COMPAST 66
52			AST\$	IF DEF,AST\$		COMPAST 67
53	4736	1400		LDN 0		COMPAST 68
54	4737	5400 5073		STM ASTA		COMPAST 69

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1

Line	Address	Length	Label	Code	Offset	Description	Page
			AST\$	ENDIF			70
			*	COMPUTE SSCT CM WORD AND BYTE OFFSET.			71
							72
1							73
2	4741	1500		LCN	0		74
3	4742	3404		STD	T4		75
4	4743	3604	AST1	AOD	T4	INCREMENT CM WORD OFFSET	76
5	4744	1505		LCN	5		77
6	4745	3503		RAD	T3		78
7	4746	0674		PJN	AST1	IF COMPUTATION INCOMPLETE	79
8	4747	1605		ADN	5		80
9	4750	3403		STD	T3	SET BYTE OFFSET	81
							82
			*	DETERMINE IF SSAT ACCESS REQUIRED.			83
							84
13	4751	3002		LDD	T2		85
14	4752	1704		SBN	MNAF		86
15	4753	0703		MJN	AST2	IF NO SSAT ACCESS REQUIRED	87
16	4754	1405		LDN	SSCTL	POSITION AT SSAT	88
17	4755	3504		RAD	T4		89
							90
			*	READ SSCT/SSAT WORD CONTAINING THE TARGET ENTRY.			91
							92
21	4756	2000 0135	AST2	LDC	SSCP		93
22	4760	6010		CRD	CM		94
23	4761	3012		LDD	CM+2		95
24	4762	1014		SHN	14		96
25	4763	3313		LMD	CM+3		97
26	4764	3104		ADD	T4		98
27	4765	6170 5140		CRM	ASTD,ON		99
28	4767	3002		LDD	T2		100
29	4770	1707		SBN	MAXF		101
30	4771	0604		PJN	AST3	INVALID FUNCTION CODE	102
31	4772	5002 5145		LDM	TAST,T2		103
32	4774	0505		NJN	AST4	IF VALID FUNCTION CODE	104
33	4775	1422	AST3	MONITOR	HNGM	HANG PP	105
34	5000	0300		UJN	*		106
							107
36	5001	3410	AST4	STD	CM		108
37	5002	0110 0000		LJM	0,CM	GO TO FUNCTION PROCESSOR	109
							110
			*	PROCESS *FECF*/*FEAF* FUNCTIONS. FETCH SSCT/SSAT ENTRY.			111
							112
41	5004	5003 5140	AST5	LDM	ASTD,T3	FETCH SSCT/SSAT ENTRY	113
42	5006	0100 4725		LJM	ASTX	RETURN	114
							115
			.A	IF	DEF,AST\$		116
							117
			*	PROCESS *SECF* FUNCTION. STORE CP NUMBER IN SSCT ENTRY.			118
							119
48	5010	3001	AST6	LDD	T1	STORE CP NUMBER IN *UTEM* PARAMETERS	120
49	5011	5400 5137		STM	ASTC+4		121
50	5013	5003 5140		LDM	ASTD,T3	STORE VERIFY VALUE IN *UTEM* PARAMETERS	122
51	5015	5400 5132		STM	ASTB+4		123
52	5017	1405		LDN	5	SET FIELD SIZE	124
53	5020	0336		UJN	AST12	GO TO COMMON CODE	125
							126

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				*	PROCESS *CSCF*/*SSCF* FUNCTIONS. CLEAR/SET SUBSYSTEM ACCESS FLAG.	COMPAST	127
				*		COMPAST	128
						COMPAST	129
1	5021	3002		AST7	LDD T2	STORE INTENDED VALUE IN *UTEM* PARAMETERS	COMPAST 130
2	5022	1702			SBN CSCF		COMPAST 131
3	5023	5400 5137			STM ASTC+4		COMPAST 132
4	5025	1101			LMN 1	STORE VERIFY VALUE IN *UTEM* PARAMETERS	COMPAST 133
5	5026	5400 5132			STM ASTB+4		COMPAST 134
6	5030	1413			LDN 11D	BIAS LOW ORDER BIT POSITION	COMPAST 135
7	5031	5400 5073			STM ASTA		COMPAST 136
8	5033	1401			LDN 1	STORE FIELD SIZE IN *UTEM* PARAMETERS	COMPAST 137
9	5034	0322			UJN AST12	GO TO COMMON CODE	COMPAST 138
10							COMPAST 139
11				*	PROCESS *CEAF* FUNCTION. CLEAR SSAT ENTRY.		COMPAST 140
12							COMPAST 141
13	5035	1400		AST8	LDN 0		COMPAST 142
14	5036	3401			STD T1		COMPAST 143
15	5037	5003 5140			LDM ASTD,T3		COMPAST 144
16	5041	0507			NJN AST11	IF SSAT ENTRY NOT ALREADY CLEAR	COMPAST 145
17	5042	1401			LDN 1	INDICATE POSSIBLE ERROR CONDITION	COMPAST 146
18	5043	0100 4725		AST9	LJM ASTX	RETURN	COMPAST 147
19							COMPAST 148
20				*	PROCESS *SEAF* FUNCTION. CREATE SSAT ENTRY.		COMPAST 149
21							COMPAST 150
22	5045	5003 5140		AST10	LDM ASTD,T3		COMPAST 151
23	5047	0573			NJN AST9	IF SSAT ENTRY ALREADY NON-ZERO	COMPAST 152
24	5050	5400 5132		AST11	STM ASTB+4	STORE VERIFY VALUE IN *UTEM* PARAMETERS	COMPAST 153
25	5052	3001			LDD T1	STORE INTENDED VALUE IN *UTEM* PARAMETERS	COMPAST 154
26	5053	5400 5137			STM ASTC+4		COMPAST 155
27	5055	1414			LDN 12D	STORE FIELD SIZE IN *UTEM* PARAMETER BLOCK	COMPAST 156
28	5056	5400 5133		AST12	STM ASTC		COMPAST 157
29	5060	2100 4000			ADC 4000	SET VERIFY BIT	COMPAST 158
30	5062	5400 5126			STM ASTB		COMPAST 159
31	5064	1404			LDN 4	CALCULATE LOW ORDER BIT OF BYTE	COMPAST 160
32	5065	3203			SBD T3		COMPAST 161
33	5066	3403			STD T3		COMPAST 162
34	5067	1001			SHN 1		COMPAST 163
35	5070	3503			RAD T3		COMPAST 164
36	5071	1002			SHN 2		COMPAST 165
37	5072	2100 0000			ADC **		COMPAST 166
38			5073	ASTA	EQU *-1	(LOW ORDER BIT BIAS)	COMPAST 167
39	5074	1006			SHN 6		COMPAST 168
40	5075	5400 5127			STM ASTB+1		COMPAST 169
41	5077	5400 5134			STM ASTC+1		COMPAST 170
42	5101	1402			LDN 2	FINISH SETTING UP *UTEM* CALL AND ISSUE IT	COMPAST 171
43	5102	3411			STD CM+1		COMPAST 172
44	5103	3012			LDD CM+2		COMPAST 173
45	5104	1014			SHN 14		COMPAST 174
46	5105	3313			LMD CM+3		COMPAST 175
47	5106	3104			ADD T4		COMPAST 176
48	5107	3414			STD CM+4		COMPAST 177
49	5110	1063			SHN -14		COMPAST 178
50	5111	3413			STD CM+3		COMPAST 179
51	5112	1400			LDN 0		COMPAST 180
52	5113	3412			STD CM+2		COMPAST 181
53	5114	3077			LDD MA		COMPAST 182
54	5115	6311 5126			CWM ASTB,CM+1		COMPAST 183

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5117	2000 0115		MONITOR UTEM			COMPAST	184
5123	3011		LDD CM+1			COMPAST	185
5124	0100 4725		LJM ASTX	RETURN		COMPAST	186
						COMPAST	187
						COMPAST	188
		*	*UTEM* PARAMETER BLOCK.			COMPAST	189
						COMPAST	190
5126	4000	ASTB	VFD	1/1,5/0,6/0	VERIFY ENTRY	COMPAST	191
5127	0000		VFD	6/0,6/0		COMPAST	192
5130	0000		CON	0		COMPAST	193
5131	0000		CON	0		COMPAST	194
5132	0000		CON	0		COMPAST	195
						COMPAST	196
5133	0000	ASTC	VFD	1/0,5/0,6/0	CHANGE ENTRY	COMPAST	197
5134	0000		VFD	6/0,6/0		COMPAST	198
5135	0000		CON	0		COMPAST	199
5136	0000		CON	0		COMPAST	200
5137	0000		CON	0		COMPAST	201
						COMPAST	202
		.A	ELSE			COMPAST	203
						COMPAST	204
		AST6	EQU	AST3	DISABLE FUNCTIONS ISSUING *UTEM*	COMPAST	205
		AST7	EQU	AST3		COMPAST	206
		AST8	EQU	AST3		COMPAST	207
		AST10	EQU	AST3		COMPAST	208
						COMPAST	209
		.A	ENDIF			COMPAST	210
						COMPAST	211
5140	5	ASTD	BSS	5	SSCT/SSAT WORD	COMPAST	212
						COMPAST	213
						COMPAST	214
		**	TAST - TABLE OF FUNCTION PROCESSORS.			COMPAST	214
		*				COMPAST	215
		*	EACH ENTRY CONTAINS THE ADDRESS OF THE CORRESPONDING FUNCTION			COMPAST	216
		*	PROCESSOR.			COMPAST	217
						COMPAST	218
						COMPAST	219
5145		TAST	BSS	0		COMPAST	220
L 0			LOC	0		COMPAST	221
						COMPAST	222
L 0	5004	FECF	CON	AST5		COMPAST	223
L 1	5010	SECF	CON	AST6		COMPAST	224
L 2	5021	CSCF	CON	AST7		COMPAST	225
L 3	5021	SSCF	CON	AST7		COMPAST	226
						COMPAST	227
L 4		MNAF	BSS	0	MINIMUM SSAT FUNCTION	COMPAST	228
						COMPAST	229
L 4	5004	FEAF	CON	AST5		COMPAST	230
L 5	5035	CEAF	CON	AST8		COMPAST	231
L 6	5045	SEAF	CON	AST10		COMPAST	232
						COMPAST	233
L 7		MAXF	BSS	0	MAXIMUM VALID FUNCTION	COMPAST	234
						COMPAST	235
5154			LOC	*0		COMPAST	236

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M_M	QUAL\$	BASE	* -DEF, QUAL\$	COMPAST	
		IF		COMPAST	238
		QUAL	*	COMPAST	239
		EQU	/COMPAST/AST	COMPAST	240
	AST	EQU	/COMPAST/AST	COMPAST	241
	FECF	EQU	/COMPAST/FECF	COMPAST	242
	SECF	EQU	/COMPAST/SECF	COMPAST	243
	CSCF	EQU	/COMPAST/CSCF	COMPAST	244
	SSCF	EQU	/COMPAST/SSCF	COMPAST	245
	FEAF	EQU	/COMPAST/FEAF	COMPAST	246
	CEAF	EQU	/COMPAST/CEAF	COMPAST	247
	SEAF	EQU	/COMPAST/SEAF	COMPAST	248
	QUAL\$	ENDIF		COMPAST	249
		ENDX		COMPAST	250
		LIST	*	271L716	532
5154		CTEXT	COMPRSS - READ SYSTEM SECTOR.	COMPRSS	1
	1	EQU	1 SELECT IMMEDIATE RETURN FROM *SFI*	NS2707	67
5234		CTEXT	COMPSFI - SET FILE INTERLOCK.	COMPSFI	1
	**		TSCI - SUBSYSTEM CPU PRIORITIES.	1SJ	2214
	*		ENTRY = 1 WORD.	1SJ	2215
	*		INDEXED BY SUBSYSTEM IDENTIFICATION NUMBER.	1SJ	2216
	*			1SJ	2217
	*T	12/ PR		1SJ	2218
	*	PR	CPU PRIORITY TO BE ASSIGNED TO SUBSYSTEM.	1SJ	2219
				1SJ	2220
				1SJ	2221
5251	TSCI	INDEX		1SJ	2222
	.SUB	LIST	D	V22L602	26
		HERE		V22L602	27
L	0	0076	INDEX (MXSI-IFSI), IACS	.SUB	.1
L	1	0074	INDEX (MXSI-RFSI), RFCS	.SUB	.1
L	2	0072	INDEX (MXSI-I1SI), I1CS	.SUB	.1
L	3	0072	INDEX (MXSI-I2SI), I2CS	.SUB	.1
L	4	0072	INDEX (MXSI-TRSI), TACS	.SUB	.1
L	5	0072	INDEX (MXSI-MPSI), MPCS	.SUB	.1
L	6	0077	INDEX (MXSI-NMSI), NMCS	.SUB	.1
L	7	0074	INDEX (MXSI-NVSI), MLCS	.SUB	.1
L	10	0072	INDEX (MXSI-CDSI), CZCS	.SUB	.1
L	11	0072	INDEX (MXSI-MCSI), MCCS	.SUB	.1
L	13	0072	INDEX (MXSI-MFSI), MFCS	.SUB	.1
L	14	0072	INDEX (MXSI-RBSI), RBCS	.SUB	.1
L	15	0000	INDEX (MXSI-BISI), BICS	.SUB	.1
L	16	0076	INDEX (MXSI-MTSI), MTCS	.SUB	.1
L	17	0060	INDEX (MXSI-STSI), TSCS	.SUB	.1
L	20	0072	INDEX (MXSI-MSSI), MFCS	.SUB	.1
L	21	0072	INDEX (MXSI-SMSI), SMCS	.SUB	.1
L	22	0074	INDEX (MXSI-SSSI), SSCS	.SUB	.1
L	23	0072	INDEX (MXSI-ASSI), AFCS	.SUB	.1
L	24	0072	INDEX (MXSI-TLSI), TLCS	.SUB	.1
L	25	0072	INDEX (MXSI-NJSI), NJCS	.SUB	.1
L	26	0074	INDEX (MXSI-PLSI), PLCS	.SUB	.1
L	27	0072	INDEX (MXSI-ATSI), ATCS	.SUB	.1
L	30	0072	INDEX (MXSI-C1SI), C1CS	.SUB	.1
		LIST	*	V22L602	28

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INDEX MXSI-LSSI

1SJ

2236

1									1
2									2
3		*	OVERFLOW CHECKS.					1SJ	2238
4								1SJ	2239
5								1SJ	2240
6			USE OVERFLOW					1SJ	2241
7			OVERFLOW 03SA,TJSC					1SJ	2242
8									
9								OVERFLOW.1	
10	267		ERRNG .2-.1+5-.3/500B*500B	BYTES LEFT AFTER LAST SECTOR				OVERFLOW.1	
11	251		ERRNG .3/500B*500B-*.1-5	BYTES LEFT IN LAST SECTOR				OVERFLOW.1	
12	251		ERRNG .4/500B*500B-*.1-5	BYTES CAN BE ADDED TO OVERLAY				OVERFLOW.1	
13	2		ERRNG .3/500B	SECTORS NEEDED FOR OVERLAY				OVERFLOW.1	
14								OVERFLOW.1	
15			LIST *					OVERFLOW.1	
16									
17									
18									
19									
20			QUAL					1SJ	2244
21									
22									
23									
24									
25									
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M_M	IDENT	3SB,03SB	SCHEDULE INPUT FILES TO EJT.	271L716	534
	BASE	M		1SJ	3246
	SST			1SJ	3248
	COMMENT	82/02/26. 96/06/05.	1SJ - SCHEDULE INPUT FILES TO EJT.	1SJ	3249
4360	COMMENT		COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.	281L803	3
	ORG	03SB		271L716	535
	QUAL	3SB		271L716	536
1	QUAL\$	1		1SJ	3253
	**		SIE - SCHEDULE INPUT FILES TO EJT.	1SJ	3255
	*			1SJ	3256
	*		SCHEDULE AS MANY INPUT FILES TO THE EJT AS POSSIBLE, UP TO A	1SJ	3257
	*		LIMIT OF *TIOOL*. AN INPUT FILE QFT ENTRY IS CONSIDERED	1SJ	3258
	*		ELIGIBLE FOR SCHEDULING ONLY IF THE FOLLOWING CONDITIONS ARE	1SJ	3259
	*		MET -	1SJ	3260
	*		1. THE FILE TYPE IS INPUT.	1SJ	3261
	*		2. THE QFT ENTRY IS NOT ASSIGNED TO AN EJT ENTRY.	1SJ	3262
	*		3. SCHEDULING THE INPUT FILE TO THE EJT WOULD NOT	1SJ	3263
	*		INCREASE THE SERVICE CLASS JOB COUNT ABOVE THE	1SJ	3264
	*		ALLOWABLE MAXIMUM.	1SJ	3265
	*		4. THE QFT ENTRY TIME FIELD IS NON-ZERO.	1SJ	3266
				1SJ	3267
				1SJ	3268
4360	0100	4360	SIE SUBR ENTRY/EXIT	1SJ	3269
4362	0200	5457	RJM PRS PRESET *3SB*	271L716	538
4364	0410		ZJN SIE2 IF QFT SCHEDULING SHOULD NOT BE PERFORMED	1SJ	3278
4365	0200	5002	RJM SIQ SCAN QFT	1SJ	3279
4367	3007		LDD T7	1SJ	3280
4370	1120		LMN TIOOL	1SJ	3281
4371	0403		ZJN SIE2 IF *TIOO* TABLE IS EMPTY	1SJ	3282
4372	0200	4452	RJM CEE CREATE EJT ENTRIES	NS2181B	17
	*		UPDATE THE JOB COUNTS IN THE JOB CONTROL AREA.	1SJ	3284
				1SJ	3285
4374	1423		SIE2 LDN MXJC INITIALIZE JCB INDEX	1SJ	3286
4375	3401		STD T1	1SJ	3287
4376	3701		SEI3 SOD T1 DECREMENT JCB INDEX	1SJ	3288
4377	0503		ZJP SIE5 IF ALL JCB-S WERE UPDATED	NS22000	499
4402	0200	4332	RJM RJC CALCULATE JCB ADDRESS	1SJ	3291
4404	1603		ADN SVJT	NS22000	500
4405	6027		CRD BB	NS22000	501
4406	1607		ADN JCTT-SVJT	NS22000	502
4407	6020		CRD AA	1SJ	3293
4410	3020		LDD AA	NS22000	503
4411	3232		SBD BB+3	NS22000	504
4412	0707		MJN SIE4 IF JOB COUNT WAS LESS THAN JOB LIMIT	NS22000	505
4413	5001	6455	LDM TJCT,T1	NS22000	506
4415	3232		SBD BB+3	NS22000	507
4416	0603		PJN SIE4 IF NEW JOB COUNT NOT BELOW JOB LIMIT	NS22000	508
4417	5600	4436	AOM SIEA INDICATE TO ISSUE EVENT	NS22000	509
4421	5001	6455	SIE4 LDM TJCT,T1	NS22000	510
4423	3420		STD AA	1SJ	3295
4424	3021		LDD AA+1	NS2285	1
4425	0402		ZJN SIE4.1 IF NO JOBS WAITING	NS2285	2

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4426	3721			SOD	AA+1	DECREMENT QFT TIME-OUT	NS2285	3
4427	3001			LDD	T1		NS2285	4
4430	0200	4332		RJM	RJC	CALCULATE JCB ADDRESS	1SJ	3297
4432	1612			ADN	JCTT		1SJ	3298
4433	6220			CWD	AA	UPDATE JOB COUNT	1SJ	3299
4434	0341			UJN	SEI3	CONTINUE UPDATING JOB COUNTS	1SJ	3300
4435	2000	0000		LDC	0		NS22000	511
			4436	SIEA	*-1	(NONZERO IF TO ISSUE EVENT)	NS22000	512
4437	0410			ZJN	SIE6	IF TO NOT ISSUE EVENT	NS22000	513
4440	1466			LDN	ZERL	ISSUE JOB COUNT BELOW SERVICE LIMIT EVENT	NS22000	514
4441	6010			CRD	CM		NS22000	515
4442	1427			LDN	SCFE		NS22000	516
4443	3414			STD	CM+4		NS22000	517
4444	1462			MONITOR	EATM		NS22000	518
4447	0100	4360		LJM	SIEX	RETURN	NS22000	519
							NS22000	520
				**		CEE - CREATE EJT ENTRIES.	1SJ	3302
				*			1SJ	3303
				*		BUILD AN EJT ENTRY FOR EACH ENTRY IN THE *TI00* TABLE.	1SJ	3304
				*			1SJ	3305
				*		ENTRY (T7) = INDEX OF FIRST *TI00* ENTRY.	1SJ	3306
				*			1SJ	3307
				*		USES T1, T7, CM - CM+4, AA - AA+4, BB - BB+4, EJ - EJ+4,	1SJ	3308
				*		E0, IO, SC.	1SJ	3309
				*			1SJ	3310
				*		CALLS CET, EJA, IOA, IUT.	1SJ	3311
				*			1SJ	3312
				*		MACROS MONITOR.	1SJ	3313
							1SJ	3314
4451	0100	4451		CEE	SUBR	ENTRY/EXIT	1SJ	3315
				*			1SJ	3316
				*		GET THE ORDINAL OF THE NEXT AVAILABLE EJT SLOT.	1SJ	3317
							1SJ	3318
4453	1400			CEE1	LDN	0	1SJ	3319
4454	3411			STD	CM+1	GET EJT ENTRY	1SJ	3320
4455	3434			STD	E0		1SJ17	1
4456	3077			LDD	MA	SET INITIAL EJT DATA	1SJ17	2
4457	6370	4730		CWM	CEEA,ON		1SJ17	3
4461	1404			LDN	/CPS/PEJT		1SJ	3322
4462	3412			STD	CM+2		1SJ	3323
4463	5007	6113		LDM	TI00+2*TI00L,T7	CHECK SERVICE CLASS	1SJ36	1
4465	1101			LMN	SYSC		1SJ	3326
4466	0405			ZJN	CEE1.1	IF SYSTEM JOB	1SJ	3327
4467	1122			LMN	SYSC&DSSC		1SJ	3328
4470	0403			ZJN	CEE1.1	IF DEADSTART SEQUENCING JOB	1SJ	3329
4471	1124			LMN	DSSC&SSSC		1SJ	3330
4472	0504			NJN	CEE1.2	IF NOT SUBSYSTEM	1SJ	3331
4473	2000	4000		CEE1.1	LDC	4000	1SJ	3332
4475	3512			RAD	CM+2	SET SYSTEM ORIGIN FLAG	1SJ	3333
4476	1466			CEE1.2	MONITOR	MTRM	1SJ	3334
4501	3011			LDD	CM+1		1SJ	3335
4502	0417			ZJN	CEE4	IF NO EJT ENTRY AVAILABLE	1SJ	3336

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								1SJ	3337
			*			USE THE *UTEM* MONITOR FUNCTION TO SET THE QFT ENTRY		1SJ	3338
			*			INTERLOCK AND VERIFY THE ENTRY IS STILL ACCEPTABLE FOR		1SJ	3339
			*			SCHEDULING.		1SJ	3340
1								1SJ	3341
2								1SJ	3342
3	4503	3434		CEE2	STD	E0	SAVE EJT ORDINAL	1SJ	3342
4	4504	5007 6053		CEE2.1	LDM	TI00,T7	GET QFT ORDINAL FROM *TI00* TABLE	1SJ17	4
5	4506	3435			STD	I0		1SJ	3344
6	4507	5007 6113			LDM	TI00+2*TI00L,T7	SAVE SERVICE CLASS	1SJ36	2
7	4511	3441			STD	SC		1SJ36	3
8	4512	2040 0000			LDC	0*10000+1S17D		1SJ	3345
9	4514	0200 2642			RJM	IUT	ISSUE *UTEM* MONITOR FUNCTION	1SJ	3346
10	4516	0424			ZJN	CEE5	IF INTERLOCK GOTTEN	1SJ	3347
11	4517	5741 6455		CEE3	SOM	TJCT,SC	DECREMENT JOB COUNT	1SJ	3348
12	4521	3607		CEE4	AOD	T7		1SJ	3349
13	4522	1120			LMN	TI00L		1SJ	3350
14	4523	0405			ZJN	CEE4.1	IF *TI00* SCAN COMPLETE	1SJ17	5
15	4524	3034			LDD	E0		1SJ17	6
16	4525	0556			NJN	CEE2.1	IF UNUSED EJT ENTRY PRESENT	1SJ17	7
17	4526	0100 4453			LJM	CEE1	GET ANOTHER EJT ENTRY	1SJ17	8
18								1SJ17	9
19	4530	3034		CEE4.1	LDD	E0		1SJ17	10
20	4531	0407			ZJN	CEE4.2	IF NO EJT ENTRY TO RETURN	1SJ17	11
21	4532	3411			STD	CM+1	RETURN EJT ENTRY	1SJ17	12
22	4533	1404			LDN	/CPS/PEJT		1SJ17	13
23	4534	3412			STD	CM+2		1SJ17	14
24	4535	1466				MONITOR MTRM		1SJ17	15
25	4540	0100 4451		CEE4.2	LJM	CEEX	RETURN	1SJ17	16
26								1SJ	3353
27	4542	0200 4773		CEE5	RJM	IOA	CALCULATE QFT ENTRY ADDRESS	1SJ	3354
28					ADK	JSNQ		1SJ	3355
29	4544	6050			CRD	EJ		1SJ	3356
30	4545	1601			ADN	ENTQ-JSNQ		1SJ	3357
31	4546	6020			CRD	AA		1SJ	3358
32	4547	1601			ADN	INSQ-ENTQ		NS22000	521
33	4550	6010			CRD	CM		NS22000	522
34	4551	1601			ADN	SCLQ-INSQ		NS22000	523
35	4552	6027			CRD	BB		1SJ	3360
36	4553	3013			LDD	CM+3	SAVE ACCESS LEVEL LIMITS	NS22000	524
37	4554	2200 0777			LPC	777		NS2202	1
38	4556	5400 4735			STM	CEEB		NS22000	526
39								1SJ	3361
40				*			VERIFY ENTRY.	1SJ	3362
41								1SJ	3363
42	4560	3027			LDD	BB		1SJ	3364
43	4561	1071			SHN	-6		1SJ	3365
44	4562	3341			LMD	SC		1SJ	3366
45	4563	0505			NJN	CEE6	IF SERVICE CLASS CHANGED	1SJ	3367
46	4564	3054			LDD	EJ+4		1SJ	3368
47				0	ERRNZ	INQF	CODE ASSUMES *INQF* = 0	1SJ	3369
48	4565	2200 7002			LPC	7002		1SJ	3370
49	4567	0407			ZJN	CEE7	IF *TYPE* AND *STAT* FIELDS ARE OK	1SJ	3371
50	4570	2060 0000		CEE6	LDC	0*10000+1S17D+1S16D	CLEAR INTERLOCK	1SJ	3372
51	4572	0200 2642			RJM	IUT	ISSUE *UTEM* MONITOR FUNCTION	1SJ	3373
52	4574	0100 4517			LJM	CEE3	CONTINUE PROCESSING *TI00* TABLE	1SJ	3379
53								1SJ	3380
54				*			CREATE EJT ENTRY.	1SJ	3381

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	4576	3027	CEE7	LDD	BB		1SJ	3382
	4577	1217		LPN	17		1SJ	3383
	4600	1103		LMK	IAOT		1SJ	3384
1	4601	3401		STD	T1		NS2134	35
2	4602	0402		ZJN	CEE8	IF INTERACTIVE JOB	NS2117	1
3	4603	1402		LDN	NICS&OLCS		1SJ	3386
4	4604	1102	CEE8	LMN	OLCS	SET CONNECTION STATUS	1SJ	3387
5	4605	1007		SHN	7		1SJ	3388
6				LMK	PRJS*2	SET JOB STATUS	1SJ	3389
7	4606	3454		STD	EJ+4		1SJ	3390
8	4607	1400		LDN	0		1SJ	3391
9	4610	3422		STD	AA+2		1SJ	3392
10	4611	3432		STD	BB+3		1SJ	3393
11	4612	3001		LDD	T1		1SJ	3394
12	4613	0404		ZJN	CEE8.1	IF INTERACTIVE SERVICE CLASS	NS2117	2
13	4614	3041		LDD	SC		NS2117	3
14	4615	1107		LMN	SSSC		1SJ	3395
15	4616	0504		NJN	CEE9	IF NOT A SUBSYSTEM	1SJ	3396
16	4617	2000 4000	CEE8.1	LDC	4000	SET NO-RERUN FLAG	1SJ	3397
17	4621	3522		RAD	AA+2		NS2117	4
18							1SJ	3399
19							1SJ	3400
20			*			CALCULATE INITIAL SCHEDULING PRIORITY.	1SJ	3401
21							1SJ	3402
22	4622	5041 6753	CEE9	LDM	TEPB+3*MXJC,SC	SAVE INITIAL PRIORITY FOR *CET*	271L716	539
23	4624	3401		STD	T1		1SJ	3404
24	4625	3041		LDD	SC		1SJ	3405
25	4626	1014		SHN	14		1SJ	3406
26	4627	1101		LMN	EXQT		1SJ	3407
27	4630	0200 5405		RJM	CET	CALCULATE ENTRY TIME	1SJ	3408
28	4632	3001		LDD	T1	SAVE CALCULATED ENTRY TIME IN *SCHE* IMAGE	1SJ	3409
29	4633	3423		STD	AA+3		1SJ	3410
30	4634	3002		LDD	T2		1SJ	3411
31	4635	3424		STD	AA+4		1SJ	3412
32	4636	1445		LDN	AFFL+DNFL	SET INITIAL CM FL	1SJ	3413
33	4637	3433		STD	BB+4		1SJ	3414
34	4640	1400	CEEC	LDN	**	(SYSTEM SECURITY MODE)	NS2134	36
35	4641	3401		STD	T1		NS2134	37
36	4642	0423		ZJN	CEE10	IF UNSECURED SYSTEM	NS2134	38
37	4643	5000 4735		LDM	CEEB	CHECK ACCESS LEVEL LIMITS	NS2134	39
38	4645	1014		SHN	-6+22		NS2202	2
39	4646	3414		STD	CM+4	LOWER ACCESS LEVEL LIMIT	NS2134	41
40	4647	1063		SHN	-22+6		NS2202	3
41	4650	1207		LPN	7		NS2202	4
42	4651	3413		STD	CM+3	UPPER ACCESS LEVEL LIMIT	NS2134	43
43	4652	3027		LDD	BB	SET ORIGIN TYPE	NS2134	44
44	4653	1217		LPN	17		NS2134	45
45	4654	3412		STD	CM+2		NS2134	46
46	4655	1406		LDN	/CPS/VJLS	VALIDATE JOB LIMITS	NS2134	47
47	4656	3411		STD	CM+1		NS2134	48
48	4657	2000 0120		MONITOR	VSAM		NS2134	49
49	4663	3011		LDD	CM+1		NS2134	50
50	4664	3401		STD	T1	SAVE RETURN STATUS	NS2134	51
51	4665	1466	CEE10	LDK	ZERL		NS2134	52
52	4666	6010		CRD	CM		NS2134	53
53	4667	5000 4735		LDM	CEEB	SET ACCESS LEVEL LIMITS	NS2134	54
54	4671	1207		LPN	7		NS2202	5

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4672	3412		STD	CM+2		NS2202	6
4673	5000 4735		LDM	CEEB		NS2202	7
4675	1377		SCN	77		NS2202	8
4676	1074		SHN	-3		NS2202	9
4677	3512		RAD	CM+2		NS2202	10
4700	3001		LDD	T1		NS2134	56
4701	0403		ZJN	CEE11	IF LIMITS ARE VALID	NS2134	57
4702	1443		LDK	SYET	SET ERROR FLAG	NS2134	58
4703	3411		STD	CM+1		NS2134	59
						1SJ	3417
		*		WRITE EJT ENTRY TO CM.		1SJ	3418
						1SJ	3419
4704	0200 2507	CEE11	RJM	EJA	CALCULATE EJT ENTRY ADDRESS	NS2134	60
4706	1601		ADN	SCHE		1SJ	3421
4707	6220		CWD	AA		1SJ	3422
4710	1601		ADN	PRFE-SCHE		1SJ	3423
4711	6210		CWD	CM		1SJ	3424
4712	1601		ADN	SCLE-PRFE		1SJ	3425
4713	6227		CWD	BB		1SJ	3426
4714	1703		SBN	SCLE-JSNE		1SJ	3427
4715	6250		CWD	EJ		1SJ	3428
						1SJ	3429
		*		RETURN QFT ENTRY.		1SJ	3430
						1SJ	3431
4716	3035		LDD	I0		1SJ	3432
4717	3411		STD	CM+1		1SJ	3433
4720	1403		LDN	/CPS/PQFT		1SJ	3434
4721	3412		STD	CM+2		1SJ	3435
4722	1466		MONITOR	MTRM		1SJ	3436
4725	3434		STD	E0	CLEAR EJT ORDINAL	1SJ17	17
4726	0100 4521		LJM	CEE4	CONTINUE PROCESSING *TI00* TABLE	1SJ	3437
						1SJ17	18
						1SJ17	19
4730	4747	CEEA	VFD	24/4L****,36/1	INITIAL EJT DATA	1SJ20	1
4731	4747						
4732	0000						
4733	0000						
4734	0001						
4735	0000	CEEB	CON	0	ACCESS LEVEL LIMITS	NS2134	61

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	**						FLP - FIND LOWEST PRIORITY JOB.	1SJ	3439
	*							1SJ	3440
	*						SCAN THE *TIOO* TABLE TO FIND THE LOWEST PRIORITY JOB.	1SJ	3441
1	*							1SJ	3442
2	*						ENTRY (A) = 0 IF THE LOWEST PRIORITY JOB OF THE ENTIRE	1SJ	3443
3	*						*TIOO* TABLE IS TO BE FOUND.	1SJ	3444
4	*						(A) .NE. 0 IF THE LOWEST PRIORITY JOB OF SERVICE CLASS	1SJ	3445
5	*						*SC* IS TO BE FOUND.	1SJ	3446
6	*						(SC) = SERVICE CLASS IF (A) .NE. 0.	1SJ	3447
7	*						(T7) = CURRENT *TIOO* INDEX.	1SJ	3448
8	*							1SJ	3449
9	*						EXIT (A) = *TIOO* INDEX OF LOWEST PRIORITY JOB.	1SJ	3450
10	*						(A) = 7777 IF CALLER REQUESTED LOWEST PRIORITY JOB OF	1SJ	3451
11	*						A SERVICE CLASS BUT *TIOO* TABLE CONTAINS NO	1SJ	3452
12	*						ENTRIES FOR JOBS OF THE SPECIFIED SERVICE	1SJ	3453
13	*						CLASS; OR THE *TIOO* TABLE IS EMPTY.	1SJ	3454
14	*						(T4) = PRIORITY.	1SJ	3455
15	*						(T5) = *TIOO* INDEX.	1SJ	3456
16	*							1SJ	3457
17	*						USES T3 - T5.	1SJ	3458
18								1SJ	3459
19								1SJ	3460
20		4736	3005		FLP4	LDD	T5	1SJ	3461
21								1SJ	3462
22		4737	0100	4737	FLP	SUBR	ENTRY/EXIT	1SJ	3463
23		4741	5400	4753		STM	FLPA	1SJ	3464
24		4743	1500			LCN	0	1SJ	3465
25		4744	3404			STD	T4	1SJ	3466
26		4745	3405			STD	T5	1SJ	3467
27		4746	3007			LDD	T7	1SJ	3468
28		4747	3403			STD	T3	1SJ	3469
29		4750	1120		FLP1	LMN	TIOOL	1SJ	3470
30		4751	0464			ZJN	FLP4	1SJ	3471
31		4752	2000	0000		LDC	**	1SJ	3472
32				4753	FLPA	EQU	*-1	1SJ	3473
33		4754	0405			ZJN	FLP2	1SJ	3474
34		4755	5003	6113		LDM	TIOO+2*TIOOL,T3	1SJ	3475
35		4757	3341			LMD	SC	1SJ	3476
36		4760	0510			NJN	FLP3	1SJ	3477
37		4761	5003	6073	FLP2	LDM	TIOO+1*TIOOL,T3	1SJ	3478
38		4763	3204			SBD	T4	1SJ	3479
39		4764	0604			PJN	FLP3	1SJ	3480
40		4765	3504			RAD	T4	1SJ	3481
41		4766	3003			LDD	T3	1SJ	3482
42		4767	3405			STD	T5	1SJ	3483
43		4770	3603		FLP3	AOD	T3	1SJ	3484
44		4771	0356			UJN	FLP1	1SJ	3485

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1				**	IOA - CALCULATE QFT ENTRY ADDRESS.			1SJ	3487
2				*				1SJ	3488
3				*	ENTRY (IO) = QFT ORDINAL.			1SJ	3489
4				*				1SJ	3490
5				*	EXIT (A) = QFT ADDRESS.			1SJ	3491
6				*				1SJ	3492
7				*	MACROS CFI.			1SJ	3493
8	4772	0100	4772		IOA	SUBR		1SJ	3496
9	4774	3035			CFI	QFT,IO	ENTRY/EXIT	1SJ	3497
10	4776	2100	0000		ADC	**	CALCULATE ENTRY OFFSET	1SJ	3498
11	5000	0371	4777		IOAA	EQU *-1	(IOQT FWA)	1SJ	3499
12					UJN	IOAX	RETURN	1SJ	3500
13									
14									
15									
16				**	SIQ - SCAN QFT.			1SJ	3604
17				*				1SJ	3605
18				*	SCAN THE QFT LOOKING FOR SCHEDULABLE INPUT FILES. BUILD			1SJ	3606
19				*	*TIOO* TABLE ENTRIES FOR THE *N* HIGHEST PRIORITY INPUT			1SJ	3607
20				*	FILES, WHERE *N* = MIN(*TP*,*TIOOL*). *TP* IS THE NUMBER OF			1SJ	3608
21				*	AVAILABLE EJT ENTRIES AND *TIOOL* IS AN ASSEMBLY CONSTANT.			1SJ	3609
22				*	IF AN INPUT QFT ENTRY CONTAINS A DESTINATION LID (*DLID*),			NS21000	16
23				*	*1SJ* WILL ONLY SCHEDULE THE JOB IF THE *DLID* HAS THE			NS21000	17
24				*	ATTRIBUTES *HOST* AND *ENABLED*.			NS21000	18
25				*				1SJ	3610
26				*	ENTRY (A) .LT. 0, ONLY SCHEDULE SYSTEM JOBS.			1SJ15	10
27				*	(TP) = NUMBER OF AVAILABLE EJT ENTRIES.			1SJ15	11
28				*	(IO) = LARGEST QFT ORDINAL.			1SJ	3612
29				*				1SJ	3613
30				*	EXIT (T7) = CURRENT *TIOO* INDEX.			1SJ	3614
31				*				1SJ	3615
32				*	USES E0, IO, SC, TP, AA - AA+4, BB - BB+4, CM - CM+4,			NS2242	1
33				*	T1 - T7.			NS2242	2
34				*				1SJ	3617
35				*	CALLS CPR, FLP, IOA.			1SJ	3618
36				*				1SJ	3619
37				*	MACROS CFI.			1SJ	3620
38								1SJ	3621
39								1SJ	3622
40	5001	0100	5001		SIQ	SUBR	ENTRY/EXIT	1SJ	3623
41	5003	0604			PJN	SIQ0	IF NOT EJT THRESHOLD	1SJ15	12
42	5004	2000	1101		LDC	LMNI+SYSC		1SJ15	13
43	5006	0303			UJN	SIQ0.1	CONTINUE	1SJ15	14
44								1SJ15	15
45	5007	2000	0306		SIQ0	LDC	UJNI+SIQ3.0-SIQE SET NORMAL SCHEDULING	1SJ15	16
46			31		ERRNG	37-SIQ3.0+SIQE	IF JUMP OUT OF RANGE	1SJ15	17
47	5011	5400	5054		SIQ0.1	STM	SIQE	1SJ15	18
48	5013	1420			LDN	TIOOL	INITIALIZE *TIOO* INDEX	1SJ	3624
49	5014	3407			STD	T7		1SJ	3625
50	5015	1701			SBN	1	INITIALIZE INDEX OF LOWEST PRIORITY JOB	1SJ	3626
51	5016	3405			STD	T5		1SJ	3627
52	5017	1500			LCN	0	INITIALIZE LOWEST *TIOO* ENTRY PRIORITY	1SJ	3628
53	5020	3404			STD	T4		1SJ	3629
54	5021	3035			LDD	IO		1SJ	3630

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Line	Job ID	Host LID	SIQ	CFI	QFT	IO	Description	1SJ	3SB
1	5022	1002	SIQ1	CFI	QFT	,,IO	GET QFT ENTRY OFFSET	1SJ	3631
2	5023	2100 0000		ADC	**			1SJ	3632
3			5024	SIQA	EQU	*-1	(QFT FWA)	1SJ	3633
4				ADK	JSNQ			1SJ	3634
5	5025	6010		CRD	CM			1SJ	3635
6	5026	3010		LDD	CM			1SJ	3636
7	5027	0504		NJN	SIQ3		IF NOT AN EMPTY ENTRY	1SJ	3637
8	5030	3735	SIQ2	SOD	IO			1SJ	3638
9	5031	0570		NJN	SIQ1		IF QFT SCAN NOT COMPLETE	1SJ	3639
10	5032	0346		UJN	SIQX		RETURN	1SJ	3640
11								1SJ	3641
12	5033	3014	SIQ3	LDD	CM+4			1SJ	3642
13			0	ERRNZ	INQF		CODE ASSUMES *INQF* = 0	1SJ	3643
14	5034	2200 7003		LPC	7003			1SJ	3644
15	5036	0571		NJN	SIQ2		IF FILE NOT ELIGIBLE FOR SCHEDULING	NS21000	20
16	5037	1401		LDN	1		SET NOT ABORTED INPUT FILE	NS2242	3
17	5040	3434		STD	E0			NS2242	4
18	5041	0200 4773		RJM	IOA		CALCULATE QFT ENTRY ADDRESS	1SJ	3646
19	5043	1601		ADN	ENTQ			1SJ	3647
20	5044	6010		CRD	CM			1SJ	3648
21	5045	1601		ADN	INSQ-ENTQ		READ DESTINATION LID	NS21000	21
22	5046	6027		CRD	BB			NS21000	22
23	5047	1601		ADN	SCLQ-INSQ			NS21000	23
24	5050	6020		CRD	AA			1SJ	3650
25	5051	3020		LDD	AA		GET SERVICE CLASS	1SJ	3651
26	5052	1071		SHN	-6			1SJ	3652
27	5053	3441		STD	SC			1SJ	3653
28	5054	0306	SIQE	UJN	SIQ3.0		CONTINUE	1SJ15	19
29			*	LMN	SYSC		(EJT FULL, ONLY SCHEDULE SYSTEM JOBS)	1SJ15	20
30	5055	0405		ZJN	SIQ3.0		IF SYSTEM JOB	1SJ15	21
31	5056	1122		LMN	DSSC&SYSC			1SJ15	22
32	5057	0403		ZJN	SIQ3.0		IF DEADSTART SEQUENCING JOB	1SJ15	23
33	5060	1124		LMN	SSSC&DSSC			1SJ15	24
34	5061	0546		NJN	SIQ2		IF NOT A SUBSYSTEM	1SJ15	25
35	5062	3041	SIQ3.0	LDD	SC			1SJ15	26
36	5063	1723		SBN	DSSC			1SJ15	27
37	5064	0515		NJN	SIQ3.1		IF NOT DEADSTART SEQUENCING JOB	NS21000	24
38	5065	1417		LDN	TIOOL-1		RESET *TIOO* INDEX	1SJ	3656
39	5066	3407		STD	T7			1SJ	3657
40			0	ERRNZ	LJMI-100			1SJ	3658
41	5067	3071		LDD	HN		STORE *LJM* INSTRUCTION	1SJ	3659
42	5070	5400 5232		STM	SIQC			1SJ	3660
43	5072	2000 5001		LDC	SIQX			1SJ	3661
44	5074	5400 5233		STM	SIQC+1			1SJ	3662
45	5076	1500		LCN	0		SET PRIORITY TO MAXIMUM	1SJ	3663
46	5077	0100 5221		LJM	SIQ8		BUILD *TIOO* ENTRY	1SJ	3664
47								1SJ	3665
48			*				THIS INPUT FILE IS SCHEDULABLE.	NS21000	25
49			*				DETERMINE IF DESTINATION LID IS HOST LID.	NS21000	26
50								NS21000	27
51	5101	3031	SIQ3.1	LDD	BB+2		CHECK IF DLID PRESENT IN QFT	NS21000	28
52	5102	1377		SCN	77			NS21000	29
53	5103	3130		ADD	BB+1			NS21000	30
54	5104	0425		ZJN	SIQ4		IF NO DLID	NS21000	31
55	5105	2000 0000		LDC	**		INITIALIZE *THLD* TABLE INDEX	NS21000	32
56			5106	SIQD	EQU	*-1	(2*NUMBER OF HOST LIDS)	V23L617	98
57	5107	0503		ZJP	SIQ2		IF NO HOST LIDS PRESENT	NS2285	5

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Line	Job ID	Priority	Queue	Code	Code	Description	Queue	Count
	5112	1702		SBN	2		V23L617	100
	5113	3406		STD	T6		NS21000	34
	5114	3030	SIQ3.2	LDD	BB+1	CHECK NEXT LID	NS21000	35
1	5115	5306 6133		LMM	THLD,T6		NS21000	36
2	5117	0506		NJN	SIQ3.3	IF NOT A MATCH	NS21000	37
3	5120	3031		LDD	BB+2		NS21000	38
4	5121	5306 6134		LMM	THLD+1,T6		NS21000	39
5	5123	1377		SCN	77		NS21000	40
6	5124	0405		ZJN	SIQ4	IF A MATCH	NS21000	41
7	5125	1502	SIQ3.3	LCN	2		NS21000	42
8	5126	3506		RAD	T6		NS21000	43
9	5127	0664		PJN	SIQ3.2	IF NOT END OF TABLE	NS21000	44
10	5130	0331		UJN	SIQ5	CHECK NEXT QFT ENTRY	NS21000	45
11							NS21000	46
12	5131	3013	SIQ4	LDD	CM+3	SAVE ENTRY TIME	NS2285A	1
13	5132	3401		STD	T1		NS2285A	2
14	5133	3014		LDD	CM+4		NS2285A	3
15	5134	3402		STD	T2		NS2285A	4
16	5135	3041		LDD	SC		NS2285A	5
17	5136	0200 4332		RJM	RJC		NS2285	7
18	5140	1612		ADK	JCTT		NS2285	8
19	5141	6027		CRD	BB		NS2285	9
20	5142	3030		LDD	BB+1		NS2285	10
21	5143	0516		NJN	SIQ5	IF JOBS WAITING FOR THIS SERVICE CLASS	NS2285	11
22							NS2285	12
23			*			CALCULATE QUEUE PRIORITY OF SELECTED INPUT FILE.	NS21000	47
24							NS21000	48
25	5144	3002		LDD	T2		NS2285A	6
26	5145	0406		ZJN	SIQ4.1	IF NOT POSSIBLE ABORTED INPUT FILE	NS2242	6
27	5146	1101		LMN	1	CHECK FOR ENTRY TIME OF 1	NS2242	7
28	5147	0504		NJN	SIQ4.1	IF NOT ABORTED INPUT FILE	NS2242	8
29	5150	3001		LDD	T1		NS2242	9
30	5151	0502		NJN	SIQ4.1	IF NOT ABORTED INPUT FILE	NS2242	10
31	5152	3734		SOD	E0	SET ABORTED INPUT FILE	NS2242	11
32	5153	3041	SIQ4.1	LDD	SC		NS2242	12
33	5154	1014		SHN	14		1SJ	3674
34				LMK	INQT		1SJ	3675
35	5155	0200 5311		RJM	CPR	CALCULATE QUEUE PRIORITY	1SJ	3676
36	5157	0702		MJN	SIQ5	IF NO JCB FOR SERVICE CLASS	1SJ	3677
37	5160	0503		NJN	SIQ6	IF NON-ZERO ENTRY TIME	1SJ	3678
38	5161	0100 5030	SIQ5	LJM	SIQ2	CONTINUE QFT SCAN	1SJ	3679
39							1SJ	3680
40			*			CHECK JOB COUNT LIMIT.	1SJ	3681
41							1SJ	3682
42	5163	3402	SIQ6	STD	T2	SAVE CALCULATED PRIORITY	1SJ	3683
43	5164	3034		LDD	E0		NS2242	13
44	5165	0504		NJN	SIQ6.1	IF NOT ABORTED INPUT FILE	NS2242	14
45	5166	1500		LCN	0	SET PRIORITY MAXIMUM	NS2242	15
46	5167	3402		STD	T2		NS2242	16
47	5170	0326		UJN	SIQ7	SKIP JOB COUNT CHECK	NS2242	17
48							NS2242	18
49	5171	5041 6455	SIQ6.1	LDM	TJCT,SC		NS2242	19
50	5173	5241 6500		SBM	TJAM,SC		1SJ2	2
51	5175	0721		MJN	SIQ7	IF JOB COUNT LIMIT NOT REACHED	1SJ2	3
52	5176	3041		LDD	SC		1SJ	3687
53	5177	1105		LMN	DISC		1SJ	3688
54	5200	0416		ZJN	SIQ7	IF DETACHED JOB	1SJ	3689

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Line	Job ID	Priority	Queue	Code	Description	Code	Count	
1	5201	3020	LDD	AA		1SJ	3690	
2	5202	1217	LPN	17		1SJ	3691	
3	5203	1103	LMK	IAOT		NS2134	62	
4	5204	0412	ZJN	SIQ7	IF INTERACTIVE JOB	1SJ	3693	
5	5205	0200 4740	RJM	FLP	FIND LOWEST PRIORITY JOB OF SERVICE CLASS	1SJ	3694	
6	5207	1006	SHN	6		1SJ	3695	
7	5210	0750	MJN	SIQ5	IF NO JOBS OF SERVICE CLASS IN *TIOO*	1SJ	3696	
8	5211	3004	LDD	T4		1SJ	3697	
9	5212	3202	SBD	T2		1SJ	3698	
10	5213	0645	PJN	SIQ5	IF PRIORITY OF NEW JOB .LE. LOWEST	1SJ	3699	
11	5214	0100 5263	LJM	SIQ13	CREATE *TIOO* ENTRY FOR CURRENT QFT ENTRY	1SJ	3700	
12						1SJ	3701	
13			*		BUILD *TIOO* ENTRY.	1SJ	3702	
14						1SJ	3703	
15	5216	3707	SIQ7	SOD	T7	DECREMENT *TIOO* INDEX	1SJ	3704
16	5217	3743		SOD	TP	DECREMENT AVAILABLE EJT ENTRY COUNT	1SJ	3705
17			*	LJM	SIQ12	(IF NO NEW *TIOO* SLOTS SHOULD BE USED)	1SJ	3706
18		5216	SIQB	EQU	*-2		1SJ	3707
19	5220	3002	LDD	T2		1SJ	3708	
20	5221	5407 6073	SIQ8	STM	TI00+1*TI00L,T7	1SJ	3709	
21	5223	3035	LDD	IO	PLACE QFT ORDINAL IN *TIOO* ENTRY	1SJ	3710	
22	5224	5407 6053	STM	TI00,T7		1SJ	3711	
23	5226	3041	LDD	SC	PLACE SERVICE CLASS IN *TIOO* ENTRY	1SJ	3712	
24	5227	5407 6113	STM	TI00+2*TI00L,T7		1SJ	3713	
25	5231	3034	LDD	E0	0= ABORTED INPUT FILE, 1=NORMAL INPUT FILE	NS2242	20	
26	5232	5541 6455	RAM	TJCT,SC	INCREMENT JOB COUNT	NS2242	21	
27			*	LJM	SIQX	(IF DEADSTART SEQUENCING JOB FOUND)	1SJ	3715
28		5232	SIQC	EQU	*-2	1SJ	3716	
29	5234	3002	LDD	T2		1SJ	3717	
30	5235	3204	SBD	T4		1SJ	3718	
31	5236	0605	PJN	SIQ9	IF JOB-S PRIORITY NOT NEW LOWEST OF *TIOO*	1SJ	3719	
32	5237	3007	LDD	T7	SAVE INDEX OF NEW LOWEST PRIORITY JOB	1SJ	3720	
33	5240	3405	STD	T5		1SJ	3721	
34	5241	3002	LDD	T2	SAVE PRIORITY OF NEW LOWEST JOB	1SJ	3722	
35	5242	3404	STD	T4		1SJ	3723	
36	5243	3007	SIQ9	LDD	T7	1SJ	3724	
37	5244	0403	ZJN	SIQ10	IF *TIOO* TABLE IS FULL	1SJ	3725	
38	5245	3043	LDD	TP		1SJ	3726	
39	5246	0510	NJN	SIQ11	IF MORE AVAILABLE EJT ENTRIES EXIST	1SJ	3727	
40	5247	2000 5260	SIQ10	LDC	SIQ12	PREVENT USE OF NEW *TIOO* SLOTS	1SJ	3728
41	5251	5400 5217	STM	SIQB+1		1SJ	3729	
42	5253	3071	LDD	HN	STORE *LJM*	1SJ	3730	
43	5254	5400 5216	STM	SIQB		1SJ	3731	
44	5256	0100 5030	SIQ11	LJM	SIQ2	CONTINUE QFT SCAN	1SJ	3732
45						1SJ	3733	
46			*		NO NEW *TIOO* SLOTS MAY BE USED. SEE IF THE CURRENT QFT	1SJ	3734	
47			*		ENTRY HAS A HIGHER QUEUE PRIORITY THAN THE LOWEST PRIORITY	1SJ	3735	
48			*		*TIOO* ENTRY. IF SO, REPLACE THAT JOB-S *TIOO* ENTRY WITH A	1SJ	3736	
49			*		NEW ONE FOR THE CURRENT QFT ENTRY.	1SJ	3737	
50						1SJ	3738	
51	5260	3004	SIQ12	LDD	T4	1SJ	3739	
52	5261	3202	SBD	T2		1SJ	3740	
53	5262	0673	PJN	SIQ11	IF NEW JOB-S PRIORITY .LE. *TIOO* LOWEST	1SJ	3741	
54	5263	5005 6113	SIQ13	LDM	TI00+2*TI00L,T5	GET SERVICE CLASS OF CURRENT LOWEST	1SJ	3742
55	5265	3403	STD	T3		1SJ	3743	
56	5266	5703 6455	SOM	TJCT,T3	DECREMENT JOB COUNT FOR OLD *TIOO* LOWEST	1SJ	3744	
57	5270	5641 6455	AOM	TJCT,SC	INCREMENT JOB COUNT FOR NEW JOB	1SJ	3745	

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5272	3035	LDD	I0	SAVE QFT ORDINAL IN *TI00* ENTRY	1SJ	3746
5273	5405 6053	STM	TI00,T5		1SJ	3747
5275	3002	LDD	T2	SAVE QUEUE PRIORITY IN *TI00* ENTRY	1SJ	3748
5276	5405 6073	STM	TI00+1*TI00L,T5		1SJ	3749
5300	3041	LDD	SC	SAVE SERVICE CLASS IN *TI00* ENTRY	1SJ	3750
5301	5405 6113	STM	TI00+2*TI00L,T5		1SJ	3751
					1SJ	3752
		*		SCAN THE *TI00* TABLE TO FIND THE NEW LOWEST PRIORITY JOB.	1SJ	3753
					1SJ	3754
5303	1400	LDN	0		1SJ	3755
5304	0200 4740	RJM	FLP	FIND LOWEST PRIORITY JOB	1SJ	3756
5306	0347	UJN	SIQ11	CONTINUE QFT SCAN	1SJ	3757

* COMMON DECKS. 1SJ 3759

					1SJ	3760
					1SJ	3761
1	CPR\$	SET	1	ASSEMBLE ROUTINE *CPR* OF *COMPCPE*	1SJ	3762
1	CET\$	SET	1	ASSEMBLE ROUTINE *CET* OF *COMPCPE*	1SJ	3763
1	IOQ\$	SET	1	ENABLE ZERO ENTRY TIME CHECK	1SJ22	1
		LIST	X		1SJ	3764

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5307

CTEXT COMPCPE - CALCULATE PRIORITY OR ENTRY TIME.

COMPCPE 1

1										1
2										2
3			IF	-DEF,QUAL\$,1				COMPCPE	3	3
4			QUAL	COMPCPE				COMPCPE	4	4
5		M_M	BASE	M				COMPCPE	5	5
6			COMMENT	82/02/26. 96/06/05. COMPCPE - CALCULATE PRIORITY OR ENTRY TIME	COMPCPE			COMPCPE	6	6
7			*	COMMENT	COPYRIGHT CONTROL DATA SYSTEMS INC. 1992.			281L803	1	7
8										8
9										9
10										10
11										11
12			***	CPE - CALCULATE PRIORITY OR ENTRY TIME.				COMPCPE	9	12
13			*					COMPCPE	10	13
14			*	R. M. DANISCH	81/02/05.			COMPCPE	11	14
15										15
16										16
17										17
18										18
19			***	*CPE*	CONTAINS ROUTINES TO CALCULATE A PRIORITY FROM A	COMPCPE		COMPCPE	13	19
20			*	GIVEN	ENTRY TIME AND CONVERT A PRIORITY TO AN ENTRY TIME.	COMPCPE		COMPCPE	14	20
21			*	ASSEMBLY	OF ROUTINES WITHIN THIS COMMON DECK IS CONTROLLED BY	COMPCPE		COMPCPE	15	21
22			*	SELECTIVELY	DEFINING THE FOLLOWING SYMBOLS -	COMPCPE		COMPCPE	16	22
23			*	CPR\$	CAUSES ASSEMBLY OF SUBROUTINE *CPR*	COMPCPE		COMPCPE	17	23
24			*	CET\$	CAUSES ASSEMBLY OF SUBROUTINE *CET*	COMPCPE		COMPCPE	18	24
25			*	IOQ\$	CAUSES ASSEMBLY OF QUEUE PRIORITY CODE IN	COMPCPE		COMPCPE	19	25
26			*		SUBROUTINE *CPR*	COMPCPE		COMPCPE	20	26
27								COMPCPE	21	27
28			.CPR	IF	DEF,CPR\$			COMPCPE	22	28
29										29
30										30
31										31
32										32
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**      CPR - CALCULATE PRIORITY.                                COMPCPE 24
*
*      *CPR* CALCULATES QUEUE AND SCHEDULING PRIORITIES VIA    COMPCPE 25
*      THE FOLLOWING FORMULA -                                  COMPCPE 26
*
*      PR = LB + (CT - ET) / WF                                COMPCPE 27
*
*      WHERE PR = CALCULATED PRIORITY                          COMPCPE 28
*      LB = LOWER BOUND PRIORITY OF SERVICE CLASS              COMPCPE 29
*      WF = WEIGHTING FACTOR FROM JCB                          COMPCPE 30
*      CT = CURRENT TIME (SECONDS PORTION OF WORD              COMPCPE 31
*      *RTCL*)                                                  COMPCPE 32
*      ET = ENTRY TIME FROM EJT OR IOQT ENTRY                  COMPCPE 33
*
*      ENTRY (A) = 6/ SC,12/ QT.                                COMPCPE 34
*      SC SERVICE CLASS (MUST BE .LT. *MXJC*).                  COMPCPE 35
*      QT QUEUE TYPE (*INQT*, *EXQT* OR *OTQT*).                COMPCPE 36
*      (T1 - T2) = ENTRY TIME.                                  COMPCPE 37
*
*      EXIT (A) = QUEUE PRIORITY OR SCHEDULING PRIORITY.       COMPCPE 38
*      = 0 IF *IOQ$* IS DEFINED AND ENTRY TIME = 0.            COMPCPE 39
*      .LT. 0 IF NO JCB IS DEFINED FOR SERVICE CLASS.          COMPCPE 40
*
*      USES CM - CM+4.                                          COMPCPE 41
*
*      CALLS RJC.                                               COMPCPE 42
*
*      XREF COMPRJC, COMSPIM.                                    COMPCPE 43
*
*      NOTE THE LARGEST RESOLVED CLOCK DIFFERENCE IS           COMPCPE 44
*      377777. ANYTHING OVER THAT IS ASSUMED TO BE             COMPCPE 45
*      EQUAL TO UPPER BOUND PRIORITY.                           COMPCPE 46
*
*      5307      1500      CPR3      LCN      0      INDICATE NO JCB FOR SERVICE CLASS    COMPCPE 47
*
*      5310      0100 5310      CPR      SUBR      ENTRY/EXIT                                COMPCPE 48
*      5312      5400 5326      STM      CPRA      SAVE QUEUE TYPE                        COMPCPE 49
*      5314      1063      SHN      -14
*      5315      0471      ZJN      CPR3      IF NO SERVICE CLASS                          COMPCPE 50
*      5316      1123      LMN      DSSC
*      5317      0502      NJN      CPR0      IF NOT DEADSTART SEQUENCING SERVICE CLASS    COMPCPE 51
*      5320      1124      LMN      SSSC&DSSC  USE JCB FOR SUBSYSTEM SERVICE CLASS      COMPCPE 52
*      5321      1123      CPR0      LMN      DSSC
*      5322      0200 4332      RJM      RJC      CALCULATE JCB ADDRESS                    COMPCPE 53
*      5324      0462      ZJN      CPR3      IF NO JCB FOR SERVICE CLASS                  COMPCPE 54
*      5325      2100 0000      ADC      **      READ QUEUE CONTROL WORD FROM JCB        COMPCPE 55
*      5326      5326      CPRA      EQU      *-1      (QUEUE TYPE - USED AS JCB WORD INDEX) COMPCPE 56
*      5327      6010      CRD      CM
*
*      .IOQ      IF      DEF,IOQ$
*
*      5330      3001      LDD      T1
*      5331      3102      ADD      T2
*      5332      0455      ZJN      CPRX      IF ENTRY TIME = 0                          COMPCPE 57
*
*      .IOQ      ENDIF
  
```

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5333	2000	1077	LDC	SHNI+77	USE WEIGHTING FACTOR AS SHIFT COUNT	COMPCPE	76
5335	3213		SBD	CM+3		COMPCPE	77
5336	5400	5370	STM	CPRB		COMPCPE	78
5340	3011		LDD	CM+1	SAVE LOWER AND UPPER BOUNDS	COMPCPE	79
5341	5400	5372	STM	CPRC		COMPCPE	80
5343	3012		LDD	CM+2		COMPCPE	81
5344	5400	5400	STM	CPRD		COMPCPE	82
5346	2000	0106	LDC	RTCL	READ REAL-TIME CLOCK	COMPCPE	83
5350	6010		CRD	CM		COMPCPE	84
5351	3710		SOD	CM		COMPCPE	85
5352	3011		LDD	CM+1		COMPCPE	86
5353	2101	0000	ADC	10000		COMPCPE	87
5355	3202		SBD	T2		COMPCPE	88
5356	3414		STD	CM+4		COMPCPE	89
5357	1063		SHN	-14		COMPCPE	90
5360	3110		ADD	CM		COMPCPE	91
5361	3201		SBD	T1		COMPCPE	92
5362	3413		STD	CM+3		COMPCPE	93
5363	1337		SCN	37		COMPCPE	94
5364	0512		NJN	CPR1	IF .GT. MAXIMUM VALUE	COMPCPE	95
5365	3013		LDD	CM+3		COMPCPE	96
5366	1014		SHN	14		COMPCPE	97
5367	3314		LMD	CM+4		COMPCPE	98
5370	1000		CPRB	SHN	**	COMPCPE	99
5371	2100	0000	ADC	**		COMPCPE	100
		5372	CPRC	EQU	*-1 (LOWER BOUND PRIORITY)	COMPCPE	101
5373	5200	5400	SBM	CPRD		COMPCPE	102
5375	0702		MJN	CPR2	IF PRIORITY .LT. UPPER BOUND	COMPCPE	103
5376	1400		CPR1	LDN	0	COMPCPE	104
5377	2100	0000	CPR2	ADC	**	COMPCPE	105
		5400	CPRD	EQU	*-1 (UPPER BOUND PRIORITY)	COMPCPE	106
5401	0100	5310	LJM	CPRX	RETURN	COMPCPE	107
			.CPR	ENDIF		COMPCPE	108
			.CET	IF	DEF,CET\$	COMPCPE	109
						COMPCPE	110
						COMPCPE	111
						COMPCPE	112

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```
**          CET - CALCULATE ENTRY TIME.                                COMPCPE  114
*          *CET* CALCULATES ENTRY TIME VIA THE FOLLOWING              COMPCPE  115
*          FORMULA -                                                  COMPCPE  116
*          ET = CT - (PR - LB) * WF                                    COMPCPE  117
*                                                                                   COMPCPE  118
*          WHERE  ET = ENTRY TIME                                       COMPCPE  119
*                CT = CURRENT TIME (SECONDS PORTION OF WORD          COMPCPE  120
*                *RTCL*)                                             COMPCPE  121
*                PR = QUEUE OR SCHEDULING PRIORITY                   COMPCPE  122
*                LB = LOWER BOUND PRIORITY OF SERVICE CLASS         COMPCPE  123
*                WF = WEIGHTING FACTOR FROM JCB                      COMPCPE  124
*                                                                                   COMPCPE  125
*          IF PR = 0 THEN ET = 0.                                       COMPCPE  126
*          IF PR .LT. LB THEN ET = CT.                                   COMPCPE  127
*                                                                                   COMPCPE  128
*          ENTRY  (A) = 6/ SC,12/ QT.                                     COMPCPE  129
*                SC  SERVICE CLASS (MUST BE .LT. *MXJC*).             COMPCPE  130
*                QT  QUEUE TYPE (*INQT*, *EXQT*, OR *OTQT*).          COMPCPE  131
*                (T1) = QUEUE PRIORITY OR SCHEDULING PRIORITY.       COMPCPE  132
*                                                                                   COMPCPE  133
*          EXIT  (T1 - T2) = ENTRY TIME.                                COMPCPE  134
*                = 0 IF PRIORITY = 0.                                  COMPCPE  135
*                                                                                   COMPCPE  136
*          USES  T1, T2, CM - CM+4.                                       COMPCPE  137
*                                                                                   COMPCPE  138
*          CALLS RJC.                                                    COMPCPE  139
*                                                                                   COMPCPE  140
*          XREF  COMPRJC, COMSPIM.                                         COMPCPE  141
*                                                                                   COMPCPE  142
*          NOTE  *CET* DOES NOT CONSIDER THE CASE WHERE THE DESIRED   COMPCPE  143
*                PRIORITY IS GREATER THAN THE UPPER BOUND FOR THE    COMPCPE  144
*                SERVICE CLASS. *CPR* WILL ADJUST THE PRIORITY       COMPCPE  145
*                APPROPRIATELY WHEN IT IS BEING CALCULATED.         COMPCPE  146
*                                                                                   COMPCPE  147
*                THE MINIMUM *RTCL* VALUE MUST EXCEED 377740        COMPCPE  148
*                AS PRESET BY *SET* AND MAINTAINED BY *MTR*.        COMPCPE  149
*                                                                                   COMPCPE  150
*                                                                                   COMPCPE  151
*                                                                                   COMPCPE  152
*                                                                                   COMPCPE  153
*          5403          3402          CET2  STD  T2                      COMPCPE  154
*                                                                                   COMPCPE  155
*          5404          0100 5404          CET  SUBR  ENTRY/EXIT        COMPCPE  156
*          5406          3402          STD  T2  SAVE QUEUE TYPE          COMPCPE  157
*          5407          1063          SHN  -14                          COMPCPE  158
*          5410          1123          LMN  DSSC                          PCPE1    5
*          5411          0502          NJN  CET0  IF NOT DEADSTART SEQUENCING SERVICE CLASS PCPE1    6
*          5412          1124          LMN  SSSC&DSSC USE JCB FOR SUBSYSTEM SERVICE CLASS PCPE1    7
*          5413          1123          CET0 LMN  DSSC                          PCPE1    8
*          5414          0200 4332          RJM  RJC  CALCULATE JCB ADDRESS COMPCPE  159
*          5416          3102          ADD  T2  READ QUEUE CONTROL WORD FROM JCB COMPCPE  160
*          5417          6010          CRD  CM                               COMPCPE  161
*          5420          3013          LDD  CM+3  USE WEIGHTING FACTOR AS SHIFT COUNT COMPCPE  162
*          5421          3172          ADD  TH  *SHNI* INSTRUCTION       COMPCPE  163
*          5422          5400 5431          0  ERRNZ SHNI-1000          COMPCPE  164
*          5424          3001          STM  CETA                          COMPCPE  165
*                                                                                   COMPCPE  166
```

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5526	0603		PJN	PRS2	IF MORE PIDS	V23L617	122	
5527	0100 5624		LJM	PRS7	SET *QFT* FWA	1SJ50	25	
						V23L617	124	
1	5531	3001	PRS2	LDD	T1	READ FIRST WORD OF PID ENTRY	V23L617	125
2	5532	1014		SHN	14		V23L617	126
3	5533	3302		LMD	T2		V23L617	127
4	5534	3106		ADD	T6		V23L617	128
5	5535	6020		CRD	AA		V23L617	129
6	5536	1601		ADN	1	SECOND WORD OF PID ENTRY	V23L617	130
7	5537	6027		CRD	BB		V23L617	131
8	5540	1601		ADN	1	THIRD WORD OF PID ENTRY	V23L617	132
9	5541	6010		CRD	CM		V23L617	133
10	5542	3021		LDD	AA+1		V23L617	134
11	5543	1014		SHN	21-5		V23L617	135
12	5544	0704		MJN	PRS3	IF HOST PID	V23L617	136
13	5545	3033		LDD	BB+4	POINT TO NEXT PID ENTRY	V23L617	137
14	5546	3506		RAD	T6		V23L617	138
15	5547	0355		UJN	PRS1	CHECK NEXT PID	V23L617	139
							V23L617	140
17	5550	1402	PRS3	LDN	3-1	FWA-1 OF LID ENTRY	V23L617	141
18	5551	3506		RAD	T6		V23L617	142
19	5552	3714	PRS4	SOD	CM+4	DECREMENT LID SLOT COUNT	V23L617	143
20	5553	0603		MJP	PRS5	IF ALL LID SLOTS CHECKED	241L630	149
21	5556	3606		AOD	T6	POINT TO NEXT LID ENTRY	V23L617	145
22	5557	3001		LDD	T1	READ LID ENTRY	V23L617	146
23	5560	1014		SHN	14		V23L617	147
24	5561	3302		LMD	T2		V23L617	148
25	5562	3106		ADD	T6		V23L617	149
26	5563	6020		CRD	AA		V23L617	150
27	5564	3020		LDD	AA		V23L617	151
28	5565	0464		ZJN	PRS4	IF HOLE IN LDT	V23L617	152
							V23L617	153
30			*			ADD ONLY HOST LIDS THAT ARE ENABLED AND ARE NOT	V23L617	154
31			*			LINKED OR STORE-AND-FORWARD TO THE HOST LID TABLE.	V23L617	155
							V23L617	156
33	5566	3022		LDD	AA+2		V23L617	157
34	5567	1006		SHN	21-13		V23L617	158
35	5570	0661		PJN	PRS4	IF LID NOT ENABLED	V23L617	159
36	5571	1003		SHN	21-10-21+13		V23L617	160
37	5572	0757		MJN	PRS4	IF LID LINKED (LOOPBACK SET)	V23L617	161
38	5573	1020		SHN	21-12-21+10+22		V23L617	162
39	5574	0755		MJN	PRS4	IF STOREF SET	V23L617	163
40	5575	3020		LDD	AA	ADD LID TO HOST LID TABLE	V23L617	164
41	5576	5417 6133		STM	THLD,T9		1SJ50	26
42	5600	3021		LDD	AA+1		V23L617	166
43	5601	5417 6134		STM	THLD+1,T9		1SJ50	27
44	5603	1402		LDN	2	INCREMENT *THLD* INDEX	V23L617	168
45	5604	3517		RAD	T9		1SJ50	28
46	5605	2177 7455		ADC	-THLDL		NS2250	1
47	5607	0742		MJN	PRS4	IF ROOM FOR MORE HOST LIDS	V23L617	171
48	5610	1400		LDN	0		241L630	150
49	5611	3412		STD	CM+2	SET NO ERROR FLAG	241L630	151
50	5612	2000 5612		LDC	*		241L630	152
51	5614	3411		STD	CM+1	ADDRESS WHERE ERROR DETECTED	241L630	153
52	5615	1421		MONITOR	CHGM	CONDITIONAL HANG FOR NO ROOM	241L630	154
							V23L617	174
54	5620	3017	PRS5	LDD	T9		1SJ50	29

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5621	0403		ZJN	PRS7	IF NO HOST LIDS DEFINED	1SJ50	30
5622	5400 5106		STM	SIQD	SAVE LENGTH OF HOST LID TABLE	V23L617	177
5624	1475	PRS7	LDK	QFTP	PRESET QFT FWA	V23L617	180
5625	6010		CRD	CM		1SJ	3792
5626	3010		LDD	CM		1SJ	3793
5627	5500 4776		RAM	IOAA-1		1SJ	3794
5631	5400 5023		STM	SIQA-1		1SJ	3795
5633	3011		LDD	CM+1		1SJ	3796
5634	5400 4777		STM	IOAA		1SJ	3797
5636	5400 5024		STM	SIQA		1SJ	3798
5640	3712		SOD	CM+2	PRESET QFT ORDINAL FOR BACKWARD SCAN	1SJ3	1
5641	3435		STD	IO		1SJ	3800
5642	1442		LDK	SSML	SET SYSTEM SECURITY MODE	NS2134	65
5643	6010		CRD	CM		NS2134	66
5644	3010		LDD	CM		NS2134	67
5645	1207		LPN	7		NS2134	68
5646	5500 4640		RAM	CEEC		NS2134	69
5650	0100 5454		LJM	PRS8	RETURN	1SJ50	31

* PRESET COMMON DECKS.

NS2437 6
NS2437 7

5652

CTEXT COMPAST - ACCESS SUBSYSTEM TABLES.

NS2437 8
COMPAST 1
NS2437 10

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ERRNG THLD-* OVERFLOW INTO *THLD*

NS2437 11
NS2437 12

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6004	3050		LDD	EJ		1SJ50	87
6005	0524		NJN	SEJ4	IF NOT AN EMPTY ENTRY	1SJ50	88
6006	3643		AOD	TP	INCREMENT EMPTY ENTRY COUNT	1SJ50	89
6007	3734	SEJ2	SOD	E0	DECREMENT EJT ORDINAL	1SJ50	90
6010	0561		NJN	SEJ1	IF EJT SCAN NOT COMPLETE	1SJ50	91
6011	3043		LDD	TP		1SJ50	92
6012	1706		SBN	/CPS/EJTR+1		1SJ50	93
6013	0703		PJP	SEJ10	IF NOT ABOVE THRESHOLD	1SJ50	94
6016	1400		LDN	0		1SJ50	95
6017	3411		STD	CM+1	SELECT *EATM* ENTER EVENT OPTION	1SJ50	96
6020	3413		STD	CM+3	STORE EVENT DESCRIPTOR	1SJ50	97
6021	1404		LDN	EJJE		1SJ50	98
6022	3414		STD	CM+4		1SJ50	99
6023	1462		MONITOR	EATM		1SJ50	100
6026	1501		LCN	1	FLAG EJT THRESHOLD	1SJ50	101
6027	0100 5747	SEJ3	LJM	SEJX	RETURN	1SJ50	102
6031	3010	SEJ4	LDD	CM		1SJ50	104
6032	1071		SHN	-6		1SJ50	105
6033	3441		STD	SC		1SJ50	106
6034	1724		SBN	MXSC		1SJ50	107
6035	0651		PJN	SEJ2	IF INVALID SERVICE CLASS	1SJ50	108
6036	1601		ADN	MXSC-DSSC		1SJ50	109
6037	0467		ZJN	SEJ3	IF DEADSTART SEQUENCING JOB	1SJ50	110
			IFNE	DSSC,MXJC,1		1SJ50	111
			ADK	DSSC-MXJC		1SJ50	112
6040	0612		PJN	SEJ6	IF NO JCB FOR SERVICE CLASS	1SJ50	113
6041	3054		LDD	EJ+4		1SJ50	114
6042	1277		LPN	77		1SJ50	115
6043	1112		LMN	TOJS*2		1SJ50	116
6044	0504		NJN	SEJ5	IF NOT TIMED/EVENT	1SJ50	117
6045	3024		LDD	AA+4		1SJ50	118
6046	1127		LMN	SCFE		1SJ50	119
6047	0403		ZJN	SEJ6	IF WAITING FOR FULL SERVICE CLASS	1SJ50	120
6050	5641 6455	SEJ5	AOM	TJCT,SC	INCREMENT ACTIVE JOB COUNT	1SJ50	121
						1SJ50	122
		*			PERFORM SUSPENSION TIME-OUT PROCESSING IF *IAF* IS	1SJ50	123
		*			ACCESSIBLE.	1SJ50	124
						1SJ50	125
6052	3054	SEJ6	LDD	EJ+4		1SJ50	126
		*	UJN	SEJ8	(IF SUSPENSION TIME-OUT DISABLED)	1SJ50	127
		6052	SEJB	EQU	*-1	1SJ50	128
6053	2200 3776		LPC	3776	MASK JOB/CONNECTION STATUS AND ADVANCE	1SJ50	129
6055	2300 0220		LMC	SUJS*2+DTCS*200		1SJ50	130
6057	0526		NJN	SEJ8	IF NOT DETACHED SUSPENDED JOB OR ROLLING	1SJ50	131
6060	3023		LDD	AA+3		1SJ50	132
6061	3225		SBD	TM		1SJ50	133
6062	0705		MJN	SEJ7	IF SUSPENSION TIME-OUT	1SJ50	134
6063	0522		NJN	SEJ8	IF NOT SUSPENSION TIME-OUT	1SJ50	135
6064	3024		LDD	AA+4		1SJ50	136
6065	3226		SBD	TM+1		1SJ50	137
6066	0617		PJN	SEJ8	IF NOT SUSPENSION TIME-OUT	1SJ50	138
						1SJ50	139
		*			SET *STET* ERROR FLAG.	1SJ50	140
6067	3030	SEJ7	LDD	BB+1		1SJ50	141
6070	0517		NJN	SEJ9	IF ERROR FLAG ALREADY SET	1SJ50	143

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6071	3050		LDD	EJ	SAVE JSN FOR *CEFM*	1SJ50	144
6072	3413		STD	CM+3		1SJ50	145
6073	3051		LDD	EJ+1		1SJ50	146
6074	3414		STD	CM+4		1SJ50	147
6075	3034		LDD	E0	SAVE EJT ORDINAL FOR *CEFM*	1SJ50	148
6076	3412		STD	CM+2		1SJ50	149
6077	2000	4027	LDC	STET+4000		1SJ50	150
6101	3411		STD	CM+1		1SJ50	151
6102	1454		MONITOR	CEFM		1SJ50	152
6105	0100	6007	LJM	SEJ2	CONTINUE EJT SCAN	1SJ50	153
6107	3050		LDD	EJ	SET FORCED ROLLIN FLAG	1SJ50	154
6110	5400	6141	STM	SEJD+3		1SJ50	155
6112	3051		LDD	EJ+1		1SJ50	156
6113	5400	6142	STM	SEJD+4		1SJ50	157
6115	3034		LDD	E0		1SJ50	158
6116	1002		CFI	EJT,,E0	GET EJT ADDRESS	1SJ50	159
6117	2100	0000	ADC	**		1SJ50	160
		6120	SEJC	EQU	*-1	1SJ50	161
6121	3414		STD	CM+4		1SJ50	162
6122	1063		SHN	-14		1SJ50	163
6123	3413		STD	CM+3		1SJ50	164
6124	1402		LDN	2		1SJ50	165
6125	3411		STD	CM+1		1SJ50	166
6126	3077		LDD	MA		1SJ50	167
6127	6311	6136	CWM	SEJD,CM+1		1SJ50	168
6131	2000	0115	MONITOR	UTEM		1SJ50	169
6135	0347		UJN	SEJ8	CONTINUE EJT SCAN	1SJ50	170
						1SJ50	171
						1SJ50	172
						1SJ50	173
6136	4030		SEJD	VFD	6/40+JSNE,6/24D,6/36D,42/0	1SJ50	174
6137	4400						
6140	0000						
6141	0000						
6142	0000						
6143	0301		VFD	6/SCLE,6/1,6/52D,42/1		1SJ50	175
6144	6400						
6145	0000						
6146	0000						
6147	0001						
						1SJ50	176
	305		ERRNG	TJCT-*	OVERFLOW INTO *TJCT*	1SJ50	177
						1SJ50	178

* *3SB* TABLE DEFINITIONS.

						271L716	541
						1SJ	3805
						1SJ	3806
	23	TJCTL	EQU	MXJC*1	LENGTH OF *TJCT* TABLE	NS2437	13
	20	TIOOL	EQU	20	NUMBER OF *TIOO* TABLE ENTRIES	NS2437A	1
	322	THLDL	EQU	MXHLD*2	LENGTH OF *THLD* TABLE	NS2437	15
						NS2437	16
						NS2437	18
6150		BEGIN	BSSN	TJAM-TJCTL-TIOOL*3-THLDL	BEGINNING OF TABLES	NS2437A	2

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	*	TI00 - SCHEDULABLE QFT ENTRIES.		1SJ	3818
	*	ENTRY = 3 WORDS.		1SJ	3819
	*			1SJ	3820
1	*T	12/ IO,12/ QP,12/ SC		1SJ	3821
2	*	IO QFT ORDINAL		1SJ	3822
3	*	QP QUEUE PRIORITY.		1SJ	3823
4	*	SC SERVICE CLASS.		1SJ	3824
5				1SJ	3825
6				1SJ	3826
7	L 6053	TI00 BSSN TI00L*3		NS2437A	3
8					
9					
10					
11					
12	**	THLD - SCHEDULABLE HOST LID-S.		NS2437	27
13	*	ENTRY = 2 WORDS.		NS21000	129
14	*			NS21000	130
15	*T	18/ LID, 6/ 0		NS21000	131
16	*	LID MAINFRAME LOGICAL ID.		NS21000	132
17				NS21000	133
18				NS21000	134
19	L 6133	THLD BSSN THLDL		NS2437	28
20				NS2437	29
21				NS2437	30
22					
23					
24					
25					
26	**	TJCT - JOB COUNTS.		1SJ50	180
27	*	ENTRY = 1 WORD.		1SJ50	181
28	*	INDEXED BY SERVICE CLASS.		1SJ50	182
29	*			1SJ50	183
30	*T	12/ CT		1SJ50	184
31	*			1SJ50	185
32	*	CT NUMBER OF EXECUTING JOBS (JOBS ASSIGNED TO EJT)		1SJ50	186
33	*	IN SERVICE CLASS.		1SJ50	187
34				1SJ50	188
35				1SJ50	189
36	L 6455	TJCT BSSN TJCTL		1SJ50	190
37	L 6500	TTEND BSSN 0 END OF LAST TABLE		NS2437	31
38	L 6500	END BSSN		NS2437	32
39					
40					
41					
42					
43	*	OVERFLOW CHECKS.		1SJ	3830
44				1SJ	3831
45				1SJ	3832
46	0	ERRNZ TJAM-TTEND TABLE OVERFLOW		NS2437	35
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					

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OVERFLOW 03SB,TJAM

271L716 542

1	225	ERRNG	.2-.1+5-.3/500B*500B	BYTES LEFT AFTER LAST SECTOR	OVERFLOW.1
2	103	ERRNG	.3/500B*500B-*.1-5	BYTES LEFT IN LAST SECTOR	OVERFLOW.1
3	103	ERRNG	.4/500B*500B-*.1-5	BYTES CAN BE ADDED TO OVERLAY	OVERFLOW.1
4	3	ERRNG	.3/500B	SECTORS NEEDED FOR OVERLAY	OVERFLOW.1
5					OVERFLOW.1
6		LIST	*		OVERFLOW.1

6150 END 1SJ 3839

76200B CM STORAGE USED 16454 STATEMENTS 4233 SYMBOLS 000106 INVENTED SYMBOLS
 PARALLEL CPU ASSEMBLY 7.075 SECONDS 3241 REFERENCES

SYMBOLIC REFERENCE TABLE.

AA	20		16/06 D	27/44 S	31/26	45/09 S	50/19	77/46 S	80/34 S	94/30
			24/42 S	27/46 S	31/29	45/20	50/21	77/47	81/15	94/36
			26/23	27/50 S	31/42	46/55	50/23	77/55 S	84/24 S	94/43
			26/43 S	27/52	31/44	47/01	62/18 S	77/56	84/25	94/45
			26/54	29/49 S	31/47	48/48 S	62/25	78/01 S	86/01	96/53 S
			26/56	30/03	40/57	48/49 S	62/27	78/05	93/50 S	97/32
			27/09 S	30/18	44/47 S	48/51 S	62/29	79/34 S	93/53	97/46
			27/11 S	30/20	44/49 S	49/45 S	62/31	80/13 S	94/08 S	97/50
			27/14	30/38 S	45/05	49/47 S	66/52 S	80/21 S	94/13	
			27/18 S	31/24	45/07	50/18 S	67/08	80/32 S	94/29 S	
ACML	22	NOSTEXT	21/29							
ADCI	2100		61/20							
AE	42		16/14 D	21/31	21/41 S	34/52	35/05	42/24 S	47/39	51/10
AFCS	72		7/37 D	75/51						
AFFL	40	NOSTEXT	80/35							
AM	37		16/12 D	21/36 S	34/48	42/20 S	47/33	67/30		
			21/30 S	21/39 S	35/01	42/22 S	51/06	67/33		
			21/31	34/46	35/03	47/31	51/08			
ARET	3	NOSTEXT	52/45	52/45						
ASJ	1257		22/48	24/26 D	67/47					
ASJA	1303		24/46 D	41/29	50/50 S					
ASJB	1474		26/31 D	46/26 S						
ASJC	1531		26/21 S	27/08 D						
ASJX	1256		24/26 L	24/34	25/08	28/03				
ASJ10	1500		26/33	26/41 L						
ASJ10.1	1530		26/53	27/07 L						
ASJ10.2	1532		27/05	27/09 L						
ASJ11	1556		27/22	27/26 L						
ASJ11.1	1602		27/34	27/39 L						
ASJ12	1612		27/28	27/31	27/38	27/44 L				
ASJ13	1615		27/24	27/46 L						

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	CCA1	2220		33/09	L	33/14	33/15							
	CCP	2234		29/38		30/47	33/31	D	41/35	41/40	42/13	42/26	47/53	
	CCPX	2233		33/31	L	33/33	33/36							
1	CDSI	7766		10/24	D									
2	CEFM	54	NOSTEXT	65/39		98/09								
3	U			60/15	F									
4	CFL	2257		22/04		22/46	34/45	D	67/26					
5	CFLA	2314		21/56	S	35/25	D	37/02	38/52	S				
6	CFLB	2453		37/01	L	38/51								
7	CFLC	2313		22/03	S	35/22	D							
8	CFLX	2256		34/35		34/45	L	34/55	35/44					
9	CFL0	2272		34/51		34/56	L							
10	CFL1	2302		35/12	L	35/17		35/20	35/23	35/29	35/36	37/03		
11	CFL10	2440		36/31		36/48	L							
12	CFL11	2242		34/33	L	34/37		34/42	36/10					
13	CFL2	2333		35/14		35/38	L							
14	CFL3	2341		35/44	L	35/53								
15	CFL4	2343		35/42		35/46	L							
16	CFL5	2353		35/51		35/55	L							
17	CFL6	2361		36/07	L	36/13		36/21	36/27	36/56				
18	CFL7	2364		36/01		36/10	L							
19	CFL8	2366		36/09		36/12	L							
20	CFL9	2401		36/21	L	36/36		36/42						
21	CHGM	21	NOSTEXT	94/55										
22	CM	10	NOSTEXT	22/07	S	30/08	40/04	54/16	62/02	73/53	S	84/05	S	94/22
23				22/12	S	30/10	40/08	S	57/49	S	62/07	73/55	S	84/06
24				23/02	S	30/36	S	40/10	S	58/03	S	62/20	S	73/57
25				23/04	S	30/39	40/11	58/05	62/33	74/02	84/20	S	95/04	S
26				23/06		30/51	40/14	58/07	65/32	S	78/11	S	85/15	95/05
27				24/29	S	36/22	S	40/16	58/10	S	65/34	S	78/13	S
28				24/31	S	36/24	S	40/18	S	58/11	S	65/36	S	78/40
29				24/33		36/28	S	40/20	S	58/12	65/38	S	78/45	S
30				25/02	S	36/37	S	40/22	58/15	S	65/41	S	78/54	S
31				25/05	S	36/39	S	40/47	S	58/17	65/43	78/56	90/07	96/57
32				25/24	S	36/44	40/49	S	58/19	S	65/45	79/24	S	90/10
33				25/26	S	36/46	40/56	S	58/22	66/54	S	79/26	S	90/11
34				25/28		36/48	41/01	S	58/24	66/55	79/36	S	90/12	97/13
35				25/37	S	36/50	41/03	61/13	S	67/05	S	79/39	90/15	S
36				25/42		36/52	43/36	S	61/14	67/20	80/42	S	90/17	98/02
37				25/46	S	37/30	S	43/37	61/16	67/41	S	80/45	S	90/19
38				26/05	S	37/31	45/11	S	61/22	67/42	80/48	S	90/22	98/06
39				26/27		37/34	45/22	61/26	S	72/25	S	80/50	S	90/24
40				27/54	S	37/37	S	45/37	61/27	72/26	80/52	91/52	S	98/20
41				27/57	S	37/38	45/43	61/30	72/28	80/55	S	91/53	98/22	S
42				29/05	S	39/16	S	45/46	61/34	S	72/39	S	81/01	S
43				29/11		39/19	S	46/34	61/37	S	72/40	81/05	S	92/11
44				29/12		39/24	47/09	61/38	73/46	S	81/09	S	92/12	S
45				29/28	S	39/55	S	49/02	61/49	S	73/47	81/17	92/13	
46				30/02	S	40/01	S	54/13	S	61/50	73/49	81/26	S	92/18
47				30/05		40/03	S	54/14	62/01	S	73/51	S	81/28	S
48	CP	74	NOSTEXT	26/22		61/45								
49	CPET	7	NOSTEXT	52/49		52/49								
50	CPR	4241		27/04		30/25	60/13	D						
51	CPR\$	1		55/29	D	56/31	F	60/12	F					
52	CPSS	7140		66/23		66/31	S							
53	CS	57		16/20	D	32/06	S	36/34	36/47	S	50/22	S		
54				32/04	S	36/32		36/45	S	50/20	S			

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EXR	462	NOSTEXT	21/16	22/39							
FJEJ	3		5/31	L							
FLET	16	NOSTEXT	52/53	52/53							
FLIW	65	NOSTEXT	30/37								
FLSW	23	NOSTEXT	29/04	29/06							
FSET	22	NOSTEXT	52/56	52/56							
FTN	165	NOSTEXT	22/13	25/03	28/01	41/02	68/49	78/14	80/51	97/14	
			22/57	25/06	39/23	65/39	72/36	78/55	81/29	98/09	
			24/32	27/55	40/21	65/42	74/01	79/27	94/55	98/27	
FZSI	4		10/45	D							
HEER	12		6/05	L							
HN	71	NOSTEXT	68/46	84/41	86/42						
HNGM	22	NOSTEXT	72/36								
IACS	76		8/15	D	75/33						
IAOT	3	NOSTEXT	80/04	86/03							
IDCS	1		7/25	D							
IDET	25	NOSTEXT	53/01	53/01							
IEER	1		5/53	L							
IFSI	7776		10/16	D	93/28						
INQF	0		79/50		84/13						
INQT	0	NOSTEXT	85/37								
INSQ	2	NOSTEXT	79/35	79/37	84/21	84/23					
INT	2522		21/20	38/18	D						
INTX	2521		38/18	L	38/57						
INT1	2515		38/15	L	38/29						
INWL	124	NOSTEXT	61/48								
IO	35		16/10	D	81/25	83/57	84/08	S	87/01		
			79/08	S	83/11	84/01	86/21	95/12	S		
IOER	3		5/55	L							
IOJS	6		4/34	D	53/43	53/43					
IPER	5		5/57	L							
IR	50	NOSTEXT	61/43								
IRR	2621		34/41	39/15	D	42/34	67/23				
IRRX	2620		39/15	L	39/25						
IRSI	1		10/47	D							
ISCS	75		8/09	D							
ISER	2		5/54	L							
ITET	4	NOSTEXT	52/46	52/46							
IUT	2642		39/51	D	49/15	65/48	67/16	79/12	79/54		
IUTA	2663		40/05	S	40/07	D					
IUTB	2673		39/52	S	40/15	D					
IUTC	2710		40/04	40/25	L						
IUTX	2641		39/51	L	40/23						
IUT1	2674		40/12	40/16	L						
I1CS	72		7/51	D	75/35						
I1SI	7774		10/18	D							
I2CS	72		7/52	D	75/36						
I2SI	7773		10/19	D							
JACM	63	NOSTEXT	25/03								
JC	63		16/23	D	22/11	27/10	32/10	S	38/21	S	66/49
			21/47	24/27	27/49	35/16	41/26	S	67/22		
JCBE	14	NOSTEXT	25/51								
JCIW	26	NOSTEXT	26/26	26/28	29/27	29/29	66/51	66/53			
JCTT	12	NOSTEXT	77/45	78/04	85/21						
JDER	13		6/06	L							
JE	65		16/25	D	24/53	S	25/12	31/39	S	31/56	S
JFER	6		6/01	L						34/53	35/50
										50/38	S

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JM	64		16/24 D	24/55 S	26/46	32/01 S	35/41	50/34 S		
JOER	22		24/50	26/34 S	31/37 S	34/49	50/31	67/35		
JP	62		6/13 L							
JP	62		16/22 D	32/08 S	38/20 S	47/46	50/28 S			
JSCCL	43	NOSTEXT	31/22	35/18	42/10	50/25	67/19			
JSET	41	NOSTEXT	23/01	23/05						
JSNE	0	NOSTEXT	53/12	53/12						
JSNQ	0	NOSTEXT	24/39	29/46	44/45	52/25	64/57	67/52	81/20	96/52
JSOS	0	NOSTEXT	24/41	29/48	45/08	52/30	65/02	68/09	96/50	98/31
JS1S	1	NOSTEXT	79/31	79/33	84/04					
JS2S	2	NOSTEXT	38/16 S	43/46 S	54/12	55/07 S	55/11 S	55/19		
JS3S	3	NOSTEXT	43/44 S	54/10	54/17	55/09 S	55/13	55/20		
LCCS	76		39/20 S	39/22 S	54/34 S	54/36 S				
LDDI	3000		54/40 S	54/42 S	54/48 S	54/50 S				
LDRC	1		54/10	54/12	54/54 S	54/56 S	55/02 S	55/04 S	55/20	
LIDP	140	NOSTEXT	8/11 D							
LJCS	2		38/45	38/49						
LJMI	100		6/25 L							
LMNI	1100		93/45							
LOSL	112	NOSTEXT	7/27 D							
LSCS	70		84/40							
LSSI	7745		83/45							
LTCS	72		25/23	25/27	61/36					
MA	77	NOSTEXT	7/31 D	25/47						
MAER	4		10/41 D	10/43	11/01	26/06	27/30			
MCCS	72		7/41 D							
MCMT	4	NOSTEXT	27/51	40/13	73/56	78/42	98/25			
MCSI	7765		5/56 L							
MCTP	134	NOSTEXT	7/39 D	75/42						
MECT	5	NOSTEXT	62/21	62/23						
MFCS	72		10/25 D							
MFSI	7763		7/36 D	75/43	75/48					
MLCS	74		10/27 D							
MLET	14	NOSTEXT	7/55 D	75/40						
MNFL	12	NOSTEXT	52/51	52/51						
MPCS	72		46/14	49/05						
MPRS	100	NOSTEXT	7/45 D	75/38						
MPSI	7771		8/19 D							
MRCS	76		10/21 D							
MSCS	0		8/14 D							
MSSI	7756		7/23 D							
MTCS	76		10/32 D							
MTRM	66	NOSTEXT	8/12 D	75/46						
MTSI	7760		78/55	79/27	81/29					
MVCS	75		10/30 D							
MXCS	3		8/06 D							
MXDT	7		5/08 D							
MXEJ	11		6/31 L							
MXET	47	NOSTEXT	5/37 L							
MXHLD	151	NOSTEXT	45/44	53/17						

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MXJC	23		17/42	28/38 S	47/04	49/28	62/14	62/38 S	80/25
			18/23		47/07	49/31	62/28 S	62/40 S	93/35
			18/44	31/14 S	48/55	49/32	62/30 S	62/42 S	97/25 F
			26/20		49/04	49/52	62/32 S	62/44 S	98/51
			28/34		49/08	60/43	62/36 S	77/38	
MXJS	16		4/45 D	53/52					
MXPR	7777		15/18 D	45/17	45/18				
MXSC	24		97/21	97/23					
MXSI	7776		10/16 D	10/43	11/01	26/08			
NC	66		16/26 D	27/56	28/55	30/43	33/13	42/07	66/28
			25/04	28/53	29/34	33/09	33/35	61/47 S	66/48
NDER	10		6/03 L						
NICS	0		5/04 D	80/07					
NJCS	72		7/48 D	75/53					
NJSI	7751		10/37 D						
NMCS	77		8/17 D	75/39					
NMSI	7770		10/22 D						
NOER	0		5/52 L						
NOPE	5	NOSTEXT	37/23						
NRER	14		6/07 L						
NSCS	74		7/57 D						
NSER	17		6/10 L						
NTER	16		6/09 L						
NVCS	74		8/02 D						
NVJS	13		4/42 D	53/48	53/48				
NVSI	7767		10/23 D						
ODET	24	NOSTEXT	45/38	52/57	52/57				
OKET	35	NOSTEXT	53/05	53/05					
OLCS	2		5/06 D	45/33	45/35	80/07	80/08		
ON	70	NOSTEXT	72/30	78/43					
ORET	46	NOSTEXT	47/12	53/16	53/16				
ORSI	3		10/46 D						
O3SA	4360		60/34 D	64/01	64/06	76/10			
O3SB	4360		60/35 D	77/01	77/06	100/01			
PCET	10	NOSTEXT	52/50	52/50					
PCJS	11		4/37 D	30/16	41/31	47/50	53/46		
			26/52	40/53	47/21	53/46			
PCPP	134	NOSTEXT	61/12	61/23					
PDRC	5		6/29 L						
PEET	44	NOSTEXT	53/11	53/11					
PFCS	72		7/46 D						
PIDL	6		6/30 L						
PLCS	74		8/04 D	75/54					
PLSI	7750		10/38 D	27/32					
PPAL	52	NOSTEXT	43/35						
PPET	6	NOSTEXT	52/48	52/48					
PPFW	1100	NOSTEXT	21/04	63/15					
PPR	257	NOSTEXT	23/07						
PRCS	75		8/08 D						
PRFE	2	NOSTEXT	45/10	45/12	65/04	67/40	81/16	81/18	96/54
PRJS	0		4/28 D	53/37	65/08	80/10			
PRS	4354		21/07	61/11 D					
PRSA	4555		62/05	62/51 L					
PRSB	4556		61/55	62/56 L					
PRSX	4353		61/11 L	62/49					
PRS0	4455		61/54	61/57 L					
PRS0.1	4466		62/04	62/07 L					

	SCJ11	1242		22/16	22/52	22/57 L			
	SCJ12	1254		22/41	23/07 L				
	SCJ2	1143		22/01	22/04 L				
1	SCJ3	1162		22/05	22/06	22/10	22/16 L	22/20	
2	SCJ4	1164		21/48	22/18 L				
3	SCJ5	1211		22/32	22/39 L				
4	SCJ6	1217		22/38	22/43 L				
5	SCJ7	1221		22/28	22/44 L				
6	SCJ8	1225		22/35	22/47 L				
7	SCJ9	1235		22/45	22/53 L				
8	SCLE	3	NOSTEXT	24/43	27/15	45/12	81/20	98/36	
9				26/44	29/50	81/18	96/56		
10	SCLQ	3	NOSTEXT	79/37	84/23				
11	SCP	2741		22/43	41/28 D	66/34			
12	SCPA	2773		29/36	38/38 S	41/37 S	44/24	54/57	
13				29/41 S	41/34	41/45 D	47/52		
14	SCPB	2776		30/45	30/50 S	38/39 S	41/39	41/42 S	41/48 D
15	SCPC	3007		41/38 S	41/43 S	41/57 D			
16	SCPX	2740		41/28 L	42/04				
17	SCP1	2761		41/36	41/39 L				
18	SCP2	2772		41/33	41/41	41/44 L			
19	SCP3	3004		41/52 L	42/08	42/16			
20	SCP3.1	3007		41/55 L	42/11				
21	SCP3.2	3014		42/01	42/04 L				
22	SCP3.3	3016		41/54	42/06 L				
23	SCP4	3033		42/14	42/17 L				
24	SCP5	3053		42/27	42/32 L				
25	SCP6	3055		42/30	42/33 L				
26	SCP7	3060		42/35 L					
27	SCP8	2736		41/25 L	41/49	42/35			
28	SCP9	2737		41/26 L	41/46				
29	SDAP	102	NOSTEXT	54/12					
30	SFER	21		6/12 L					
31	SFJ	3102		22/26	43/43 D				
32	SFJA	4004		43/47	43/53 S	44/03 S	52/01 L	61/39 S	
33	SFJB	3131		38/46 S	44/10 D	44/33 S	52/04	54/37	
34	SFJC	3132		38/54 S	44/13 D	50/13 S	52/14	52/19	
35	SFJD	3170		44/44 D	61/29 S	61/33 S			
36	SFJE	3356		46/53 S	47/02 L				
37	SFJF	3370		47/11 D	62/06 S	62/52			
38	SFJG	3461		38/43 S	48/06 D	50/39	50/42 S		
39	SFJH	3530		38/48 S	44/35 S	48/43 D			
40	SFJI	3536		38/50 S	44/37 S	48/54 D	52/09		
41	SFJJ	3626		50/03 D	50/52 S	51/05 S			
42	SFJK	3467		38/40 S	48/11 D	48/24 S			
43	SFJL	3502		38/41 S	48/20 D	48/28 S			
44	SFJM	3063		38/44 S	43/29 D	48/16	48/26 S		
45	SFJN	4005		44/32	52/03 L	54/38			
46	SFJO	4006		44/36	52/08 L				
47	SFJP	4007		50/12	52/13 L				
48	SFJQ	4010		38/53	52/18 L				
49	SFJR	3115		38/56 S	43/55 D	46/27	46/28	46/29 S	
50	SFJS	3122		44/02 D	61/35 S	96/45			
51	SFJT	3127		44/06 D	61/40 S				
52	SFJU	4011		45/04 S	49/14	52/25 L			
53	SFJV	3267		45/47 L	61/56 S	62/57			
54	SFJW	3133		44/26 D	62/10	62/10 S			

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SFJX	3101	43/31	43/40	44/27	46/28	62/10		
		43/38	43/43 L	46/27	50/55			
SFJY	3405	42/02 S	47/25 D					
SFJ10	3325	46/03	46/06	46/34 L				
SFJ10.1	3326	46/35 L						
SFJ10.2	3333	46/39 L						
SFJ10.3	3335	46/38	46/41 L					
SFJ10.5	3336	46/42 L						
SFJ11	3337	46/35	46/43 L					
SFJ11.1	3365	47/05	47/07 L					
SFJ12	3370	46/07	46/43	46/46	47/09 L			
SFJ12.1	3374	47/13	47/15 L					
SFJ12.2	3400	47/16	47/19 L	62/53				
SFJ12.3	3415	47/22	47/31 L					
SFJ12.4	3426	47/37	47/39 L					
SFJ12.5	3435	46/30	47/41	47/45 L				
SFJ12.6	3453	47/51	47/57 L					
SFJ13	3456	48/03 L						
SFJ13.0	3460	48/02	48/05 L					
SFJ13.1	3465	47/48	47/54	48/09 L				
SFJ13.2	3466	47/47	48/08	48/10 L	50/56			
SFJ13.3	3472	48/14 L						
SFJ13.4	3505	48/13	48/17	48/23 L				
SFJ14	3517	48/14	48/18	48/22	48/29 L	49/13		
SFJ15	3521	48/09	48/35 L					
SFJ15.1	3522	48/03	48/36 L					
SFJ16	3527	48/41 L						
SFJ18	3531	48/40	48/47 L	51/25				
SFJ19	3541	48/57 L	49/03	52/10				
SFJ2	3115	43/53 L	44/38	45/52	47/17	47/55	51/27	
		44/34	44/55	46/39	47/26	48/29		
SFJ20	3543	48/56	49/02 L					
SFJ21	3556	49/07	49/11 L					
SFJ21.2	3572	49/10	49/28 L					
SFJ22	3615	49/34	49/52 L					
SFJ23	3625	49/39	50/01 L					
SFJ24	3627	49/16	50/12 L	51/04				
SFJ25	3635	49/57	50/18 L					
SFJ26	3636	48/57	49/55	50/19 L				
SFJ27	3703	50/14	50/51 L					
SFJ29	3716	38/47	48/41	50/01	50/51	51/04 L		
SFJ2.1	3126	43/57	44/05 L					
SFJ2.2	3163	44/11	44/40 L	52/05	52/15	52/20		
SFJ3	3165	43/49	44/07	44/42 L				
SFJ30	3732	51/14 L	51/32	51/56				
SFJ30.1	3747	51/21	51/24	51/27 L				
SFJ31	3751	51/16	51/29 L					
SFJ32	3772	51/35	51/50 L					
SFJ33	3062	43/28 L	44/40					
SFJ34	3077	43/34	43/41 L					
SFJ4	3202	44/51	44/55 L	45/01				
SFJ5	3204	44/54	44/57 L					
SFJ5.1	3262	45/29	45/36	45/39	45/43 L			
SFJ6	3273	45/26	45/34	45/42	45/45	45/47	45/52 L	46/01
SFJ7	3275	45/23	45/56 L	53/06	53/07			63/01

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	SFJ8	3306		46/07 L	52/47	52/50	52/53	52/56	53/02	53/09	
				52/45	52/48	52/51	52/54	52/57	53/04	53/10	
				52/46	52/49	52/52	52/55	53/01	53/05	53/11	
1	SFJ9	3310		46/14 L	53/03	53/08	53/12	53/13	53/14	53/15	53/16
2	SFLM	10	NOSTEXT	22/13							
3	SHNI	1000		46/51	58/02	90/02	91/55				
4	SIJS	3		4/31 D	46/45	53/40	53/40				
5	SISS	7137		26/04	27/29	27/35	65/19	65/57	66/13	67/12	
6				26/09	27/33	27/41	65/23 S	66/09	66/17		
7	SMCS	72		7/44 D	75/49						
8	SMSI	7755		10/33 D							
9	SOJS	4		4/32 D	53/41	53/41					
10	SOMI	5700		38/55							
11	SP	61		16/21 D	22/36	26/01	27/01	32/14 S	50/48 S	67/46 S	
12				22/30	25/31	26/20	27/26	36/30	50/53		
13	SPST	4213		38/16 S	43/44 S	54/36 S	54/48 S	54/56 S	55/07 S	55/13	
14				39/20 S	43/46 S	54/40 S	54/50 S	55/02 S	55/09 S	55/19 D	
15				39/22 S	54/34 S	54/42 S	54/54 S	55/04 S	55/11 S		
16	SRET	20	NOSTEXT	52/55	52/55						
17	SSA	4111		38/15	54/09 D	55/12					
18	SSAX	4110		54/09 L	54/18						
19	SSCP	135	NOSTEXT	72/24							
20	SSCS	74		8/03 D	75/50						
21	SSCTL	5		11/02 D							
22	SSER	23		6/14 L							
23	SSET	32	NOSTEXT	53/09	53/09	65/37	67/43				
24	SSML	42	NOSTEXT	95/13							
25	SSSC	7		22/37	26/02	57/43	80/18	89/43			
26				25/51	27/27	78/51	84/33	91/48			
27	SSSI	7754		10/34 D							
28	SSTL	45	NOSTEXT	61/57							
29	SSWE	35		68/07							
30	STET	27	NOSTEXT	53/04	53/04	98/07					
31	STSI	7757		10/31 D							
32	STSW	20	NOSTEXT	30/35	30/37						
33	U SUB\$			11/03 F							
34	SUJS	10		4/36 D	45/28	53/45	53/45	97/44			
35	SVET	42	NOSTEXT	53/08	53/08						
36	SVJT	3	NOSTEXT	25/34	25/36	62/19	62/21	77/43	77/45		
37	SWET	45	NOSTEXT	53/15	53/15						
38	SWJS	15		4/44 D	52/34	53/50	53/50				
39	SYCS	76		8/13 D							
40	SYET	43	NOSTEXT	53/13	53/13	81/08					
41	SYSC	1		78/47	78/49	83/45	84/31				
42	TACP	6407		19/19 D	19/33	28/42	28/45 S	32/23			
43	TACPE	1		19/18 D							
44	TACS	72		7/42 D	75/37						
45	TAET	2	NOSTEXT	53/07	53/07						
46	TDAC	4353		17/14 L	37/18 S	48/07	48/25	50/41			
47				17/28	37/39 S	48/15	50/40 S				
48	TDACE	1		17/15 D							
49	TE	36		16/11 D	28/46 I	32/50 S	34/56	51/12			
50				28/43 S	32/36	32/52 I	41/50				
51	TEFP	4023		45/46	52/44 L	52/44					
52	TEPB	6662		18/23 D	26/20	47/03	47/07	62/28 S	62/32 S		
53				18/44	46/52	47/04	62/26 S	62/30 S	80/25		
54	TEPBE	4		18/22 D	18/23						

T2	2	NOSTEXT	26/57 S	42/06 S	45/24	50/26 S	71/50 S	85/45 S	89/54	93/49
			30/21 S	42/09	45/27	50/29	72/16	85/49 S	90/14	94/06
			32/28 S	42/12	46/04	50/32 S	72/31	86/09	91/41 S	94/27
			32/29	42/19	46/36	50/35	72/34	86/19	91/44 S	
			32/37 S	42/23	46/44	51/09 S	73/04	86/29	91/51	
			32/38	42/25	47/20	51/17	80/33	86/34	92/07 S	
			32/39 I	42/33	47/49	51/53 S	85/18 S	86/52	92/15	
			32/40 S	45/03 S	49/11	58/14	85/28	87/03	92/16 S	
T3	3	NOSTEXT	26/51 S	36/26	51/07 S	71/52	72/44	73/35	82/37	86/55 S
			27/20	36/29	51/19	71/53 S	72/53	73/36 S	82/40	86/56
			36/16 S	36/35	51/51 S	72/09 S	73/18	73/38 S	82/44	93/54 S
			36/20	36/41	71/48 S	72/12 S	73/25	82/31 S	82/46 S	93/57 S
T4	4	NOSTEXT	36/06 S	36/55 I	51/55 S	72/06 S	72/29	82/41	86/08	86/51
			36/07 S	51/11 S	68/33 S	72/07 S	73/50	82/43 S	86/30	
			36/08	51/22	68/40 S	72/20 S	82/28 S	83/56 S	86/35 S	
T5	5	NOSTEXT	29/14 S	31/30	35/38	36/17	49/36	82/23	83/54 S	87/02
			30/54	35/02 S	35/48 S	36/49 S	51/43 S	82/29 S	86/33 S	87/04
			31/13	35/33 S	35/56	48/36 S	65/03 S	82/45 S	86/54	87/06
T6	6	NOSTEXT	25/43 S	29/21 S	35/04 S	35/57	49/38	85/07	94/17 S	
			25/53	31/01	35/31 S	36/19	51/41 S	85/11 S	94/21 S	
			26/13 S	31/17	35/40	36/51 S	85/02 S	93/52 S	94/24 S	
			26/16	31/48	35/46 S	48/37 S	85/04	94/07	94/28	
T7	7	NOSTEXT	26/10 S	35/49	48/38 S	78/46	82/30	86/20	86/36	
			26/11	35/55 S	49/56	79/07	83/52 S	86/22		
			35/06 S	36/25	51/45 S	79/09	84/39 S	86/24		
			35/35 S	36/53 S	77/31	79/15 S	86/15 S	86/32		
T8	16		16/04 D							
T9	17		16/05 D	93/56 S	94/44	94/46	94/48 S	94/57		
UDRC	4		6/28 L							
UJNI	300		46/27	83/48	93/32					
UJSI	0		10/48 D							
USD	4123		22/49	22/56	54/32 D					
USDA	4146		38/35 S	44/29 S	47/38 S	54/47 D				
USDB	4155		38/36 S	44/30 S	47/43 S	54/53 D				
USDC	4174		38/37 S	44/31 S	47/19 S	55/06 D				
USDX	4122		54/32 L	55/14						
USD1	4145		54/33	54/45 L						
USD2	4173		54/39	54/43	55/01	55/05 L				
UTEM	115	NOSTEXT	40/21	74/01	98/27					
VSAM	120	NOSTEXT	80/51							
ZERL	66	NOSTEXT	25/29	25/44	27/17	78/10	80/54			
(3SA)	0		22/39 D							
(3SB)	0		21/16 D							
.A	35		11/01 D	11/02						
.DLY	255	NOSTEXT	68/48							
.EMS	535	NOSTEXT	65/18							
.EST	245	NOSTEXT	37/28							
.SMS	475	NOSTEXT	65/13							

.V	2000	53/37 D	53/38 D	53/40 D	53/41 D	53/43 D	53/46 D	53/47 D	53/50 D
		53/37	53/38	53/40	53/41	53/43	53/46	53/47	53/50
		53/37 D	53/39 D	53/40 D	53/41 D	53/44 D	53/46 D	53/48 D	53/50 D
		53/37	53/39	53/40	53/41	53/44	53/46	53/48	53/50
		53/37 D	53/39 D	53/40 D	53/42 D	53/45 D	53/46 D	53/49 D	
		53/37	53/39	53/40	53/42	53/45	53/46	53/49	
		53/37 D	53/39 D	53/40 D	53/42 D	53/45 D	53/47 D	53/49 D	
		53/37	53/39	53/40	53/42	53/45	53/47	53/49	
		53/37 D	53/39 D	53/41 D	53/42 D	53/46 D	53/47 D	53/49 D	
		53/37	53/39	53/41	53/42	53/46	53/47	53/49	

SYMBOL QUALIFIER = CPS

CCPS	1	25/01	
CFIN	40	66/36	67/37
EJTR	5	97/07	
ENRS	4000	24/28	
PEJT	4	78/44	79/25
PQFT	3	81/27	
RCPS	2000	24/28	
ROPR	20	42/32	
ROSR	0	34/40	42/29
SFIN	0	64/53	
VJLS	6	80/49	

SYMBOL QUALIFIER = DSL

NCPS	34	19/19	19/33	19/47	20/10	20/24
NPPS	34	19/19	19/33	19/47	20/10	20/24

SYMBOL QUALIFIER = MACRO\$

CFI	6116	37/55 D	44/42 D	83/11 D	84/01 D	96/47 D	98/17 D		
DELAY	4713	68/48 D							
ENDMS	5227	65/18 D							
EXECUTE	1211	21/16 D	22/39 D						
ISTORE	4471	62/10 D							
MONITOR	6131	22/13 D	25/03 D	28/01 D	41/02 D	68/49 D	78/14 D	80/51 D	97/14 D
		22/57 D	25/06 D	39/23 D	65/39 D	72/36 D	78/55 D	81/29 D	98/09 D
		24/32 D	27/55 D	40/21 D	65/42 D	74/01 D	79/27 D	94/55 D	98/27 D
OVERFLOW	6150	63/15 D	76/10 D	100/01 D					
PAUSE	4717	68/49 D							
SETMS	4401	65/13 D							
SFA	2467	37/28 D							

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SYMBOL QUALIFIER = 3SA

1	ASSI	7753	75/51	75/51									
2	AST	4726	27/37	27/43	66/10	66/20	71/47	D					
3	ASTA	5073	71/57 S	73/10 S	73/41	D							
4	ASTB	5126	72/54 S	73/08 S	73/27 S	73/33 S	73/43 S	73/57	74/08	L			
5	ASTC	5133	72/52 S	73/06 S	73/29 S	73/31 S	73/44 S	74/14	L				
6	ASTD	5140	72/30 S	72/44	72/53	73/18	73/25	74/29	L				
7	ASTX	4725	71/47 L	72/45	73/21	74/03							
8	AST1	4743	72/07 L	72/10									
9	AST10	5045	73/25 L	74/52									
10	AST11	5050	73/19	73/27 L									
11	AST12	5056	72/56	73/12	73/31	L							
12	AST2	4756	72/18	72/24 L									
13	AST3	4775	72/33	72/36 L									
14	AST4	5001	72/35	72/39 L									
15	AST5	5004	72/44 L	74/43	74/50								
16	AST6	5010	72/51 L	74/44									
17	AST7	5021	73/04 L	74/45	74/46								
18	AST8	5035	73/16 L	74/51									
19	AST9	5043	73/21 L	73/26									
20	AST\$	1	69/06 D	71/55 F	72/47	F							
21	ATSI	7747	75/55	75/55									
22	BISI	7761	75/45	75/45									
23	CDSI	7766	75/41	75/41									
24	CEAF	5	74/51 L										
25	CSCF	2	73/05	74/45 L									
26	C1SI	7746	75/56	75/56									
27	DSSI	7777	66/01	66/03									
28	FEAF	4	27/36	66/08	74/50	L							
29	FECF	0	66/19	74/43 L									
30	IFSI	7776	65/22	67/13	75/33								
31	I1SI	7774	75/35	75/35									
32	I2SI	7773	75/36	75/36									
33	LSSI	7745	66/03	76/01									
34	MAXF	7	72/32	74/54 L									
35	MCSI	7765	75/42	75/42									
36	MFSI	7763	75/43	75/43									
37	MNAF	4	72/17	74/48 L									
38	MPSI	7771	75/38	75/38									
39	MSSI	7756	75/48	75/48									
40	MTSI	7760	75/46	75/46									
41	MXSI	7776	71/51	75/36	75/40	75/43	75/47	75/50	75/54				
42			75/33	75/37	75/40	75/44	75/47	75/51	75/54				
43			75/34	75/37	75/41	75/44	75/48	75/51	75/55				
44			75/34	75/38	75/41	75/45	75/48	75/52	75/55				
45			75/35	75/38	75/42	75/45	75/49	75/52	75/56				
46			75/35	75/39	75/42	75/46	75/49	75/53	75/56				
47			75/36	75/39	75/43	75/46	75/50	75/53	76/01				
48	NJSI	7751	75/53	75/53									
49	NMSI	7770	75/39	75/39									
50	NVSI	7767	75/40	75/40									
51	ORSI	3	67/10										
52	PLSI	7750	66/12	75/54	75/54								
53	QUAL\$	1	64/08 D	70/06 F	75/02	F							
54	RBSI	7762	75/44	75/44									

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	RDSI	7764	65/20				
	RFSI	7775	75/34	75/34			
	RSS	5160	65/16				
1	SCI	4676	64/54	66/37	67/38	68/37	D
2	SCIX	4675	68/37	L 68/43			
3	SCI1	4702	68/34	68/41	L		
4	SCI2	4713	68/48	L 68/51			
5	SCI3	4672	68/33	L 68/52			
6	SCI4	4674	68/35	L 68/45			
7	SEAF	6	27/42	74/52	L		
8	SECF	1	74/44	L			
9	SFI	5235	68/42				
10	SFI\$	1	75/16	D			
11	SMSI	7755	75/49	75/49			
12	SSCF	3	74/46	L			
13	SSCTL	5	72/19				
14	SSS	4361	64/52	D			
15	SSSA	4473	65/09	S 66/06	D		
16	SSSB	4653	65/44	S 65/46	S 65/47	67/52	L
17	SSSD	4660	67/15	68/03	L 68/15		
18	SSSDL	2	67/15	68/15	D		
19	SSSI	7754	75/50	75/50			
20	SSSX	4360	64/52	L 64/55	66/39	67/48	
21	SSS1	4423	65/21	65/24	L		
22	SSS10	4547	66/29	66/48	L		
23	SSS10.1	4550	66/33	66/49	L		
24	SSS11	4560	66/35	66/57	L		
25	SSS12	4562	66/56	67/02	L		
26	SSS16	4612	67/09	67/11	67/19	L	
27	SSS17	4620	67/21	67/24	L 67/36		
28	SSS18	4622	66/57	67/26	L		
29	SSS19	4647	67/44	67/47	L		
30	SSS2	4425	65/17	65/31	L 66/15	67/14	
31	SSS3	4461	65/50	L 66/02			
32	SSS4	4463	65/24	65/57	L		
33	SSS5	4513	66/07	66/11	66/14	66/17	L
34	SSS6	4521	66/04	66/23	L		
35	SSS7	4534	66/24	66/32	L		
36	SSS8	4536	65/50	66/26	66/34	L	
37	SSS9	4541	66/36	L 67/17	67/24		
38	STSI	7757	75/47	75/47			
39	SUB\$	1	69/04	D			
40	TAST	5145	72/34	74/40	L		
41	TLSI	7752	75/52	75/52			
42	TRSI	7772	75/37	75/37			
43	TSCI	5251	26/11	75/30	L 75/30		
44	.IO	0	65/13	D 65/13			
45	.4	1467	76/10	D 76/15			

SYMBOL QUALIFIER = 3SB

53	AST	5653	93/29				
54	CEE	4452	77/34	78/35	D		

	CEEA	4730	78/43	81/34 L			
	CEEB	4735	79/41 S	80/40	80/56	81/02	81/39 L
	CEEC	4640	80/37 L	95/17 S			
1	CEEX	4451	78/35 L	79/28			
2	CEE1	4453	78/39 L	79/20			
3	CEE10	4665	80/39	80/54 L			
4	CEE11	4704	81/07	81/13 L			
5	CEE1.1	4473	78/48	78/50	78/53 L		
6	CEE1.2	4476	78/52	78/55 L			
7	CEE2	4503	79/06 L				
8	CEE2.1	4504	79/07 L	79/19			
9	CEE3	4517	79/14 L	79/55			
10	CEE4	4521	78/57	79/15 L	81/31		
11	CEE4.1	4530	79/17	79/22 L			
12	CEE4.2	4540	79/23	79/28 L			
13	CEE5	4542	79/13	79/30 L			
14	CEE6	4570	79/48	79/53 L			
15	CEE7	4576	79/52	80/02 L			
16	CEE8	4604	80/06	80/08 L			
17	CEE8.1	4617	80/16	80/20 L			
18	CEE9	4622	80/19	80/25 L			
19	CET	5405	80/30	91/43 D			
20	CETA	5431	91/56 S	92/06 D			
21	CETX	5404	91/43 L	92/21			
22	CET0	5413	91/47	91/49 L			
23	CET1	5431	92/03	92/05 L			
24	CET2	5403	91/41 L	92/01			
25	CET\$	1	87/21 D	90/37 F			
26	CPR	5311	85/38	89/37 D			
27	CPRA	5326	89/38 S	89/48 D			
28	CPRB	5370	90/04 S	90/25 L			
29	CPRC	5372	90/06 S	90/27 D			
30	CPRD	5400	90/08 S	90/28	90/32 D		
31	CPRX	5310	89/37 L	89/55	90/33		
32	CPR0	5321	89/42	89/44 L			
33	CPR1	5376	90/21	90/30 L			
34	CPR2	5377	90/29	90/31 L			
35	CPR3	5307	89/35 L	89/40	89/46		
36	CPR\$	1	87/20 D	88/31 F			
37	FECF	0	93/28				
38	FLP	4740	82/25 D	86/05	87/11		
39	FLPA	4753	82/26 S	82/35 D			
40	FLPX	4737	82/25 L				
41	FLP1	4750	82/32 L	82/47			
42	FLP2	4761	82/36	82/40 L			
43	FLP3	4770	82/39	82/42	82/46 L		
44	FLP4	4736	82/23 L	82/33			
45	IOA	4773	40/26	79/30	83/10 D	84/18	
46	IOAA	4777	83/13 D	95/06 S	95/09 S		
47	IOAX	4772	83/10 L	83/14			
48	IOQ\$	1	87/22 D	89/51 F			
49	PRS	5457	77/28	93/27 D			
50	PRSA	5455	93/26 D	93/42 S	93/44 S		
51	PRSX	5456	93/27 L				
52	PRS0	5472	93/31	93/35 L			
53	PRS0.1	5474	93/37 L	93/40			
54	PRS1	5525	93/57 L	94/18			

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	PRS2	5531	94/01	94/04	L					
	PRS3	5550	94/15	94/20	L					
	PRS4	5552	94/22	L	94/31	94/38	94/40	94/42	94/50	
1	PRS5	5620	94/23	94/57	L					
2	PRS7	5624	94/02	95/01		95/03	L			
3	PRS8	5454	93/25	L	95/18					
4	QUAL\$	1	77/08	D	88/06	F	92/29	F		
5	SEI3	4376	77/40	L	78/06					
6	SEJ	5750	93/41		96/36	D				
7	SEJA	5774	96/40	S	96/43	S	96/49	D		
8	SEJB	6052	93/32		93/33	S	93/34		97/42	D
9	SEJC	6120	96/41	S	96/44	S	98/19	D		
10	SEJD	6136	98/13	S	98/15	S	98/26		98/31	L
11	SEJX	5747	96/36	L	97/16					
12	SEJ1	5772	96/47	L	97/05					
13	SEJ10	5746	96/34	L	97/08					
14	SEJ2	6007	97/04	L	97/22		98/10			
15	SEJ3	6027	97/16	L	97/24					
16	SEJ4	6031	97/02		97/18	L				
17	SEJ5	6050	97/31		97/35	L				
18	SEJ6	6052	97/27		97/34		97/40	L		
19	SEJ7	6067	97/48		97/56	L				
20	SEJ8	6105	93/32		93/34		97/45	97/49	97/52	98/10 L 98/28
21	SEJ9	6107	97/57		98/12	L				
22	SIE	4361	77/27	D						
23	SIEA	4436	77/53	S	78/08	D				
24	SIEX	4360	77/27	L	78/15					
25	SIE2	4374	77/29		77/33		77/38	L		
26	SIE4	4421	77/49		77/52		77/54	L		
27	SIE4.1	4427	77/57		78/02	L				
28	SIE5	4435	77/41		78/07	L				
29	SIE6	4447	78/09		78/15	L				
30	SIQ	5002	77/30		83/43	D				
31	SIQA	5024	84/03	D	95/07	S	95/10	S		
32	SIQB	5216	86/18	D	86/41	S	86/43	S		
33	SIQC	5232	84/42	S	84/44	S	86/28	D		
34	SIQD	5106	84/56	D	95/02	S				
35	SIQE	5054	83/48		83/49		83/50	S	84/28	L
36	SIQX	5001	83/43	L	84/10		84/43			
37	SIQ0	5007	83/44		83/48	L				
38	SIQ0.1	5011	83/46		83/50	L				
39	SIQ1	5022	84/01	L	84/09					
40	SIQ10	5247	86/37		86/40	L				
41	SIQ11	5256	86/39		86/44	L	86/53		87/12	
42	SIQ12	5260	86/40		86/51	L				
43	SIQ13	5263	86/11		86/54	L				
44	SIQ2	5030	84/08	L	84/15		84/34	84/57	85/41	86/44
45	SIQ3	5033	84/07		84/12	L				
46	SIQ3.0	5062	83/48		83/49		84/28	84/30	84/32	84/35 L
47	SIQ3.1	5101	84/37		84/51	L				
48	SIQ3.2	5114	85/03	L	85/12					
49	SIQ3.3	5125	85/05		85/10	L				
50	SIQ4	5131	84/54		85/09		85/15	L		
51	SIQ4.1	5153	85/29		85/31		85/33		85/35	L
52	SIQ5	5161	85/13		85/24		85/39	85/41	L	86/07 86/10
53	SIQ6	5163	85/40		85/45	L				
54	SIQ6.1	5171	85/47		85/52	L				

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SIQ7	5216	85/50	85/54	85/57	86/04	86/15 L		
SIQ8	5221	84/46	86/20 L					
SIQ9	5243	86/31	86/36 L					
THLD	6133	85/04	85/07	94/44 S	94/46 S	95/29	99/22 L	
THLDL	322	94/49	98/53 D	98/56	99/22			
TI00	6053	78/46	79/09	82/40	86/22 S	86/54	87/04 S	99/10 L
		79/07	82/37	86/20 S	86/24 S	87/02 S	87/06 S	
TI00L	20	77/32	79/16	82/40	86/20 S	87/04 S	98/56	
		78/46	82/32	83/51	86/24 S	87/06 S	99/10	
		79/09	82/37	84/38	86/54	98/52 D		
TJCT	6455	77/50	79/14 S	86/26 S	86/57 S	93/38 S	98/42	
		77/54	85/52	86/56 S	92/42	97/35 S	99/39 L	
TJCTL	23	98/51 D	98/56	99/39				
TTEND	6500	99/40 L	99/49					
.3	2274	100/01 D	100/04	100/05	100/07			
.4	2125	100/01 D	100/06					

SYMBOL QUALIFIER = COMPCPE

U	CET\$	58/37 F						
	CPR	4241	57/37 D	60/13				
	CPRA	4256	57/38 S	57/48 D				
	CPRB	4315	58/04 S	58/25 L				
	CPRC	4317	58/06 S	58/27 D				
	CPRD	4325	58/08 S	58/28	58/32 D			
	CPRX	4240	57/37 L	58/33				
	CPR0	4251	57/42	57/44 L				
	CPR1	4323	58/21	58/30 L				
	CPR2	4324	58/29	58/31 L				
	CPR3	4237	57/35 L	57/40	57/46			
U	IOQ\$	57/51 F						

1412THE



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