

TSKST1 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:57

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1 .TITLE TSKST1 -- Keyboard SET Command routines
2 .ENABL LC
3 .DSABL GBL
4 .CSECT TSKST1
5 000000
6
7 TSKST1:
8 ; TSKST1 is the portion of TSKMON that contains the code
9 ; to implement the SET command.
10 ;
11 ; Copyright 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989.
12 ; S&H Computer Systems, Inc.
13 ; Nashville, Tennessee
14 ;
15 ; Macro calls
16 ;
17 .MCALL .CSISPC, .TTOUTR, .SRESET
18 .MCALL .READW, .TTYIN, .TTYOUT, .PURGE
19 .MCALL .CSIGEN, .SAVEST, .REOPEN
20 .MCALL .GTLIN, .GTJM, .DATE, .SPFUN
21 .MCALL .PRINT, .CLOSE, .LOOKUP
22 .MCALL .WRITW, .ENTER, .EXIT
23 .MCALL .SERR, .HERR, .FPROT, .QVAL, .PVAL, .DSTAT
24 ;
25 ; Global definitions
26 ;
27 .GLOBL TSKST1, CMDHD, CMDOFF, KDOCIN, SKPSPC, UCLCMD
28 .GLOBL DORUN, CMDFRM, CMDDSN, STLGCN, DATTIM, PRGALL
29 .GLOBL DLCEMT, ALCDEV, CMDSHO, CMDSET, CMDWHO, CMDMEM, CMDUSE
30 ;
31 ; Global references
32 ;
33 .GLOBL LSW11, $PWKEY, SETCL, SETHST, DVFLAG, DX$NST, TM$MRS
34 .GLOBL SC$SUC, SC$WRN, SC$ERR, SC$SEV, SC$FTL, SC$UNC, SC$NON
35 .GLOBL SETPRC, SETTTY, STVRFY, STNOVR, PO$SYS, RCLREV, PA$FLG, PA$DTS
36 .GLOBL PA$GRC, PA$UKC, PA$DSC, PA$BLD, PA$ULN, PA$DWD, PA$HQL, PA$LET
37 .GLOBL EM$PTA, EM$PTU, SBPSUF, CHKCLU, EM$CLX, PA$BEL, EM$OPR, PA$NWD
38 .GLOBL SCNOPS, TM$XBK, CL$XLN, CKCLUS, ACRSTR, R50KMN, SJEMT, RJEMT
39 .GLOBL PEKEMT, PEKADR, PEKSIZ, TM$NNR, CDBUF, CDGET, TM$IN1, TM$IN2
40 .GLOBL SYPSWD, EM$SPL, ACRTXT, JPWDEV, JPWTYP, JPWFGL
41 .GLOBL EM$WC0, EM$WC1, EM$WC2, EM$WC3, EM$WCM, P2$CGR
42 .GLOBL CXTRMN, R$CHN, R$XCHN, CHNSIZ, C. USED, CL$EPN, CL$EPS, CLEOFS
43 .GLOBL EDMALD, EM$STL, EM$IST, CLSFEP, EM$IDR, VPRIDF, SETWRD
44 .GLOBL CLRPRV, OPTLST, PFSO, PFCO, PVNPW, PO$SPV, PRIVSO, PRVOPT
45 .GLOBL TM$PVA, TM$PVC, PRIVAO, EM$CNO, EM$CPO, EM$CAP, RSTPRV
46 .GLOBL CHKEQ, CKACOJ, PO$OPR, CKSYPV, P2$TRM, PRIVC2, PO$NAM, EM$NPR
47 .GLOBL INSTBL, INGADR, INGEMT, IIBUF, II$NAM, II$FLG, II$$SZ, EM$NAD
48 .GLOBL INSTBN, AF$SCA, AF$NOW, AF$MEM, PO$DBG, PRIVCO, PRVLST
49 .GLOBL ABRTAD, ABRTCD, CINFLQ, $VNOTT, II$PRV, II$NPV
50 .GLOBL TM$RD1, TM$RD2, TM$LCL, TM$GBL, SPACE1, RC$OWN, RC$CNT
51 .GLOBL RC$EXC, RC$AGE, RC$AEP, RC$USE, RC$FLG, RC$GBL, RC$NAM
52 .GLOBL RC$LEN, RC$PVT, RCBAS, RCBEND, RC$$SZ, SHRRCB, SHRRCN
53 .GLOBL LP$SPD, LP$PAR, LP$ODD, LP$7BT, EM$ICL, PROSLT, RC$LCG
54 .GLOBL EM$NPD, EM$ILN, EM$CIP, EM$NSF, EM$IUN, EM$CLN
55 .GLOBL EM$ILN, EM$ACL, EM$TSL, EM$CLB, EM$NSL, EM$SLT, EM$SLW
56 .GLOBL SLKDON, SLKDOF, EM$UIO, TM$PR1, TM$PR2, TM$LPR, TM$HPR
57 .GLOBL TM$HPE, TM$CNG, TM$CDS, TM$CEN, TRMHDI, TRMHD2, AT$DEV
      OPRTXT, CLLINE, LCLTXT, REMTXT, TM$AUT, CLFREE, CLUNIT
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58      . GLOBL TM$CLO, TM$CL1, TM$CL2, TM$CL3, TM$CL4, TM$CL5, TM$CL6
59      . GLOBL QHDM51, QHDM52, DVSHH1, DVSHH2, DVSHH3, SYASHD, DKASHD
60      . GLOBL TM$NAD, ALCHD1, ALCHD2, TM$NSD, TM$SDN, LNAME
61      . GLOBL CORUSR, LSW, $CTRL0, SERFLG, IDABFL, $CHACT, $STSNG
62      . GLOBL LSTHL, LCLUNT, FSTIOL, LSTIOL, CL$LIX, CW$PRO, CONFIG2
63      . GLOBL CL$RQH, CL$WQH, MAXALC, ALCTBL, ALCEND
64      . GLOBL AD$DVU, AD$JOB, AD$$SZ, UCIDEF, HANCHN
65      . GLOBL NEDCHR, LOUTIR, LINIR, LINRTS, CLOTIR
66      . GLOBL CO$DEF, CL$COL, LCDTYP, SOPALC, SOPDAT, SOPTIM
67      . GLOBL UTRPAD, JSWLLOC, ERRLOC, MAXMEM, MAXPRI
68      . GLOBL USRSTK, $KINIT, CFSTK, MXJMEM, DFJMEM, EM$HNI
69      . GLOBL SPUBUF, SXBPNT, MXJADR
70      . GLOBL TMTOTH, TMTOTL, TMUSRH, TMIOWH, LDMMT, EM$CSE
71      . GLOBL TMSWTH, TMIDLH, TMIOH, TMSWPH, LDCLEN
72      . GLOBL WILDFL, $NOIN, $NOWTT, $HITTY
73      . GLOBL TECO, EDIT, KED, K52, $1STLG, $DIBOL
74      . GLOBL SH$VAL, SH$NAM, SH$$SZ, SH$RTN, SH$FLG
75      . GLOBL SO$NVL, SO$OCT, SO$NO, HANENT, HANSIZ
76      . GLOBL H. CSR, H. VEC, DVSTAT, SFID, ACRSPD, HANPAR, LSTSPL
77      . GLOBL HAZEL, HAZLFL, HAZLNO, $MLOCK, MDT, GETKCH
78      . GLOBL LINBUF, LINNXT, LSTACT, PRGTOP, PRGSIZ, KMNH1
79      . GLOBL KMNTOP, KMNPGS, KMNSTK, KMNSTR, CXTPAG, FSTIOL
80      . GLOBL LINPNT, LINCNT, LACTIV, LRDTIM, CS$RON
81      . GLOBL LOTBUF, LOTNXT, LOTPNT, $VTESC
82      . GLOBL LOTSIZ, LOTSPC, LCOL, $SLKED, ESC, VDBFLG
83      . GLOBL LAFSIZ, LFWLIM, LINCUR, NUMON, ILSW2
84      . GLOBL $DBKMN
85      . GLOBL $CARUP, DOASGN, UKMNAM, $UKMON, LSW9
86      . GLOBL LSUCF, $CCLR, VLDSYS, EM$NUK, $SQMIO
87      . GLOBL KL3CLR, $PRGLK, LSW5, PVON, $SPND, $AUTO
88      . GLOBL S$TWFN, S$TTFN, S$OTFN, S$IOFN, S$OTLO
89      . GLOBL LSTDLS, FSTDL, $DETCH, UMSYTP, S$TTSC
90      . GLOBL $DISCN, LPROJ, LPROG, LUNAME, $RT, $LOW
91      . GLOBL LCPUHI, LCPULO, LCONTM, $CTRLS, $SPLJB, TXTCL
92      . GLOBL STPFLG, TOTON, USPLCH, SPLCHN, $HICP
93      . GLOBL S$INWT, S$OTWT, S$TMWT, S$SFWT, S$600
94      . GLOBL S$MSWT, CFBUF, CFEND, CCLSAV, KMNCNN
95      . GLOBL MINTIM, LSECPT, MAXSEC, $EMTTR, VCSHNB
96      . GLOBL OKFILE, OKFEND, $CLTST, UCISPC, MHNSIZ
97      . GLOBL CASTBR, CASCBR, CASTBW, CASCUP, MHNSMS
98      . GLOBL CASTRO, CASTWO, CLTOTL, CO$DTR, CLSFSP
99      . GLOBL CO$CR, CO$FF, CO$FF0, CO$LC, CO$TAB, CO$CTL
100     . GLOBL CO$LFI, CO$LFO, CO$BNI, CO$BNO, CL$OPT
101     . GLOBL CL$LEN, CL$SKP, CL$WID, CL$LIN, PHYMEM
102     . GLOBL LJSW, CTRLTT, NEWJSW, JSTKND, VIMAGE
103     . GLOBL USTART, GENTOP, BOTDEV, BOTUNI, CSHALC
104     . GLOBL $CTRLC, LSW2, $INKMN, CHAIN, UFORM
105     . GLOBL $SGQO, $SGQ3, LITIME
106     . GLOBL MAXASN, $CFABT, INSTA, INDERR
107     . GLOBL RUNDEV, LNBLKS, CXTBAS, CXTWDS, UHIMEM
108     . GLOBL $DILUP, CSHDEV, CSHDVN, LNSBLK
109     . GLOBL LSW3, LSW2S, $DUPRN
110     . GLOBL $FORM, $TAB, LSCCA, $CFSOT, LOFSPC, R50COM
111     . GLOBL $PAGE, $SCOPE, $ECHO, $LC, $8BIT, CHKALC
112     . GLOBL UCHAN, $FORMO, $CFALL, $CFDCC, $CFCC
113     . GLOBL LNPRIM, LNMAP, CW$50H, CONFIG, $SUCF
114     . GLOBL $DOOFF, NUICHN, LRBFL, CFIND, TALEMT

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115          . GLOBL C, CSW, C, DEVQ, C, SBLK, NLINES, CO$BBT
116          . GLOBL CD$NAM, CD$DVU, CD$BAS, CD$JOB, CD$$SZ, CD$$UB
117          . GLOBL LTSCMD, LNSPAC, CFNEST, UCLNAM
118          . GLOBL $CFOPN, CFSEND, PBFEND, CFSP, $TTGAG
119          . GLOBL UFPTRP, SDSFCB, SD$DEL, CFLFL4, $UCLCF
120          . GLOBL SDFLAG, SD$FLK, SD$WFM, SDFORM, $UCLRN
121          . GLOBL SDBUF1, SDBLK, NSPLDV, LD$RON, $UCLCM, $UCLCL
122          . GLOBL LDNAME, LDSIZE, LDFLAG, LDBASE, LDPDEV
123          . GLOBL LSW8, $SGQ1, $SGQ1A, $SGQ1B, $SGQ1C, $SGQ2, $SGIIO, $SGHIO
124          . GLOBL $DEFER, CFCHAN, SCHAIN, LDDEVX, $SGALL
125          . GLOBL CFPNT, CFBLK, $QUIET, DIABFL
126          . GLOBL DIABNO, VT52NO, LA36NO, LA36FL
127          . GLOBL LSW4, KL4CLR, SDSKIP, SDBU, SD$BAK
128          . GLOBL $INCOR, $KED, VQUN1B, VINTIO, VQUN1C
129          . GLOBL SF$BSY, SFFORM, SD$SNG, SFNMBL, NFRESB
130          . GLOBL SD$HLD, SF$HLD, CURPRM, PRMPNT, SF$1ST
131          . GLOBL LSTPRM, PRMBUF, PRMEND, CFSPND
132          . GLOBL SDFHD, SFFLAG, SFQLNK, CFHOLD, LOGDVU, LOGBAS
133          . GLOBL LCOL, $QTSET, $TECO, CD$TOP, LOGCHK
134          . GLOBL $WILD, ERRSEV, UERSEV, PASLIN, LOGBAS, LOGDVU
135          . GLOBL LSTPL, SDCB, SDCBND, VQUANO, VQUAN3
136          . GLOBL VQUAN1, VQUN1A, VQUAN2, VHIPCT, VQUANO, VQUAN3
137          . GLOBL DCTRD, DCCRD, DCTWR, DCCWR, ASNSRC
138          . GLOBL VCORTM, NUMDCD, VNUMDC, KMPRMT, MXPRMT
139          . GLOBL RDB, RDBEND, RT$NAM, RT$$SZ, CLDEVX, SDDVU
140          . GLOBL SDNAME, SDCBSZ, LSTSL, LSTATE
141          . GLOBL TK1VAL, CINDAT, SYSDAT, SYTIMH, SYTIML
142          . GLOBL BASMAP, LOMAP, HIMAP, JCXPGS
143          . GLOBL SMRSIZ, SRTSIZ, CSHSIZ, TK1SEC
144          . GLOBL TSXLN, TSXSIT, GRT1, TRGRET, LICTXT, SUPCOD, NAMTOP, SUMS, SUCS
145          . GLOBL LPRG1, LPRG2, S$QUSR, S$IOWT, S$SFWT
146          . GLOBL S$SPDB, S$SPCB, SFUSER, SFFILE, VT200, VT2007, VT2008
147          . GLOBL LCBIT, LA36, LA120, VT52, VT100, DIABLO, QUME
148          . GLOBL ADM3A, LTRMTP, LA12FL, LA12NO, VT52FL
149          . GLOBL VT10FL, VT10NO, QUMEFL, QUMENO, ADM3FL
150          . GLOBL VT20FL, VT20NO
151          . GLOBL ADM3NO, SYINDX, SYUNIT, NUMDEV, PNAME
152          . GLOBL OF$DEV, OF$UNT, OF$FIL, OF$FLG, SYNAME
153          . GLOBL OF$$SZ, OT$RON, RESDEV, $TAPE
154          . GLOBL KMNBAS, ODTBAS, $CTRLD
155          . GLOBL LSW6, $SNWTT, PF$SYS, PF$IOW, $DEBUG
156          . GLOBL RSR, TSR, LMXNUM, LSTMX, MXDTR, ZCLR, MXCSR
157          . GLOBL $INDDF, $INDRN, IN$ACT, IN$CNT, IN$CMD, INDSAV
158          . GLOBL $PHONE, INVEC, LMXLN, MXVEC, $INIT, $DEAD, $HARD
159          . GLOBL ITRMTP, LMXPRM, LSW7, $INDAB, CFSTS, CF$IND, CF$QUT
160          . GLOBL CFABLV, MONVEC, LBSPRI, MAXPRI, MXJPRI, LPRI, $SYSPS
161          . GLOBL LOGCHN, LOGFLG, LOGPTR, LOGBUF, LOGBLK, LF$IN, LF$OUT
162          . GLOBL LF$OPN, LF$WRT, UCLBLK, UCLDAT
163          . GLOBL CSHHD, FC$CDX, FC$LNK, FD$NAM, UC$NDC, UC$MDC, CVTUC
164          . GLOBL CMDBUF, PAUMSG, RDCMD, DKSAV, SYS4V, CVTTAB, RUNHD, SEARCH
165          . GLOBL INVOPT, FKILL, ABRTCF, ACRFN, XAREA, FILNAM, NOPRG, FPRINT
166          . GLOBL PUSHCF, TRMSTR, FILNAM, R50DIR, R50SY, R50IND, R50SAV
167          . GLOBL INDACT, R50DUP, R50PIP, R50KED, R50K52, R50KEX, R50TSX, R50UCL
168          . GLOBL BLKO, RDERM, R50VIR, NOSTRT, RUNEMT, OVRCOR
169          . GLOBL BADSAV, LDNAM, NOPRG, NOCIN, SIZVAL, ASKLM, BADCMD, KCSIBF
170          . GLOBL ASDEX, KCSIMS, ASN0VF, GTRD50, R50BUF, R50LDO, MNTDEV, DMTARG
171          . GLOBL DEADEV, CHKMNT, CHKMTX, INFOMT, NOFLAG, MTOPHD, INVOPT, ILLCMD

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172 . GLOBL R50LD, INVLDN, R50DSK, ACRFIL, BDFNAM, LOGASN, MNTFUL, R50LD7
173 . GLOBL TBLOVF, SETHD, CSIMS2, CKPRIV, R50ND, AMBOPT, ACRDEC
174 . GLOBL MAXAVL, PRTDEC, DEVUNT, PNAME, HNBUF, CKTERM
175 . GLOBL ACROCT, HANBSY, CSIMS1, MISSEQ, NOIND, POPCF
176 . GLOBL BADPMT, BADPRI, TOTXT, CRLF, HIPRI, STLGHHD, LOGCLS, R50LOG
177 . GLOBL BDLGOP, SPLHLA, NOCCL, LDOPHD, PRTFIX, PRTSPC
178 . GLOBL DLTXT, OCTFIX, PRTTTP, NATXT, SPDTX1, NOTXT, YESTXT, NINTXT
179 . GLOBL PRTUNM, SYHD1, SYHD2, PRTLH, SPACE2, DETTXT, SPACE3, RNMS
180 . GLOBL SWPTX, LOCKTX, SPACE5, PRTDC3, KBMSG, DIVIDE, PRTDC2
181 . GLOBL COLOO, CPUAH, CPUAL, PRTTMV, NOFIL, CMDBUF, CALUCL
182 . GLOBL NOUDC, DEVHD1, ASNHD1, ASNHD2, SHMTH1, SHMTH2, PRTTMD
183 . GLOBL CVDVNM, SPACE6, PRTBUF, PRTFNM, NONEMS, NODAT, NOLDMT
184 . GLOBL SUBARO, EDTFIL, RONTXT, NOTAVL, KBTX, MNFLGS, MNBP
185 . GLOBL DELSPC, MNBASE, MNTOP, MONHD, MONAR1, NOPMGN, PMBUSY, MONAR2
186 . GLOBL NSWPM, MAXMTX, CURMTX, CHKDLM, SPLHD, AMBOPT, INOPT
187 . GLOBL DEVIDL, COAL, ALDEX, COAD, SPACTV, SPWFM, DEVIDL, SPSNG
188 . GLOBL COAL, ALDEX, ALDBLK, COAD, SPACTV, SPWFM, DEVIDL
189 . GLOBL SPSNG, SPFUL, SPCF, SPFLK, NOFIL, SPGEMT, NOOPTT
190 . GLOBL BDLIN, MSGBUF, MSGEND, NOTON, GAGMSG
191 . GLOBL LINFR, DJABMS, DLMSG, INVIM, DMTALL
192 . GLOBL SHTMSG, AUTHFN, SPLACT, DOSTOP, OFFEMT, KILEMT, UPTMMS
193 . GLOBL TMTOTH, DIVSOR, TMTOTL, PRTPCT, SUM1, SUM2, SUM3, SUM4
194 . GLOBL SUM5, SUM6, SUM7, OTHON, SPLPN, STPASK, SRTSMS, CHKTTD
195 . GLOBL SIZEMT, ASNOVF, INVLDN, CSIMS4, MNTARG, HUPARG, R50TT
196 . GLOBL KMNNAM, NOKMON, CCLNAM, OTRMNT, CHKDEV, DMTSUB, CMDCC
197 . GLOBL SHOHD, SUBTXT, MNTTXT, SRTTXT, TOTMMS, UMSSMS, SSRMAP
198 . GLOBL TSXSMS, USRMMS, JCXSMS, DZTXT, OCTPRT
199 . GLOBL PRTR50, PRTDAT, PRTTOD, PRTTIM, INVDEV, ALFN, R50DK
200 . GLOBL DETHD, DETARG, RUNMS, NOFRDL, R50MON, INVDAT, MUL32, COAF
201 . GLOBL AR\$PRJ, AR\$PRG, AR\$CON, AR\$CNT, AR\$CPH, AR\$CPL, AR\$UNM
202 . GLOBL AR\$DMY, AR\$\$SZ, ARNRPB, \$SLON, \$SLTTY, \$SLLET
203 . GLOBL PRTWRN, SLMXLN, VSLEDT, \$LOFCF, CSHMSG
204 . GLOBL AF\$HIE, AF\$NO1, \$NOINT, AF\$PLK, AF\$DBG, DS\$DIR
205 . GLOBL AF\$IOP, \$RNIOP, VOFFTM, VONTM, VTMOUT, VTMIN, VTMLOC, VUSPHN

```
1 ;  
2 ; Assembly constants  
3 ;  
4 000012 LF = 12 ;LINE FEED  
5 000015 CR = 15 ;CARRIAGE RETURN  
6 000040 BLANK = 40 ;ASCII SPACE  
7 000007 BELL = 07 ;ASCII BELL  
8 000011 TAB = 11 ;HORIZONTAL TAB  
9 000014 FF = 14 ;FORM FEED  
10 000054 COMMA = 54 ;COMMA  
11 000400 BLKWDS = 256 ;# OF WORDS IN DISK BLOCK  
12 132500 WLDNAM = 132500 ;RAD50 /* (WILDCARD)
```

```
1 ;-----  
2 ; Macro to cause a fatal error message to be printed.  
3 ;  
4 .MACRO FERR MSG  
5 MOV R5,-(SP)  
6 MOV MSG,R5  
7 CALL FPRINT  
8 MOV (SP)+,R5  
9 .ENDM FERR  
10;  
11;  
12 ; Macro to print a fatal error message, clean up  
13 ; and then jump to RDCMD.  
14 ;  
15 .MACRO FABORT MSG  
16 MOV MSG,R5  
17 JMP FKILL  
18 .ENDM FABORT  
19;  
20;  
21 ; Macro to print a warning message  
22 ;  
23 .MACRO FWARN MSG  
24 MOV R5,-(SP)  
25 MOV MSG,R5  
26 CALL PRTWRN  
27 MOV (SP)+,R5  
28 .ENDM FWARN  
29;  
30;  
31 ; Macro to start a standard option table.  
32 ; Name = 1 to 4 character table name.  
33 ; NA = Number of arguments per table entry.  
34 ;  
35 .MACRO TBLDEF NAME,NA  
36 NARGS = NA  
37 .CSECT CMDVSI  
38 NAME'HD: .WORD 2*NA  
39 .ENDM TBLDEF  
40;  
41;  
42 ; Macro to enter an option text name and a set of parameters  
43 ; into the currently open table.  
44 ; STRNG = Ascii name  
45 ; A, B, C = Set of option parameters to store in table with name.  
46 ;  
47 .MACRO CMDDEF STRNG,A,B,C  
48 .CSECT NAMESI  
49 L =  
50 .ASCIZ /STRNG/  
51 .CSECT CMDVSI  
52 .WORD L ; POINTER TO NAME STRING  
53 .WORD A  
54 .IIF GE,<NARGS-2> .WORD B  
55 .IIF GE,<NARGS-3> .WORD C  
56 .ENDM CMDDEF  
57;
```

```
58 ; -----  
59 ; Macro to end a set of table entries.  
60 ;  
61 .MACRO TBLEND  
62 .CSECT CMDV$1  
63 .WORD 0  
64 .CSECT TSKST1  
65 .ENDM TBLEND
```

```
1 ;-----  
2 ; Define options for the SET command.  
3 ;  
4 ; Table of "device" names for the SET command and a  
5 ; pointer to a set of sub-options for the device.  
6 ;  
7 ;  
8 000000 TBLDEF SET,3  
9 000002 CMDDEF CA*CHE, STCHNB, O, O  
10 000012 CMDDEF CC*L, SETSUB, CCLHD, O  
11 000022 CMDDEF CO*RTIM, SETSVL, VCORTM, 10000.  
12 000032 CMDDEF CTRLD, SETSUB, CTDHD, O  
13 000042 CMDDEF ED*IT, SETSUB, EDITHD, O  
14 000052 CMDDEF EM*T, SETSUB, EMTHD, O  
15 000062 CMDDEF ENDS*TARTUP, SETESU, O, O  
16 000072 CMDDEF ER*ROR, SETSUB, ERRHD, O  
17 000102 CMDDEF EX*IT, RDCMD, O, O  
18 000112 CMDDEF HIP*RCT, SETSVL, VHIPCT, 10000.  
19 000122 CMDDEF HO*ST, SETHST, O, O  
20 000132 CMDDEF IND, SETSUB, INDHD, O  
21 000142 CMDDEF INT*IOC, SETSVL, VINTIO, 10000.  
22 000152 CMDDEF IO*ABORT, SETPRV, IOABHD, O  
23 000162 CMDDEF KMO*N, SETSUB, KMONHD, O  
24 000172 CMDDEF LAN*UAGE, SETSUB, LANGHD, O  
25 000202 CMDDEF LOG, SETLOG, O, O  
26 000212 CMDDEF LOGO*FF, SETLOF, O, O  
27 000222 CMDDEF MAX*PRIORITY, SETMPR, O, O  
28 000232 CMDDEF NUM*DC, SETNDC, NUMDCD, O  
29 000242 CMDDEF OFF*TIM, SETSVL, VOFFTM, 10000.  
30 000252 CMDDEF ONT*IM, SETSVL, VONTM, 10000.  
31 000262 CMDDEF PHO*NE, SETSVB, VUSPHN, 1  
32 000272 CMDDEF PROC*ESS, SETPRC, O, O  
33 000302 CMDDEF PROM*PT, SETPRT, O, O  
34 000312 CMDDEF PRI*ORITY, SETPRI, O, O  
35 000322 CMDDEF PRINTS*CREEN, SETPRS, O, O  
36 000332 CMDDEF PRINTW*INDOW, SETPRS, O, O  
37 000342 CMDDEF QUANO, SETSVL, VQUANO, 10000.  
38 000352 CMDDEF QUAN1, SETSVL, VQUAN1, 10000.  
39 000362 CMDDEF QUAN1A, SETSVL, VQUAN1A, 10000.  
40 000372 CMDDEF QUAN1B, SETSVL, VQUAN1B, 10000.  
41 000402 CMDDEF QUAN1C, SETSVL, VQUAN1C, 10000.  
42 000412 CMDDEF QUAN2, SETSVL, VQUAN2, 10000.  
43 000422 CMDDEF QUAN3, SETSVL, VQUAN3, 10000.  
44 000432 CMDDEF REC*ALL, SETREC, O, O  
45 000442 CMDDEF SHUT*DOWN, SETSHT, O, O  
46 000452 CMDDEF NOSHUT*DOWN, SETNSH, O, O  
47 000462 CMDDEF SIG*NAL, SETSUB, SIGHD, O  
48 000472 CMDDEF SL, SETSL, O, O  
49 000502 CMDDEF SUB*PROCESS, SETSBP, O, O  
50 000512 CMDDEF SYSP*ASSWORD, SETSYP, O, O  
51 000522 CMDDEF SYSP*WD, SETSYP, O, O  
52 000532 CMDDEF TE*RMINAL, SETTTY, O, O  
53 000542 CMDDEF TT*Y, SETTTY, O, O  
54 000552 CMDDEF TIMI*N, SETSVL, VTMIN, 10000.  
55 000562 CMDDEF TIML*OC, SETSVL, VTMLOC, 10000.  
56 000572 CMDDEF TIMO*UT, SETSVL, VTMOUT, 10000.  
57 000602 CMDDEF UC*L, SETSUB, UCLHD, O
```

58 000612	CMDDEF US*R, RDCMD, O, O
59 000622	CMDDEF VER*IFY, STVRFY, O, O
60 000632	CMDDEF NOVER*IFY, STNOVR, O, O
61 000642	CMDDEF WI*LDCARDS, SETSUB, WILDHD, O
62 000652	CMDDEF WIN*DOWS, SETWIN, O, O
63 000662	CMDDEF WINP*RT, SETPRS, O, O
64 000672	TBLEND

```
1 ; Define options for SET EDIT command
2
3 ; TBLDEF EDIT,3
4 000000 CMDDEF ED*IT, SEEDIT, 0
5 000676 CMDDEF KED, SEKED, 0
6 000706 CMDDEF K52, SEK52, 0
7 000716 CMDDEF T*ECO, SETECO, 0
8 000726
9 000736 TBLEND

10 ; Define options for SET ERROR command
11
12 ; TBLDEF ERR,2
13 000000 CMDDEF W*ARNING, SETSEV, SC$WRN
14 000742 CMDDEF E*RROR, SETSEV, SC$ERR
15 000750 CMDDEF S*EVERE, SETSEV, SC$SEV
16 000756 CMDDEF F*ATAL, SETSEV, SC$FTL
17 000764 CMDDEF U*NCONDITIONAL, SETSEV, SC$UNC
18 000772 CMDDEF N*ONE, SETSEV, SC$NON
19 001000
20 001006 TBLEND

21 ; Define options for SET WILDCARDS command
22
23 ; TBLDEF WILD,3
24 000000 CMDDEF IM*PLICIT, SETBIT, LSW5, $WILD
25 001012 CMDDEF EX*PLICIT, CLRBIT, LSW5, $WILD
26 001022
27 001032 TBLEND

28 ; Define options for the SET KMON command
29
30 ; TBLDEF KMON,3
31 000000 CMDDEF IND, SETIND, LSW5, $INDDF
32 001036 CMDDEF NOI*ND, RSTIND, LSW5, $INDDF
33 001046 CMDDEF SY*STEM, CLRBIT, LSW7, $UKMON
34 001056 CMDDEF UCI, SETUKM, 0, 0
35 001066 CMDDEF USE*R, SETUKM, 0, 0
36 001076 CMDDEF NEW, SETKNW, 0, 0
37 001106 CMDDEF DEBUG, SETBIT, LSW9, $DBKMN
38 001116 CMDDEF NODEBUG, CLRBIT, LSW9, $DBKMN
39 001126
40 001136 TBLEND

41 ; Define options for the SET CCL command
42
43 ; TBLDEF CCL,3
44 000000 CMDDEF T*EST, SETBIT, LSW5, $CLTST
45 001142 CMDDEF NOT*EST, CLRBIT, LSW5, $CLTST
46 001152 CMDDEF NEW, SETCNW, 0, 0
47 001162
48 001172 TBLEND

49 ; Define options for the SET UCL command
50
51 ; TBLDEF UCL,3
52 000000 CMDDEF F*IRST, STUCLF, LSW7, $UCLCF
53 001176 CMDDEF M*IODEL, STUCLM, LSW7, $UCLCM
54 001206 CMDDEF L*AST, STUCLL, LSW7, $UCLCL
55 001216 CMDDEF N*ONE, STUCLN, LSW7, 0
56 001226
57 001236 TBLEND
```

```
58 ; Define options for the SET IND command
59 ;
60 ;
61 000000 TBLDEF IND,3
62 001242 CMDDEF AB*ORT, SETBIT, LSW7, $INDAB
63 001252 CMDDEF NOA*BORT, CLRBIT, LSW7, $INDAB
64 001262 TBLEND
65 ;
66 ; Define options for the SET LD command
67 ;
68 000000 TBLDEF LDOP,1
69 001266 CMDDEF CL*EAN, SLDCLN
70 001272 CMDDEF EMP*TY, SLDENP
71 001276 CMDDEF FR*EE, SLDFRE
72 001302 CMDDEF WR*ITE, SLDWRT
73 001306 CMDDEF NOWR*ITE, SLDNWR
74 001312 TBLEND
75 ;
76 ; Define options for the SET SL command
77 ;
78 000000 TBLDEF SLE,1
79 001316 CMDDEF AS*K, SLONOP
80 001322 CMDDEF KED, SLOKED
81 001326 CMDDEF K52, SLOKED
82 001332 CMDDEF KEX, SLOKED
83 001336 CMDDEF NOKED, SLORT
84 001342 CMDDEF LEA*RN, SLOUNI
85 001346 CMDDEF NOLEA*RN, SLONOP
86 001352 CMDDEF LET, SLOLET
87 001356 CMDDEF NOLET, SLONLT
88 001362 CMDDEF OF*F, SLOOFF
89 001366 CMDDEF ON, SLOON
90 001372 CMDDEF KM*ON, SLOON
91 001376 CMDDEF RT*11, SLORT
92 001402 CMDDEF SUB*STITUTE, SLOLET
93 001406 CMDDEF NOSUB*STITUTE, SLONLT
94 001412 CMDDEF SYS*GEN, SLONOP
95 001416 CMDDEF TT*YIN, SLOTTY
96 001422 CMDDEF NOTT*YIN, SLONTT
97 001426 CMDDEF WID*TH, SLOWID
98 001432 CMDDEF REC*ALL, SLONOP
99 001436 CMDDEF NOREC*ALL, SLONOP
100 001442 TBLEND
101 ;
102 ; Define options for the SET RECALL
103 ;
104 000000 TBLDEF RCL,1
105 001446 CMDDEF N*ORMAL,0
106 001452 CMDDEF R*EVERSE,1
107 001456 TBLEND
108 ;
109 ; Define options for the SET WINDOW command
110 ;
111 000000 TBLDEF WIN,2
112 001462 CMDDEF COL*UMNS, WINCOL,0
113 001470 CMDDEF DA*RK, WINBIT, WFNORM
114 001476 CMDDEF DEL*ETE, WINBIT, WFDEL
```

```

115 001504      CMDDEF  LI*GHT, WINBIT, WFREV
116 001512      CMDDEF  NAR*ROW, WINBIT, WF80
117 001520      CMDDEF  NOR*MAL, WINBIT, WFNORM
118 001526      CMDDEF  OFF, WINBIT, WFDEL
119 001534      CMDDEF  ON, WINBIT, O
120 001542      CMDDEF  REV*ERSE, WINBIT, WFREV
121 001550      CMDDEF  SCR*OLL, WINSKR, O
122 001556      CMDDEF  NOSCR*OLL, WINNOS
123 001564      CMDDEF  WI*DE, WINBIT, WF132
124 001572      TBLEND
125
126          ; Define options for the SET PRINTWINDOW command
127
128 000000      TBLDEF  PRS, 1
129 001576      CMDDEF  BEL*L, PRSBEL
130 001602      CMDDEF  NOBEL*L, PRSNBL
131 001606      CMDDEF  DEV*ICE, PRSDEV
132 001612      CMDDEF  DR*AFT, PRSDRF
133 001616      CMDDEF  FL*AG, PRSFLG
134 001622      CMDDEF  NOFL*AG, PRSNFL
135 001626      CMDDEF  KEY*PRINT, PRSKEY
136 001632      CMDDEF  NOKEY*PRINT, PRSNKY
137 001636      CMDDEF  LET*TERQUALITY, PRSLET
138 001642      CMDDEF  ST*AMP, PRSSTM
139 001646      CMDDEF  NOST*AMP, PRSNST
140 001652      CMDDEF  TY*PE, PRSTYP
141 001656      CMDDEF  WID*TH, PRSWID
142 001662      CMDDEF  NOWID*TH, PRSNWD
143 001666      TBLEND
144
145          ; Printer types for SET PRINTWINDOW/TYPE=type
146
147 000000      TBLDEF  PWT, 2
148 001672      CMDDEF  AS*CII, O, O
149 001700      CMDDEF  FOR*EIGN, O, O
150 001706      CMDDEF  PRINT*RONIX, O, O
151 001714      CMDDEF  SIM*PLE, O, O
152 001722      CMDDEF  ST*ANDARD, O, O
153 001730      CMDDEF  LA36, O, O
154 001736      CMDDEF  LA120, O, O
155 001744      CMDDEF  LA100, 1, PA$GRC!PA$UKC!PA$ULN!PA$HQL!PA$DWD
156 001752      CMDDEF  LA12, 1, PA$GRC!PA$UKC!PA$BLD!PA$ULN!PA$HQL!PA$DWD
157 001760      CMDDEF  LA50, 1, PA$GRC!PA$UKC!PA$DSC!PA$BLD!PA$ULN!PA$HQL!PA$DWD
158 001766      CMDDEF  LA210, 1, PA$GRC!PA$UKC!PA$DSC!PA$BLD!PA$ULN!PA$HQL!PA$DWD
159 001774      CMDDEF  LQPO2, 1, PA$BLD!PA$ULN
160 002002      CMDDEF  LQPO3, 1, PA$BLD!PA$ULN
161 002010      CMDDEF  LN03, 1, PA$GRC!PA$BLD!PA$ULN!PA$DWD
162 002016      TBLEND
163
164          ; Define options for the SET LANGUAGE command
165
166 000000      TBLDEF  LANG, 3
167 002022      CMDDEF  DI*BOL, SETBIT, LSW6, $DIBOL
168 002032      CMDDEF  DBL, CLRBIT, LSW6, $DIBOL
169 002042      TBLEND
170
171          ; Define options for the SET EMT command

```

```
172 ;  
173 000000 TBLDEF EMT, 3  
174 002046 CMDDEF TR*ACE, SETEMT, LSW6, $EMTTR  
175 002056 CMDDEF NOTR*ACE, CLRBIT, LSW6, $EMTTR  
176 002066 TBLEND  
177 ;  
178 ; Define options for the SET IOABORT command  
179 ;  
180 000000 TBLDEF IOAB, 3  
181 002072 CMDDEF AB*ORT, STRWRD, IOABFL, 1  
182 002102 CMDDEF NOAB*ORT, STRWRD, IOABFL, 0  
183 002112 TBLEND  
184 ;  
185 ; Define options for the SET SIGNAL command  
186 ;  
187 000000 TBLDEF SIG, 3  
188 002116 CMDDEF H*IPRCT, SETBIT, LSW8, $SGHIO  
189 002126 CMDDEF NOH*IPRCT, CLRBIT, LSW8, $SGHIO  
190 002136 CMDDEF I*NTIOC, SETBIT, LSW8, $SGIIO  
191 002146 CMDDEF NOI*NTIOC, CLRBIT, LSW8, $SGIIO  
192 002156 CMDDEF QUANO, SETBIT, LSW8, $SGQO  
193 002166 CMDDEF NOQUANO, CLRBIT, LSW8, $SGQO  
194 002176 CMDDEF QUAN1, SETBIT, LSW8, $SGQ1  
195 002206 CMDDEF NOQUAN1, CLRBIT, LSW8, $SGQ1  
196 002216 CMDDEF QUAN1A, SETBIT, LSW8, $SGQ1A  
197 002226 CMDDEF NOQUAN1A, CLRBIT, LSW8, $SGQ1A  
198 002236 CMDDEF QUAN1B, SETBIT, LSW8, $SGQ1B  
199 002246 CMDDEF NOQUAN1B, CLRBIT, LSW8, $SGQ1B  
200 002256 CMDDEF QUAN1C, SETBIT, LSW8, $SGQ1C  
201 002266 CMDDEF NOQUAN1C, CLRBIT, LSW8, $SGQ1C  
202 002276 CMDDEF QUAN2, SETBIT, LSW8, $SGQ2  
203 002306 CMDDEF NOQUAN2, CLRBIT, LSW8, $SGQ2  
204 002316 CMDDEF QUAN3, SETBIT, LSW8, $SGQ3  
205 002326 CMDDEF NOQUAN3, CLRBIT, LSW8, $SGQ3  
206 002336 CMDDEF OFF, CLRBIT, LSW8, $SGALL  
207 002346 TBLEND  
208 ;  
209 ; Define options for the SET LOG command  
210 ;  
211 000000 TBLDEF STLG, 1  
212 002352 CMDDEF A*LL, STLGAL  
213 002356 CMDDEF CLE*AN, STLGON  
214 002362 CMDDEF CLO*SED, STLGCL  
215 002366 CMDDEF FI*LE, STLGFL  
216 002372 CMDDEF I*NPUT, STLGIN  
217 002376 CMDDEF O*UTPUT, STLGOT  
218 002402 CMDDEF WR*IITE, STLGWR  
219 002406 CMDDEF NOWR*IITE, STLGNW  
220 002412 TBLEND  
221 ;  
222 ; Define options for the SET LOGOFF command  
223 ;  
224 000000 TBLDEF STLO, 1  
225 002416 CMDDEF FI*LE, STLOFL  
226 002422 TBLEND  
227 ;  
228 ; Define options for the SET SUBPROCESS command
```

```
229
230 000000
231 002426      TBLDEF SBP, 1
232 002432      CMDDEF FI*LE, SBPFIL
233
234      ; Define options for the SET CTRLD command
235
236 000000      TBLDEF CTD, 1
237 002436      CMDDEF D*EBUG, STCDON
238 002442      CMDDEF NOD*EBUG, STCDOF
239 002446      TBLEND
```

```

1 ; -----
2 ; Data areas
3 ;
4 000000 HANSAV: .BLKW 5 ; Space for .SAVESTATUS
5 000012 012276 R50CLO: .RAD50 /CLO/
6 000014 013666 R50C10: .RAD50 /C10/
7 000016 000000 WINFLG: .WORD 0
8 ;
9 ; Flags stored in WINFLG
10 ;
11 000001 WFDEL = 1 ; Delete the window
12 000002 WFRREV = 2 ; Put terminal in reverse video
13 000004 WFNORM = 4 ; Put terminal in normal video mode
14 000010 WF132 = 10 ; Put terminal in 132 column mode
15 000020 WF80 = 20 ; Put terminal in 80 column mode
16 ;
17 ; Terminal control sequences
18 ;
19 000020 033 133 077 TCREV: .ASCII <33>/[?5h/<200> ; Select reverse video display
20 000023 065 150 200
21 000026 033 133 077 TCNORM: .ASCII <33>/[?51h/<200> ; Select normal video display
22 000031 065 154 200
23 000034 033 133 077 TC132: .ASCII <33>/[?3h/<200> ; Select 132 column mode
24 000037 063 150 200
25 000042 033 133 077 TC80: .ASCII <33>/[?31h/<200> ; Select 80 column mode
26 000045 063 154 200
27 000050 000 154 .EVEN
28 000052 000000
29 000054 000000 LSPEMT: .BYTE 0, 154
30 ; .WORD 0 ; Line number
31 ; .WORD 0 ; Speed code
32 ;
33 000056 000 126 DCHNEW: .BYTE 0, 126
34 000060 000006
35 ;
36 ; Emt to set job priority
37 ;
38 000062 000 150 PRIEMT: .BYTE 0, 150
39 000064 000000
40 ;
41 ; Emt to create window # 1
42 ;
43 000066 000 161 WINMAK: .BYTE 0, 161
44 000070 001 001
45 000072 120 020
46 000074 000000 000000
47 ;
48 ; Emt to map to window # 1
49 ;
50 000100 001 161 WINMAP: .BYTE 1, 161
51 000102 001 000
52 ;
53 ; Emt to delete window # 1

```

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54
55 000104 002 161 ; WINDEL: .BYTE 2,161
56 000106 001 000 .BYTE 1,0
57 ;
58 ; Emt to dismount all LD's
59 ;
60 000110 005 135 DMTALD: .BYTE 5,135
61 000112 000000 .WORD 0

```
1 .SBTTL SET command
2 ; -----
3 ; Process the "SET" command.
4 ;
5 000114 004767 000000G CMDSET: CALL CVTTAB ; CONVERT TAB AND FF CHARS TO SPACES
6 000120 004767 000000G CALL SKPSPC ; Skip up to start of device name
7 000124 010305 MOV R3,R5 ; SAVE COMMAND STRING POINTER
8 000126 105067 000000G CLRB NOFLAG ; ASSUME "NO" OPTION NOT SEEN YET
9 ;
10 ; If device name ends with a colon (e.g., "TT:") replace the colon
11 ; with a space.
12 ;
13 000132 112300 000040 7$: MOVB (R3)+,R0 ; Get next char of device name
14 000134 120027 000040 CMPB R0,#40 ; Reached end of name?
15 000140 101410 BLOS 8$ ; Br if yes
16 000142 120027 000057 CMPB R0,#11 ; Start of qualifiers?
17 000146 001405 BEQ 8$ ; Br if yes
18 000150 120027 000072 CMPB R0,#': ; Is this character colon?
19 000154 001366 BNE 7$ ; Br if not
20 000156 112743 000040 MOVB #40,-(R3) ; Replace colon with space
21 000162 010503 B$: MOV R5,R3 ; Get back pointer to start of device name
22 ;
23 ; Look up device name and see if we recognize it as a pseudo-device
24 ; such as TT, WILDCARD, etc.
25 ;
26 000164 012704 000000' MOV #SETHD,R4 ; GET TABLE OF PSEUDO-DEVICE NAMES
27 000170 004767 000000G CALL SEARCH ; SEARCH FOR DEVICE NAME
28 000174 103401 BCS 1$ ; BR IF NOT A PSEUDO-DEVICE NAME
29 ;
30 ; This is a pseudo-device name.
31 ; Jump off to appropriate processing routine.
32 ;
33 000176 000134 JMP @(R4)+ ; JUMP OFF TO PROCESSING ROUTINE
34 ;
35 ; Device name is not recognized as a pseudo device.
36 ; Apply any logical device assignment to the device name.
37 ;
38 000200 010503 1$: MOV R5,R3 ; POINT BACK TO DEVICE NAME
39 000202 005067 000002G CLR R50BUF+2 ; CLEAR 2ND WORD OF RAD50 NAME
40 000206 004767 000000G CALL GTRD50 ; ACCRUE RAD50 VALUE
41 000212 016700 000000G MOV R50BUF,R0 ; GET DEVICE NAME
42 000216 005767 000002G TST R50BUF+2 ; MAKE SURE NAME ONLY 3 CHARS LONG
43 000222 001404 BEQ 2$ ; BR IF OK
44 000224 FABORT #CSIMS2 ; INVALID DEVICE FOR SET
45 000234 004767 000000G 2$: CALL ASNSRC ; Search for device name in assign table
46 000240 103404 BCS 6$ ; Br if name was not assigned
47 000242 016200 000000G MOV AT$DEV(R2),R0 ; Get the physical device name
48 000246 010067 000000G MOV R0,R50BUF ; Set new device name for SET
49 ;
50 ; See if this is a SET LDn command
51 ;
52 000252 020067 000000G 6$: CMP R0,R50LD ; SEE IF IT IS LD
53 000256 103410 BLO 3$ ; Br if not
54 000260 020067 000000G CMP R0,R50LD7 ; CHECK HIGH RANGE
55 000264 101005 BHI 3$ ; Br if not an LD UNIT
56 000266 105767 000000G TSTB VLDSYS ; IS LD SUPPORT GENNED IN?
57 000272 001416 BEQ 5$ ; Br if not, maybe using an actual LD.TSX
```

```
58 000274 000167 005560           JMP      SETLD          ; GO PROCESS SET LD COMMAND
59
60           ; See if this is a SET CLn command
61           ; Note, that CL unit allocation is now checked only for some SET commands.
62
63 000300 005727 000000G       3$:    TST      #CLTOTAL     ; Are there any CL lines?
64 000304 001411               BEQ      5$             ; Br if not
65 000306 004767 000000G       CALL     CHKCLU        ; See if this is a CL or C1 unit (unit # to R0)
66 000312 103003               BCC      4$             ; BR if it is a valid CL or C1 unit
67 000314 016700 000000G       MOV      R50BUF,R0     ; If not, we need to get back RAD50 device name
68 000320 000403               BR      5$             ; Try it as a "real" device
69 000322 010002               4$:    MOV      R0,R2         ; Pass CL unit number in R2
70 000324 000167 000000G       JMP      SETCL        ; Process SET CL command
71
72           ; See if this device is allocated to another user before trying
73           ; to perform handler set code.
74
75 000330 004767 000000G       5$:    CALL     CHKALC        ; Check for allocation conflict
76 000334 000167 000470       JMP      SETDEV
```

```
1 ;-----  
2 ; Process SET commands that have sub-options  
3 ;  
4 ; Inputs:  
5 ; R3 = Pointer to start of qualifier in command line.  
6 ; R4 = Points to start of command table built with TBLDEF... TBLEND macros.  
7 ;  
8 ; Outputs:  
9 ; R3 = Pointer beyond end of qualifier.  
10 ; R4 = Pointer to argument value word in command table.  
11 ;  
12 ; See if set option is preceded by "NO".  
13 ;  
14 000340 004767 000000G SETPRV: CALL CKSYPV ;Must have SYSPRV privilege  
15 000344 010246 SETSUB: MOV R2,-(SP)  
16 000346 010546 MOV R5,-(SP)  
17 000350 122327 000072 CMPB (R3)+, #'': ;WAS DEVICE NAME FOLLOWED BY COLON?  
18 000354 001401 BEQ 3$ ;BR IF YES  
19 000356 005303 DEC R3 ;RESET POINTER IF NOT  
20 000360 004767 000000G 3$: CALL SKPSPC ;SKIP OVER SPACES  
21 000364 111300 MOVB (R3), R0 ;Get next character from command  
22 000366 120027 000075 CMPB R0, #'=' ;Is there an equal sign?  
23 000372 001403 BEQ 5$ ;Br if yes -- skip over equal sign  
24 000374 120027 000072 CMPB R0, #'': ;Colon separator?  
25 000400 001001 BNE 6$ ;Br if not  
26 000402 005203 5$: INC R3 ;Skip over separator  
27 000404 010302 6$: MOV R3, R2 ;SAVE COMMAND STRING POINTER  
28 000406 004767 000000G CALL GTRD50 ;ACCRUE NEXT WORD IN RAD50 FORM  
29 000412 026767 000000G 000000G CMP R50BUF, R50NO ;IS WORD "NO"?  
30 000420 001005 BNE 1$ ;BR IF NOT  
31 ;  
32 ; Option is preceeded by NO. Concatenate NO with following qualifier.  
33 ;  
34 000422 010305 MOV R3, R5 ;GET POINTER INTO COMMAND PAST "NO"  
35 000424 004767 000000G CALL SKPSPC ;SKIP OVER SPACES FOLLOWING "NO"  
36 000430 112325 4$: MOVB (R3)+, (R5)+ ;CONCATENATE OPTION WORD WITH "NO"  
37 000432 001376 BNE 4$ ;MOVE ALL OF COMMAND  
38 000434 010203 1$: MOV R2, R3 ;GET BACK POINTER TO OPTION WORD  
39 ;  
40 ; Look up the option word.  
41 ;  
42 000436 011404 MOV @R4, R4 ;GET POINTER TO TABLE OF OPTIONS FOR COMMAND  
43 000440 004767 000000G CALL SEARCH ;LOOK FOR THE CORRECT OPTION WORD  
44 000444 103403 BCS BDSO ;BR IF INVALID OPTION  
45 ;  
46 ; Enter Option processing routine.  
47 ;  
48 000446 012605 MOV (SP)+, R5  
49 000450 012602 MOV (SP)+, R2  
50 000452 000134 JMP @R4+ ;PERFORM PROCESSING FOR OPTION  
51 ;  
52 ; Invalid option.  
53 ;  
54 000454 005704 BDSO: TST R4 ;INVALID OR AMBIGUOUS OPTION?  
55 000456 001407 BEQ INVSOP ;BR IF INVALID  
56 000460 FABORT #AMBOPT ;AMBIGUOUS OPTION  
57 000470 INVLD0: .PURGE #HANCHN ;MAKE SURE THE CHANNEL IS CLOSED
```

TSKST1 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:57 Page 8-1
SET command

58 000476 INVSOPI: FABORT #INVOPT ; INVALID OPTION

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System parameters

```
1           .SBTTL . System parameters
2
3           ;-----;
4           ; Set a system parameter value.
5           ;
6           ; Inputs:
7           ; R4 Points to cell with address of parameter cell to be modified,
8           ; following word contains maximum legal value for parameter.
9
9 000506 012746 177777   SETSVB: MOV    #-1,-(SP)      ; Signal byte value
10 000512 000401          BR     SETSVC          ; Br to common code
11 000514 005046          SETSVL: CLR    -(SP)        ; Signal word value
12 000516 004767 000000G  SETSVC: CALL   CKSYPV       ; Must have SYSPRV privilege
13
14           ; Accrue numeric value
15
16 000522 004767 000000G  CALL    ACRDEC        ; ACCRUE A DECIMAL VALUE
17 000526 016400 000002    MOV    2(R4),R0       ; GET MAX LEGAL VALUE FOR PARAMETER
18
19           ; Make sure the value is valid.
20           ; R1 = Accrued value, R0 = Maximum legal value.
21
22 000532 005701          SETSVV: TST    R1          ; CHECK FOR NEGATIVE VALUE SPECIFIED
23 000534 002402          BLT    3$          ; BR IF INVALID VALUE SPECIFIED
24 000536 020100          CMP    R1,R0        ; IS SPECIFIED VALUE OK?
25 000540 101413          BLDS   1$          ; BR IF OK
26 000542 010001          3$:   MOV    R0,R1        ; GET MAX LEGAL VALUE
27 000544 010005          MOV    R0,R5
28 000546              .PRINT #MAXAVL      ; VALUE TOO LARGE
29 000554 004767 000000G  CALL   PRTDEC        ; PRINT MAX LEGAL VALUE
30 000560              .PRINT #CRLF       ; END LINE
31 000566 000406          BR    4$          ; FINISHED
32
33           ; Store value into parameter cell
34
35 000570 005726          1$:   TST    (SP)+      ; Word or byte value?
36 000572 001403          BEQ    2$          ; Br if word
37 000574 110174 000000    MOVB   R1,@(R4)      ; Store byte value
38 000600 000401          BR    4$          ; Finish
39 000602 010134          2$:   MOV    R1,@(R4)+    ; STORE NEW VALUE INTO PARAMETER CELL
40 000604 000167 000000G  4$:   JMP    RDCMD       ; FINISHED
41
42           ; SET NUMDC value
43
44 000610 004767 000000G  SETNDC: CALL   CKSYPV       ; Must have SYSPRV privilege
45
46           ; Accrue numeric value
47
48 000614 004767 000000G  CALL    ACRDEC        ; ACCRUE A DECIMAL VALUE
49 000620 016700 000000G  MOV    VNUMDC,R0       ; GET MAX LEGAL VALUE FOR PARAMETER
50 000624 000742          BR    SETSVV       ; Check and store value
```

System parameters

```

1 ;  

2 ; SET CACHE = value  

3 ;  

4 000626 004767 000000G STCHNB: CALL CKSYPV ; Must have SYSPRV privilege  

5 ;  

6 ; Accrue numeric value  

7 ;  

8 000632 004767 000000G CALL ACRDEC ; ACCRUE A DECIMAL VALUE  

9 000636 016700 000000G MOV CSHALC, R0 ; GET MAX LEGAL VALUE FOR PARAMETER  

10 000642 005701 TST R1 ; CHECK FOR NEGATIVE VALUE SPECIFIED  

11 000644 002402 BLT 3$ ; BR IF INVALID VALUE SPECIFIED  

12 000646 020100 CMP R1, R0 ; IS SPECIFIED VALUE OK?  

13 000650 101412 BLOS 1$ ; BR IF OK  

14 000652 010001 3$: MOV R0, R1 ; GET MAX LEGAL VALUE  

15 000654 010005 MOV R0, R5 ;  

16 000656 .PRINT #MAXAVL ; VALUE TOO LARGE  

17 000664 004767 000000G CALL PRTDEC ; PRINT MAX LEGAL VALUE  

18 000670 .PRINT #CRLF ; END LINE  

19 ;  

20 ; Store value into parameter cell  

21 ;  

22 000676 010167 000000G 1$: MOV R1, VCSHNB ; STORE NEW VALUE INTO PARAMETER CELL  

23 ;  

24 ; Now clean out the data cache  

25 ;  

26 000702 012700 000056' MOV #DCHNEW, R0 ; EMT to clean out the cache  

27 000706 104375 EMT 375 ;  

28 000710 000167 000000G JMP RDCMD ; FINISHED  

29 ;  

30 ; SET CTRL'D [NO]DEBUG  

31 ;  

32 000714 105767 000000G STCDON: TSTB VDBFLG ; Was debugger genned into the system?  

33 000720 001004 BNE 1$ ; Br if yes  

34 000722 FABORT #EM$NPD ; No program debugger  

35 000732 032767 000000G 000000G 1$: BIT #PO$DBG, PRIVCO ; Can we use debugger?  

36 000740 001004 BNE 2$ ; Br if yes  

37 000742 FABORT #EM$NAD ; Not allowed to use debugger  

38 000752 052761 000000G 000000G 2$: BIS ##CTRLD, LSW9(R1); Enable ctrl-D debugger entry  

39 000760 000167 000000G JMP RDCMD  

40 000764 042761 000000G STCDOF: BIC ##CTRLD, LSW9(R1); Disable ctrl-D debugger entry  

41 000772 000167 000000G JMP RDCMD  

42 ;  

43 ; SET EMT TRACE  

44 ;  

45 000776 032767 000000G 000000G SETEMT: BIT #PO$DBG, PRIVCO ; Are we allowed to use debugger?  

46 001004 001004 BNE 1$ ; Br if yes  

47 001006 FABORT #EM$NAD ; Not allowed to use debugger  

48 001016 052761 000000G 000000G 1$: BIS ##EMTTR, LSW6(R1); Enable EMT trace  

49 001024 000167 000000G JMP RDCMD

```

```
1 .SBTTL . Real device
2 ;
3 ; The device name is not a pseudo-device.
4 ; See if it is the name of a real device.
5 ;
6 001030 016701 000000G SETDEV: MOV R50BUF, R1 ; GET THE DEVICE NAME AND UNIT
7 001034 005000 CLR R0 ; CLEAR HIGH ORDER REGISTER
8 001036 071027 000050 DIV #50, R0 ; STRIP THE LAST RAD 50 CHARACTER
9 001042 010146 MOV R1, -(SP) ; SAVE THE UNIT NUMBER
10 001044 070027 000050 MUL #50, R0 ; GET THE DEVICE NAME SHIFTED
11 001050 010167 000000G MOV R1, R50BUF ; AND STORE BACK INTO THE RAD 50 BUFFER
12 001054 012601 MOV (SP)+, R1 ; GET THE UNIT NUMBER
13 001056 001407 BEQ 2$ ; BR IF NO UNIT NUMBER WAS SPECIFIED
14 001060 162701 000036 SUB #36, R1 ; NORMALIZE TO ZERO
15 001064 002450 BLT SETIVD ; ERROR IF LESS THAN ZERO
16 001066 020127 000007 CMP R1, #7 ; CHECK UNIT RANGE
17 001072 003045 BGT SETIVD ; ERROR IF GREATER THAN SEVEN
18 001074 000402 BR 3$ ; CONTINUE
19 001076 012701 100000 2$: MOV #100000, R1 ; SET NO UNIT WAS SPECIFIED FLAG
20 001102 010167 000000G 3$: MOV R1, DEVUNT ; SAVE THE UNIT SPECIFIED
21 001106 122327 000072 CMPB (R3)+, #' : ; WAS DEVICE NAME FOLLOWED BY COLON?
22 001112 001401 BEQ 4$ ; BR IF YES
23 001114 005303 DEC R3 ; BACKUP POINTER
24 ;
25 ; Lookup the handler file and read in the first 2 blocks.
26 ;
27 001116 016767 000000G 0000002G 4$: MOV R50BUF, HNBUF+2 ; SET UP HANDLER NAME
28 001124 . LOOKUP #XAREA, #HANCHN, #HNBUF; TRY TO LOOKUP HANDLER FILE
29 001144 103420 BCS SETIVD ; BR IF CAN'T FIND HANDLER
30 001146 . READW #XAREA, #HANCHN, #BLKO, #512., #0 ; READ IN 1ST 2 BLOCKS
31 001204 103007 BCC SETCKP ; Branch if read ok
32 ;
33 ; Invalid device name.
34 ;
35 001206 SETIVD: . PURGE #HANCHN ; MAKE SURE CHANNEL IS CLOSED
36 001214 FABORT #CSIMS2 ; INVALID DEVICE NAME
37 ;
38 ; We are performing a set to a device handler.
39 ; User must be privileged to do this.
40 ;
41 001224 SETCKP: . SAVEST #XAREA, #HANCHN, #HANSAV ; Save channel status in HANSAV
42 001244 032767 000000G 000000G BIT #PO$OPR, PRIVCO ; Is user privileged?
43 001252 001007 BNE NXTOPT ; Br if yes
44 001254 . PURGE #HANCHN ; Close handler channel
45 001262 FABORT #EM$OPR ; Not-privileged error message
```

```

1 ; Accrue the set option word.
2 ;
3
4 001272 105067 000000G NXTOPT: CLRB NOFLAG ; RESET THE "NO" OPTION FLAG
5 001276 004767 000000G CALL SKPSPC ; SKIP OVER ANY SPACES
6 ; Check for "NO" preceding the option word.
7 001302 010302 MOV R3,R2 ; SAVE COMMAND STRING POINTER
8 001304 004767 000000G CALL GETKCH ; GET NEXT COMMAND CHARACTER
9 001310 120027 000116 CMPB R0,#'N ; IS IT "N"?
10 001314 001012 BNE 7$ ; BR IF NOT
11 001316 004767 000000G CALL GETKCH ; CHECK NEXT CHARACTER
12 001322 120027 000117 CMPB R0,#'O ; IS IT "O"?
13 001326 001005 BNE 7$ ; BR IF NOT
14 001330 105267 000000G INCB NOFLAG ; REMEMBER "NO" SPECIFIED
15 001334 004767 000000G CALL SKPSPC ; SKIP OVER SPACES FOLLOWING "NO"
16 001340 000401 BR 9$ ; ACCRUE AS A RAD50 VALUE
17 001342 010203 7$: MOV R2,R3 ; RESET POINTER TO START OF OPTION WORD
18 ; Accrue the option word.
19 001344 004767 000000G 9$: CALL GTRD50 ; ACCRUE AS A RAD50 VALUE
20 ;
21 ; Lookup the option word in the handler header.
22 ;
23 001350 012704 000400G SETOPT: MOV #BLKO+400,R4 ; POINT TO START OF HANDLER TABLE OF SET OPTIONS
24 001354 005764 000000G 10$: TST SH$VAL(R4) ; HAVE WE REACHED THE END OF THE TABLE?
25 001360 001002 BNE 11$ ; CONTINUE CHECKING
26 001362 000167 177102 JMP INVLD0 ; BR IF YES -- CAN'T FIND OPTION WORD
27 001366 026764 000000G 000000G 11$: CMP R50BUF,SH$NAM(R4) ; COMPARE NAME WITH THIS ENTRY
28 001374 001004 BNE 2$ ; BR IF MISMATCH
29 001376 026764 0000020 0000020 CMP R50BUF+2,SH$NAM+2(R4)
30 001404 001403 BEQ 9$ ; BR IF FOUND ENTRY FOR THIS OPTION
31 001406 062704 000000G 2$: ADD #SH$$SZ,R4 ; POINT TO NEXT OPTION ENTRY
32 001412 000760 BR 10$ ; CONTINUE SEARCH
33 ;
34 ; Found entry for this option.
35 ;
36 001414 116402 000000G 9$: MOVB SH$RTN(R4),R2 ; GET OFFSET TO ROUTINE TO CALL
37 001420 042702 177400 BIC #^C377,R2 ; CLEAR SIGN EXTENSION
38 001424 006302 ASL R2 ; CONVERT FROM WORD TO BYTE OFFSET
39 001426 062702 000400G ADD #BLKO+400,R2 ; ADD BASE ADDRESS
40 ; See if "NO" option is allowed.
41 001432 105767 000000G TSTB NOFLAG ; WAS "NO" SPECIFIED WITH OPTION?
42 001436 001410 BEQ 3$ ; BR IF NOT
43 001440 132764 000000G 000000G BITB #SO$NO,SH$FLG(R4) ; IS NO ALLOWED WITH THIS OPTION?
44 001446 001002 BNE 14$ ; BR IF YES
45 001450 000167 000464 JMP SETIVS ; INVALID OPTION
46 001454 062702 000004 14$: ADD #4,R2 ; GET ADDRESS OF SET ROUTINE FOR NO-OPTION
47 ; See if option takes a numeric parameter.
48 001460 132764 000000G 000000G 3$: BITB #SO$NVL,SH$FLG(R4) ; DOES OPTION REQUIRE A NUMERIC PARAMETER?
49 001466 001433 BEQ 4$ ; BR IF NOT
50 001470 004767 000000G CALL SKPSPC ; SKIP OVER ANY SPACES
51 001474 122327 000075 CMPB (R3)+,#'=' ; IS OPTION WORD FOLLOWED BY EQUAL SIGN?
52 001500 001401 BEQ 7$ ; BR IF YES
53 001502 005303 DEC R3 ; BACKUP POINTER
54 001504 004767 000000G 7$: CALL SKPSPC ; SKIP OVER ANY SPACES
55 001510 010305 MOV R3,R5 ; SAVE POINTER TO START OF NUMBER
56 001512 132764 000000G 000000G BITB #SO$OCT,SH$FLG(R4) ; IS NUMERIC VALUE OCTAL?
57 001520 001003 BNE 6$ ; BR IF YES

```

```

58 001522 004767 000000G          CALL    ACRDEC      ; ACCRUE A DECIMAL VALUE
59 001526 000402                  BR      5$          ;
60 001530 004767 000000G          6$:    CALL    ACROCT      ; ACCRUE AN OCTAL VALUE
61 001534 010100                  5$:    MOV     R1, R0      ; GET VALUE IN R0 FOR SET ROUTINE
62 001536 020305                  CMP     R3, R5      ; DID WE ACTUALLY GET A NUMBER?
63 001540 001002                  BNE     15$        ; BR IF YES
64 001542 000167 000372          JMP     SETIVS      ; BR IF NOT
65 001546 122327 000056          15$:   CMPB   (R3)+, #'.' ; WAS DECIMAL POINT SPECIFIED?
66 001552 001401                  BEQ     4$          ; BR IF YES
67 001554 005303                  DEC     R3          ; BACKUP POINTER
68
69
70
71
72
73 001556 010046                  4$:    MOV     R0, -(SP)   ; Save numeric parameter value
74 001560                      .PURGE #17      ; Purge channel 17 (KMON overlay channel)
75 001566                      .REOPEN #XAREA, #17, #HANSAV ; Open channel 17 to handler file
76 001606 012600                  MOV     (SP)+, R0    ; Restore numeric parameter value
77
78
79
80
81
82
83 001610 010346                  MOV     R3, -(SP)   ; SAVE COMMAND STRING POINTER
84 001612 016403 000000G          MOV     SH$VAL(R4), R3 ; GET VALUE FROM OPTION ENTRY
85 001616 016701 000000G          MOV     DEVUNT, R1   ; GET THE DEVICE UNIT SPECIFIED
86 001622 000241                  CLC
87 001624 004712                  CALL   @R2        ; CALL SET PROCESSING ROUTINE IN HANDLER
88 001626 012603                  MOV     (SP)+, R3    ; RECOVER COMMAND STRING POINTER
89 001630 012702 000000          MOV     #0, R2      ; SAY NO ERROR (DON'T AFFECT C-FLAG)
90 001634 103001                  BCC   13$        ; BR IF NO ERROR OCCURRED
91 001636 005202                  INC     R2          ; SET ERROR FLAG IN R2
92
93
94
95 001640                      13$:   .PURGE #17      ; Purge channel 17
96 001646                      .REOPEN #XAREA, #17, #KMNCNN ; Reopen channel 17 to KMON
97 001666                      .REOPEN #XAREA, #HANCHN, #HANSAV ; Reopen HANCHN to handler
98 001706 005702                  TST     R2          ; Any error detected in handler?
99 001710 001113                  BNE     SETIVS      ; Br if yes
100
101
102
103 001712 004767 000000G          CALL    SKPSPC      ; SKIP SPACES
104 001716 112300                  MOVB   (R3)+, R0    ; GET NEXT CHAR
105 001720 001406                  BEQ     SETUP       ; BR IF REACHED END
106 001722 120027 000054          CMPB   R0, #'.'    ; IS COMMA THE DELIMITTER?
107 001726 001401                  BEQ     12$        ; BR IF YES
108 001730 005303                  DEC     R3          ; BACKUP STRING POINTER
109 001732 000167 177334          12$:   JMP     NXTOPT      ; GO PROCESS THE NEXT OPTION

```

Real device

```

1 ; Finished with all options.
2 ; Write updated handler back to its disk file.
3 ;
4
5 001736 SETUP: .WRITW #XAREA, #HANCHN, #BLKO, #512., #0
6 001774 .CLOSE #HANCHN
7 ;
8 ; Now try to update the running handler in memory.
9 ;
10 002002 016702 000000G MOV NUMDEV, R2 ; GET INDEX TO LAST DEVICE IN DEVICE TABLES
11 002006 016700 000002G MOV HNBUF+2, R0 ; Get device name
12 002012 020062 000000G 1$: CMP R0, PNAME(R2) ; LOOKUP DEVICE NAME
13 002016 001412 BEQ 3$ ; BR IF FOUND
14 002020 162702 000002 SUB #2, R2 ; MORE ENTRIES TO CHECK?
15 002024 003372 BGT 1$ ; BR IF YES
16 002026 FWARN #EM$HNI ; Warn that handler is not installed
17 002042 000434 BR 2$ ; 
18 ;
19 ; We have located the entry for the handler.
20 ; See if we are allowed to change the in-memory handler image.
21 ;
22 002044 032762 000000G 000000G 3$: BIT #DX$NST, DVFLAG(R2); Are we allowed to reload running handler?
23 002052 001407 BEQ 4$ ; Br if yes
24 002054 FWARN #TM$MRS ; Tell user that he must reboot the system
25 002070 000421 BR 2$ ; 
26 002072 012700 000000G 4$: MOV #HUPARG, R0 ; POINT TO ARG BLOCK FOR UPDATE INFO
27 002076 010260 000004 MOV R2, 4(R0) ; SET DEVICE INDEX NUMBER
28 002102 005067 001006G CLR BLKO+1006 ; Clear LQE in handler image
29 002106 005067 001010G CLR BLKO+1010 ; Clear CQE in handler image
30 002112 012760 001000G 000006 MOV #BLKO+1000, 6(R0); SET ADDRESS OF START OF NEW HANDLER CODE
31 002120 104375 EMT 375 ; TRY TO UPDATE RUNNING HANDLER
32 002122 103004 BCC 2$ ; BR IF SUCCESSFUL
33 002124 FABORT #HANSY ; HANDLER WAS ACTIVE
34 002134 000167 000000G 2$: JMP RDCMD ; FINISHED
35 ;
36 ; Invalid command
37 ;
38 002140 SETIVS: .PURGE #HANCHN ; MAKE SURE CHANNEL IS CLOSED
39 002146 FABORT #CSIMS1

```

1 ;
2 ; Process options which only involve setting/resetting flags.
3 ;
4 ; Set a bit in a user table
5 ;
6 002156 004767 000000G PRVSET: CALL CKPRIV ; REQUIRE PRIVILEGE
7 002162 012405 SETBIT: MOV (R4)+, R5 ; POINT TO TABLE
8 002164 060105 ADD R1, R5 ; POINT TO TABLE ENTRY FOR THIS USER
9 002166 051415 BIS @R4, @R5 ; SET THE DESIRED FLAG
10 002170 000167 000000G JMP RDCMD
11 ;
12 ; Reset a bit in a user table
13 ;
14 002174 004767 000000G PRVCLR: CALL CKPRIV ; REQUIRE PRIVILEGE
15 002200 012405 CLRBIT: MOV (R4)+, R5 ; POINT TO TABLE
16 002202 060105 ADD R1, R5 ; POINT TO TABLE ENTRY FOR THIS USER
17 002204 041415 BIC @R4, @R5 ; RESET THE DESIRED FLAG
18 002206 000167 000000G JMP RDCMD
19 ;
20 ; Routine to store a value into a word cell
21 ;
22 002212 012405 STRWRD: MOV (R4)+, R5 ; POINT TO WORD
23 002214 011415 MOV (R4), (R5) ; SET VALUE IN WORD
24 002216 000167 000000G JMP RDCMD
25 ;
26 ; Routine to accrue a byte value and store it into a line table.
27 ;
28 002222 122327 000075 SETBYT: CMPB (R3)+, #'=' ; EQUAL SIGN SHOULD BE NEXT CHAR
29 002226 001014 NOEQL: BNE NOEQL ; BR IF ERROR
30 002230 122327 000040 2\$: CMPB (R3)+, #' ' ; SKIP INTERVENING SPACES
31 002234 001775 BEQ 2\$
32 002236 005303 DEC R3
33 002240 004767 000000G CALL ACRDEC ; ACCRUE THE DECIMAL VALUE
34 002244 116702 000000G MOVB CORUSR, R2 ; GET LINE INDEX #
35 002250 061402 ADD @R4, R2 ; POINT TO LINE ENTRY IN TABLE
36 002252 110112 MOVB R1, @R2 ; STORE VALUE INTO TABLE
37 002254 000167 000000G JMP RDCMD
38 ;
39 002260 NOEQL: FABORT #MISSEQ ; MISSING EQUAL SIGN
40 ;
41 ; Set EDIT EDIT
42 ;
43 002270 042761 000000C 000000G SEEDIT: BIC ##TECO!\$KED, LSW5(R1)
44 002276 000167 000000G JMP RDCMD
45 ;
46 ; Set EDIT TECO
47 ;
48 002302 042761 000000G 000000G SETECO: BIC ##KED, LSW5(R1)
49 002310 052761 000000G 000000G BIS ##TECO, LSW5(R1)
50 002316 000167 000000G JMP RDCMD
51 ;
52 ; SET EDIT KED/K52
53 ;
54 002322 SEK52:
55 002322 042761 000000G 000000G SEKED: BIC ##TECO, LSW5(R1)
56 002330 052761 000000G 000000G BIS ##KED, LSW5(R1)
57 002336 000167 000000G JMP RDCMD

58 ;
59 ; SET UCL FIRST
60 ;
61 002342 052761 000000G 000000G STUCLF: BIS ##\$UCLCF, LSW7(R1); Set UCL-first flag
62 002350 042761 000000C 000000G BIC #<\$UCLCM!\$UCLCL>, LSW7(R1) ;Clear call-middle & call-last flags
63 002356 000167 000000G JMP RDCMD
64 ;
65 ; SET UCL MIDDLE
66 ;
67 002362 052761 000000G 000000G STUCLM: BIS ##\$UCLCM, LSW7(R1); Set UCL-middle flag
68 002370 042761 000000C 000000G BIC #<\$UCLCF!\$UCLCL>, LSW7(R1) ;Clear call-first & call-last flags
69 002376 000167 000000G JMP RDCMD
70 ;
71 ; SET UCL LAST
72 ;
73 002402 052761 000000G 000000G STUCLL: BIS ##\$UCLCL, LSW7(R1); Set UCL-last flag
74 002410 042761 000000C 000000G BIC #<\$UCLCF!\$UCLCMD>, LSW7(R1) ;Clear call-first & call-middle flag
75 002416 000167 000000G JMP RDCMD
76 ;
77 ; SET UCL NONE
78 ;
79 002422 042761 000000C 000000G STUCLN: BIC #<\$UCLCF!\$UCLCM!\$UCLCL>, LSW7(R1) ;Clear all UCL-call flags
80 002430 000167 000000G JMP RDCMD
81 ;
82 ; SET KMON IND
83 ;
84 002434 005767 000000G SETIND: TST INDSAV ; IS IND AVAILABLE?
85 002440 001432 BEQ 1\$; BR IF NOT
86 002442 052761 000000G 000000G BIS ##INDDF, LSW5(R1); SAY WE SHOULD USE IND
87 002450 . GVAL #XAREA, #<CFSTS-MONVEC> ; GET CURRENT COMMAND FILE FLAGS
88 002470 010002 MOV R0, R2
89 002472 052702 000000G BIS #CF\$IND, R2 ; SET IND FLAG
90 002476 . PVAL #XAREA, #<CFSTS-MONVEC>, R2; STORE UPDATED FLAGS
91 002522 000167 000000G JMP RDCMD
92 002526 1\$: FABORT #NOIND
93 ;
94 ; SET KMON NO IND
95 ;
96 002536 042761 000000G 000000G RSTIND: BIC ##INDDF, LSW5(R1); CLEAR IND FLAG
97 002544 . GVAL #XAREA, #<CFSTS-MONVEC> ; GET CURRENT COMMAND FILE FLAGS
98 002564 010002 MOV R0, R2
99 002566 042702 000000G BIC #CF\$IND, R2 ; RESET IND FLAG
100 002572 . PVAL #XAREA, #<CFSTS-MONVEC>, R2; STORE UPDATED FLAGS
101 002616 000167 000000G JMP RDCMD

		SBTTL	Prompt
1			
2			
3			; SET PROMPT string
4			
5	002622		SETPRT:
6			
7			; Skip any leading spaces in front of prompt string
8			
9	002622 004767 000000G	CALL SKPSPC	
10	002626 012704 000000G	MOV #KMPRMT, R4	; Point to prompt holder in context block
11			
12			; Determine if prompt string is enclosed in quotes
13			
14	002632 111300	MOVB (R3), R0	; Get first char of prompt string
15	002634 120027 000047	CMPB R0, #47	; Is string enclosed in " " characters?
16	002640 001403	BEQ 2\$; Br if yes
17	002642 120027 000042	CMPB R0, #42	; How about " " ?
18	002646 001007	BNE 3\$; Br if not
19			
20			; String is enclosed in quotes
21			
22	002650 004767 000000G	2\$: CALL ACRSTR	; Accrue the string
23	002654 010002	MOV R0, R2	; Get length of the string
24	002656 001417	BEQ 6\$; Br if string is empty
25	002660 012703 000000G	MOV #BLKO, R3	; Point to buffer with string
26	002664 000403	BR 10\$	
27			
28			; String is not enclosed in quotes
29			
30	002666 020302	3\$: CMP R3, R2	; Anything in prompt string?
31	002670 103012	BHIS 6\$; Br if not
32	002672 160302	SUB R3, R2	; Determine length of prompt string
33			
34			; Make sure string is not too long
35			
36	002674 020227 000000G	10\$: CMP R2, #MXPRMT	; Is string too long?
37	002700 101411	BLOS 5\$; Br if ok
38	002702	FERR #BADPMT	; Prompt string too long
39	002716 112724 000056	6\$: MOVB #'., (R4)+	; Set prompt to ".."
40	002722 000402	BR 8\$	
41			
42			; Set prompt string
43			
44	002724 112324	5\$: MOVB (R3)+, (R4)+	; Move prompt string to KMON context block
45	002726 077202	SOB R2, 5\$	
46	002730 112714 000200	8\$: MOVB #200, (R4)	; Terminate the prompt string
47			
48			; Finished
49			
50	002734 000167 000000G	9\$: JMP RDCMD	; Go get next command

TSKST1 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:57 Page 16
Syspassword

```
1          .SBTTL . Syspassword
2          ; -----
3          ; SET SYSPASSWORD command
4          ;
5 002740      SETSYP:
6          ;
7          ; User must have SYSPRV privilege
8          ;
9 002740 004767 000000G      CALL    CKSYPV      ; Make sure user has SYSPRV privilege
10         ;
11         ; Accrue the password string
12         ;
13 002744 004767 000000G      CALL    ACRTXT      ; Accrue the text string
14         ;
15         ; Make sure it's not too long
16         ;
17 002750 020027 000024      CMP     R0, #20.      ; Compare with max legal length
18 002754 101404      BLOS    1$          ; Br if ok
19 002756      FABORT  #EM$SPL      ; Password string is too long
20         ;
21         ; Move password to password buffer
22         ;
23 002766 012702 000000G      1$:    MOV     #BLKO, R2      ; Point to accrued password
24 002772 012703 000000G      MOV     #SYPSWD, R3      ; Point to system buffer
25 002776 112223      2$:    MOVB   (R2)+, (R3)+      ; Move password string
26 003000 001376      BNE    2$          ; Loop if more to move
27         ;
28         ; Finished
29         ;
30 003002 000167 000000G      JMP    RDCMD
```

TSKST1 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:57 Page 17
Endstartup

```
1 .SBTTL . Endstartup
2 ; -----
3 ; SET ENDSTARTUP command
4 ; (Signal end of privileged portion of start-up command file)
5 ;
6 003006 042761 000000G 000000G SETESU: BIC    ##NOIN,LSW3(R1) ;Allow input to be accepted for line
7 003014 042761 000000G 000000G      BIC    ##SUCF,LSW9(R1) ;Say not in start-up command file
8 003022 000167 000000G      JMP    RDCMD
```

```
1 .SBTTL . Window
2 ; -----
3 ; SET WINDOW command
4 ;
5 003026
6 ;
7 ; User must be authorized to create global regions in order to use windows
8 ;
9 003026 032767 0000000 0000000 BIT #P2$CGR,PRIVC2 ;May job create global regions?
10 003034 001004 BNE 10$ ;Br if yes
11 003036 FABORT #EM$WCM ;Not privileged to do this
12 ;
13 ; Initialize some cells
14 ;
15 003046 112767 000120 175016 10$: MOVB #80.,WINMAK+4 ;Set window width to 80 columns
16 003054 112767 000020 175011 MOVB #16.,WINMAK+5 ;Set default max scroll lines
17 003062 005067 174730 CLR WINFLG ;No flags yet
18 ;
19 ; Do command parsing
20 ;
21 003066 012704 001460' MOV #WINHD,R4 ;Point to option driver list
22 003072 004767 0000000 CALL SCNOPS ;Process all command options
23 ;
24 ; Now see which options were specified
25 ;
26 003076 016705 174714 12$: MOV WINFLG,R5 ;Pick up option flags
27 ;
28 ; See if OFF was specified
29 ;
30 003102 032705 000001 BIT #WFDEL,R5 ;Was OFF option specified?
31 003106 001404 BEQ 1$ ;Br if not
32 003110 012700 000104' MOV #WINDEL,RO ;Delete the window
33 003114 104375 EMT 375
34 003116 000455 BR 20$
35 ;
36 ; If WIDE option was specified, set window width to 132 columns
37 ;
38 003120 032705 000010 1$: BIT #WF132,R5 ;Was WIDE option specified?
39 003124 001403 BEQ 2$ ;Br if not
40 003126 112767 000204 174736 MOVB #132.,WINMAK+4 ;Set window width to 132 columns
41 ;
42 ; Try to make the window
43 ;
44 003134 032761 000000C 0000000 2$: BIT #<VT100!VT200!VT52>,LTRMTP(R1) ;VT100, VT200 or VT52
45 003142 001004 BNE 13$ ;Br if yes
46 003144 FABORT #EM$SLT ;Invalid terminal type
47 003154 012700 000066' 13$: MOV #WINMAK,RO ;Point to window-make arg block
48 003160 104375 EMT 375 ;Try to create the window
49 003162 103435 BCS 30$ ;Br if error on window creation
50 ;
51 ; Select the window
52 ;
53 003164 012700 000100' MOV #WINMAP,RO ;EMT to map to the window
54 003170 104375 EMT 375
55 ;
56 ; If WIDE was specified, send string to put term in 132 col mode
57 ;
```

58 003172 032705 000010 BIT #WF132,R5 ; Was WIDE option specified?
59 003176 001403 BEQ 3\$; Br if not
60 003200 .PRT #TC132 ; Put terminal in 132 column mode
61
62 ; If NARROW was specified, send string to put term in 80 col mode
63
64 003206 032705 000020 3\$: BIT #WF80,R5 ; Was NARROW option specified?
65 003212 001403 BEQ 4\$; Br if not
66 003214 .PRT #TC80 ; Put terminal in 80 column mode
67
68 ; If REVERSE was specified, put terminal in reverse video mode
69
70 003222 032705 000002 4\$: BIT #WFREV,R5 ; Was REVERSE option specified?
71 003226 001403 BEQ 5\$; Br if not
72 003230 .PRT #TCREV ; Put terminal in reverse video mode
73
74 ; If NORMAL was specified, put terminal in normal video mode
75
76 003236 032705 000004 5\$: BIT #WFNORM,R5 ; Was NORMAL option specified?
77 003242 001403 BEQ 20\$; Br if not
78 003244 .PRT #TCNORM ; Put terminal in normal video mode
79
80 ; Finished
81
82 003252 000167 0000000G 20\$: JMP RDCMD
83
84 ; Error occurred which making window
85
86 003256 113702 0000000G 30\$: MOVB @#ERRLOC,R2 ; Get EMT error code
87 003262 020227 000004 CMP R2,#MAXWEM ; Is it too large?
88 003266 103401 BLO 31\$; Br if not
89 003270 005002 CLR R2 ; Use message for error 0 if too big
90 003272 006302 31\$: ASL R2 ; Get word table index
91 003274 016202 003306' MOV WEM(R2),R2 ; Get address of error message
92 003300 FABORT R2 ; Print the error message
93
94 ; Table of window-creation error messages
95
96 003306 0000000G WEM: WORD EM\$WC0
97 003310 0000000G WORD EM\$WC1
98 003312 0000000G WORD EM\$WC2
99 003314 0000000G WORD EM\$WC3
100 000004 MAXWEM = <. -WEM>/2

```
1 ;-----  
2 ; Process COLUMN=n option of SET WINDOW command  
3 ;  
4 003316 010146 WINCOL: MOV R1,-(SP)  
5 ;  
6 ; Accrue the column parameter value  
7 ;  
8 003320 004767 000000G CALL ACRDEC  
9 ;  
10 ; Store into EMT argument block  
11 ;  
12 003324 110167 174542 MOVB R1,WINMAK+4 ;Set column width in EMT arg block  
13 ;  
14 ; Finished  
15 ;  
16 003330 012601 MOV (SP)+,R1  
17 003332 000207 RETURN  
18 ;-----  
19 ; Process SCROLL[=n] option which specifies the maximum number  
20 ; of scroll lines.  
21 ;  
22 003334 010146 WINSCR: MOV R1,-(SP)  
23 ;  
24 ; If no parameter is specified, allow unlimited scrolling  
25 ;  
26 003336 004767 000000G CALL SKPSPC ;Skip over spaces  
27 003342 121327 000075 CMPB (R3),#'= ;Value specified?  
28 003346 001005 BNE 3$ ;If not, allow unlimited  
30 ;  
31 ; Accrue the parameter value  
32 ;  
33 003350 004767 000000G 1$: CALL ACRDEC ;Accrue decimal parameter  
34 003354 020127 000177 CMP R1,#127. ;Asked for more than max?  
35 003360 101402 BLOS 2$ ;If not, set the requested number  
36 003362 012701 177777 3$: MOV #-1,R1 ;Allow unlimited scrolling  
37 ;  
38 ; Store value into EMT argument block  
39 ;  
40 003366 110167 174501 2$: MOVB R1,WINMAK+5 ;Set max scroll lines  
41 ;  
42 ; Finished  
43 ;  
44 003372 012601 MOV (SP)+,R1  
45 003374 000207 RETURN  
46 ;-----  
47 ; SET WINDOW/NOSCROLL  
48 ;  
49 50 003376 105067 174471 WINNOS: CLRB WINMAK+5 ;0 scroll lines ==> No scrolling  
51 003402 000207 RETURN  
52 ;-----  
53 ; Process a SET WINDOW option that just sets a flag bit  
54 ;  
55 56 003404 051467 174406 WINBIT: BIS (R4),WINFLG ;Set appropriate flag bit  
57 003410 000207 RETURN
```

```
1 .SBTTL Printwindow
2 ; -----
3 ;   SET PRINTWINDOW/DEVICE=device/TYPE=type
4 ;
5 003412
6 ;
7 ;   Process qualifiers specified with command
8 ;
9 003412 012704 001574'      MOV    #PRSHD, R4      ; Point to option driver list
10 003416 004767 000000G     CALL   SCNOPS        ; Process all of the command options
11 ;
12 ;   Finished
13 ;
14 003422 000167 000000G     JMP    RDCMD
15 ;
16 ;   Process the /DEVICE=device qualifer
17 ;
18 003426 010246
19 003430 052767 000000G 000000G PRSDEV: MOV    R2, -(SP)
20 003436 004767 000000G     BIS    #PA$FLG, JPWFLG ; Default to using flag pages on new device
21 003442 004767 000000G     CALL   CHKEQ         ; Equal sign should follow qualifier name
22 003446 122327 000072     CALL   GTRD50        ; Accrue the device name
23 003452 001401             CMPB   (R3)+, #''
24 003454 005303             BEQ    1$              ; Colon specified with device name?
25 003456 016767 000000G 000000G 1$:    DEC    R3              ; Br if yes
26 003464 012602             MOV    R50BUF, JPWDEV ; Backup pointer
27 003466 000207             MOV    (SP)+, R2        ; Store into job context cell
28 ;
29 ;   Process the /TYPE=type qualifer
30 ;
31 003470 010446
32 003472 004767 000000G PRSTYP: MOV    R4, -(SP)
33 003476 012704 001670'     CALL   CHKEQ         ; Make sure we have an equal sign
34 003502 004767 000000G     CALL   SEARCH        ; Point to table of printer types
35 003506 103406             CALL   SEARCH        ; Accrue and look up printer name
36 003510 111467 000000G     BCS    1$              ; Br if invalid printer type
37 003514 016467 000002 000000G MOV    R4, JPWTYP  ; Set printer type code
38 003522 000417             MOV    2(R4), JPWFLG ; Set printer attribute flags
39 003524 005704             1$:    BR    9$              ; Printer unrecognized or ambiguous?
40 003526 001407             BEQ    2$              ; Br if not recognized
41 003530                   FERR   #EM$PTA        ; Printer type ambiguous
42 003544 000406             BR    9$              ; Printer type unrecognized
43 003546                   FERR   #EM$PTU        ; Printer type unrecognized
44 ;
45 ;   Finished
46 ;
47 003562 012604             9$:    MOV    (SP)+, R4
48 003564 000207             RETURN
49 ;
50 ;   Process the /LETTERQUALITY qualifer
51 ;
52 003566 052767 000000G 000000G PRSLET: BIS    #PA$LET, JPWFLG ; Set letter-quality flag
53 003574 000207             RETURN
54 ;
55 ;   Process the /DRAFT qualifer
56 ;
57 003576 042767 000000G 000000G PRSDRF: BIC    #PA$LET, JPWFLG ; Clear letter-quality flag
```

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Printwindow

```
58 003604 000207          RETURN
59 ; Process the /BELL qualifier
60 ;
61 62 003606 052767 000000G 000000G PRSBEL: BIS      #PA$BEL,JPWFLG ;Set bell flag
63 003614 000207          RETURN
64 ;
65 ; Process the /NOBELL qualifier
66 ;
67 68 003616 042767 000000G 000000G PRSNBL: BIC      #PA$BEL,JPWFLG ;Clear bell flag
68 003624 000207          RETURN
69 ;
70 ; Process the /FLAG qualifier
71 ;
72 73 003626 052767 000000G 000000G PRSFLG: BIS      #PA$FLG,JPWFLG ;Set flagpage flag
73 003634 000207          RETURN
74 ;
75 ; Process the /NOFLAG qualifier
76 ;
77 78 003636 042767 000000G 000000G PRSNFL: BIC      #PA$FLG,JPWFLG ;Clear flagpage flag
78 003644 000207          RETURN
79 ;
80 ; Process the /STAMP qualifier
81 ;
82 83 003646 052767 000000G 000000G PRSSTM: BIS      #PA$DTS,JPWFLG ;Set date/time stamp flag
83 003654 000207          RETURN
84 ;
85 ; Process the /NOSTAMP qualifier
86 ;
87 88 003656 042767 000000G 000000G PRSNST: BIC      #PA$DTS,JPWFLG ;Clear date/time stamp flag
88 003664 000207          RETURN
89 ;
90 ; Process the /WIDTH qualifier
91 ;
92 93 003666 042767 000000G 000000G PRSWID: BIC      #PA$NWD,JPWFLG ;Clear nowidth flag
93 003674 000207          RETURN
94 ;
95 ; Process the /NOWIDTH qualifier
96 ;
97 98 003676 052767 000000G 000000G PRSNWD: BIS      #PA$NWD,JPWFLG ;Set nowidth flag
98 003704 000207          RETURN
99 ;
100 ; Process the /KEYPRINT qualifier
101 ;
102 103 003706 116701 000000G 000000G PRSKEY: MOVB    CORUSR,R1      ;Get job index number
103 003712 052761 000000G 000000G           BIS      #$PWKEY,LSW11(R1) ;Set KEYPRINT flag
104 003720 000207          RETURN
105 ;
106 ; Process the /NOKEYPRINT qualifier
107 ;
108 109 003722 116701 000000G 000000G PRSNKY: MOVB    CORUSR,R1      ;Get job index number
109 003726 042761 000000G 000000G           BIC      #$PWKEY,LSW11(R1) ;Clear KEYPRINT flag
110 003734 000207          RETURN
```

		.SBTTL .	Priority	
1		;		
2		; SET PRIORITY value		
3		;		
4				
5	003736	004767	000000G	SETPRI: CALL ACRDEC ;Accrue decimal value
6	003742	020127	000000G	CMP R1,#MAXPRI ;Is priority too large?
7	003746	101425		BLOS 3\$;Br if ok
8	003750			5\$: FERR #BADPRI ;Invalid priority value
9	003764	012705	000000	MOV #0,R5 ;Print minimum priority
10	003770	004767	000000G	CALL PRTDEC
11	003774			.PRINT #TOTXT ;Print " to "
12	004002	116705	000000G	MOVB MXJPRI,R5 ;Print maximum priority
13	004006	004767	000000G	CALL PRTDEC
14	004012			.PRINT #CRLF ;End print line
15	004020	000427		BR 9\$
16	004022	120167	000000G	3\$: CMPB R1,MXJPRI ;Does it exceed max allowed for job?
17	004026	101417		BLOS 2\$;Br if ok
18	004030			FERR #HIPRI ;Priority is too high
19	004044	116705	000000G	MOVB MXJPRI,R5 ;Get max allowed value
20	004050	004767	000000G	CALL PRTDEC ;Display max priority
21	004054			.PRINT #CRLF
22	004062	116701	000000G	MOVB MXJPRI,R1 ;Get max allowed for job
23	004066	012700	000062'	2\$: MOV #PRIEMT, R0 ;Point to EMT arg block to set job priority
24	004072	010160	000002	MOV R1,2(R0) ;Store prio value into EMT arg block
25	004076	104375		EMT 375 ;Set job priority
26	004100	000167	000000G	9\$: JMP RDCMD ;Go get next command

1		.SBTTL .	Maxpriority
2		-----	
3		; SET MAXPRIORITY value	
4		;	
5	004104	004767	000000G
6	004110	020127	000000G
7	004114	101425	
8	004116		SETMPR: CALL ACRDEC ;Accrue decimal value
9	004132	005000	CMP R1,#MAXPRI ;Larger than max allowed?
10	004134	004767	000000G
11	004140		BLOS 1\$;Br if ok
12	004146	012705	000000G
13	004152	004767	000000G
14	004156		FERR #BADPRI ;Invalid priority value
15	004164	116701	000000G
16	004170	120167	000000G
17	004174	101404	1\$: CMPB R1,MXJPRI ;Is he attempting to increase the max pri?
18	004176		BLOS 2\$;Br if not
19	004206	110167	000000G
20	004212	116702	000000G
21	004216	126201	000000G
22	004222	101405	CMPB LBSPRI(R2),R1 ;Cannot increase maxpri
23	004224	012700	000062'
24	004230	010160	000002
25	004234	104375	MOV #PRIEMT,R0 ;Point to EMT arg block to set prio
26	004236	000167	000000G
		MOV R1,2(R0) ;Set new priority for job	
		EMT 375	
		3\$: JMP RDCMD ;Finished	

```
1 .SBTTL . ERROR
2 ; -----
3 ; ROUTINE TO SET ERROR SEVERITY ABORT LEVEL
4 ;
5 004242 111467 000000G SETSEV: MOVB @R4, ERRSEV ; SET ERROR SEVERITY FOR USER
6 004246 111404 MOVB @R4, R4 ; GET ERROR SEVERITY LEVEL
7 004250 042704 177400 BIC #177400, R4 ; CLEAR HIGH ORDER BYTE
8 004254 052704 001400 BIS #3*400, R4 ; SET COMMAND FILE NESTING DEPTH
9 004260 PVAL #XAREA, #CCFABLV-MONVEC>, R4 ;SET ABORT LEVEL IN SIMUL RMON
10 004304 000167 000000G JMP RDCMD
11
12 .SBTTL . Shutdown
13 ; -----
14 ; Set the flag that says a system shutdown is being done.
15 ;
16 004310 004767 000000G SETSHT: CALL CKPRIV ;User must have privilege
17 004314 112767 177777 000000G MOVB #-1, STPFLG ;Say system shutdown taking place
18 004322 005067 000000G CLR BOTDEV ;Reboot from system disk
19 004326 000167 000000G JMP RDCMD
20
21 ; -----
22 ; Clear the flag that says a shutdown is taking place.
23 ;
24 004332 004767 000000G SETNSH: CALL CKPRIV ;User must have privilege
25 004336 105067 000000G CLRB STPFLG ;Say we are not doing a shutdown
26 004342 000167 000000G JMP RDCMD
```

```
1           .SBTTL . Log
2
3           ; Process the SET LOG command.
4
5 004346
6
7           ; Accrue option keyword
8
9 004346 012704 002350'      MOV     #STLGHD, R4      ; Point to keyword table
10 004352 004767 000000G     CALL    SCNOPS       ; Process command qualifiers
11 004356 000167 000000G     JMP     RDCMD        ; Finished with command
12
13           ; SET LOG CLOSE
14
15 004362 004767 000000G     STLGCL: CALL   LOGCLS      ; Close the log file
16 004366 000207             RETURN
17
18           ; SET LOG CLEAN
19
20 004370 010346
21 004372 032767 000000G 000000G STLGCN: MOV   R3,-(SP)
22 004400 001427             BIT    #LF$OPN, LOGFLG ; Is the log file open now?
23 004402 012767 000000G 000000G BEQ    9$          ; Br if not
24 004410 005067 000000G      MOV    #LOGBUF, LOGPTR ; Reset buffer pointer
25 004414 012703 000000G      CLR    LOGBLK       ; Start writing at block 0
26 004420 016700 000000G      MOV    #LOGCHN, R3    ; Get channel # used for log file
27 004424 062700 000000G      CXTRMN, R0   ; Point to simulated RMON area
28 004430 020327 000021      ADD    #R$CHN, R0    ; Point to channel block for channel 0
29 004434 103404             CMP    R3, #17.     ; Is this channel in extended chan area?
30 004436 162703 000021      BLO    1$          ; Br if not
31 004442 062700 000000C      SUB    #17., R3    ; Get channel # relative to extended channels
32 004446 070327 000000G      ADD    #R$XCHN-R$CHN, R0 ; Point to 1st extended channel block
33 004452 060003             1$:   MUL    #CHNSIZ, R3 ; Get offset to block of interest
34 004454 005063 000000G      ADD    R0, R3      ; Point to our channel block
35 004460 012603             CLR    C. USED(R3) ; Say no data has been written to file
36 004462 000207             9$:   MOV    (SP)+, R3
37             RETURN
38
39           ; SET LOG WRITE
40 004464 052767 000000G 000000G STLGWR: BIS    #LF$WRT, LOGFLG ; Enable writes to log file
41 004472 000207             RETURN
42
43           ; SET LOG NOWRITE
44
45 004474 042767 000000G 000000G STLGNW: BIC    #LF$WRT, LOGFLG ; Disable log file
46 004502 000207             RETURN
47
48           ; SET LOG INPUT
49
50 004504 042767 000000G 000000G STLGIN: BIC    #LF$OUT, LOGFLG ; Clear output-logging flag
51 004512 052767 000000G 000000G BIS    #LF$IN, LOGFLG  ; Set input-logging flag
52 004520 000207             RETURN
53
54           ; SET LOG OUTPUT
55
56 004522 042767 000000G 000000G STLGOT: BIC    #LF$IN, LOGFLG ; Clear input-logging flag
57 004530 052767 000000G 000000G BIS    #LF$OUT, LOGFLG ; Set output-logging flag
```

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Log

```
58 004536 000207           RETURN
59
60           ; SET LOG ALL
61           ;
62 004540 052767 000000C 000000G STLGAL: BIS      #LF$IN!LF$OUT,LOGFLG ;Log both input and output
63 004546 000207           RETURN
```

```
1 ;  
2 ; SET LOG FILE=file-spec  
3 ;  
4 004550 010446 STLGFL: MOV R4,-(SP)  
5 004552 010546 MOV R5,-(SP)  
6 004554 004767 000000G CALL LOGCLS ;Close current log file  
7 004560 004767 000000G CALL SKPSPC ;Skip over spaces  
8 004564 122327 000075 CMPB (R3)+, #'=' ;See if equal sign was specified  
9 004570 001401 BEQ 1$ ;Br if yes (skip over it)  
10 004572 005303 DEC R3 ;Point back to first char of file spec  
11 ;  
12 ; Accrue the file spec  
13 ;  
14 004574 012704 000000G 1$: MOV #R50LOG,R4 ;Point to default extension ("LOG")  
15 004600 012705 000001 MOV #1,R5 ;Tell ACRFIL this is an output file  
16 004604 004767 000000G CALL ACRFIL ;Accrue the file spec  
17 004610 103514 BCS 10$ ;Br if invalid file spec  
18 ;  
19 ; Translate logical device name to physical  
20 ;  
21 004612 012705 000000G MOV #FILNAM,R5 ;Point to file name buffer  
22 004616 004767 000000G CALL LOGASN ;Perform logical name translation  
23 ;  
24 ; Check for empty file name  
25 ;  
26 004622 012767 000000G 000222 MOV #DS$DIR,DSBLOK+0 ;Assume device is file struct  
27 ;This forces it to check for file name if device is unrecognized by .DSTAT  
28 004630 .DSTAT #DSBLOK,#FILNAM ;Find out what kind of device it is  
29 004642 032767 000000G 000202 BIT #DS$DIR,DSBLOK+0 ;Standard file structured device?  
30 004650 001403 BEQ 5$ ;If not, can be opened without file name  
31 004652 005767 0000026 TST FILNAM+2 ;Was a file name specified?  
32 004656 001471 BEQ 10$ ;Error if not file name on dir struct device  
33 ;  
34 ; Don't allow log output to go to "TT:"  
35 ;  
36 004660 016700 000000G 5$: MOV FILNAM,R0 ;Get the log device name  
37 004664 004767 000000G CALL CHKTTD ;Is the log device TT?  
38 004670 103464 BCS 10$ ;Br if yes -- Error  
39 ;  
40 ; Try to open the file  
41 ;  
42 004672 .ENTER #XAREA,#LOGCHN,#FILNAM,FILNAM+8.  
43 004720 103004 BCC 2$ ;Br if enter ok  
44 004722 FABORT #BDLGOP ;Cannot open log file  
45 ;  
46 ; Save information about the log file physical device  
47 ;  
48 004732 016705 000000G 2$: MOV FILNAM,R5 ;Get log file device name  
49 004736 004767 000000G CALL CHKDEV ;Convert to dev # and unit #  
50 004742 103421 BCS 3$ ;Br if invalid device  
51 004744 020467 000000G CMP R4,LDDEVX ;Is log file on a logical disk?  
52 004750 001407 BEQ 4$ ;Br if yes  
53 004752 110467 000000G MOVB R4,LOGDVU ;Save log file device #  
54 004756 110067 000001G MOVB R0,LOGDVU+1 ;Save log file unit #  
55 004762 005067 000000G CLR LOGBAS ;Say not on a logical disk  
56 004766 000407 BR 3$  
57 004770 006300 4$: ASL R0 ;Convert unit # to word table index
```

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Log

```
58 004772 016067 000000G 000000G      MOV     LDPDEV(R0),LOGDVU ; Save physical device and unit #
59 005000 016067 000000G 000000G      MOV     LDBASE(R0),LOGBAS ; Save base block # of logical disk
60
61
62
63 005006 012700 000000G      3$:    MOV     #SPLHLA,R0      ; Point to emt argument block
64 005012 104375           EMT     375      ; Set hold mode for log file
65
66
67
68 005014 052767 000000C 000000G      BIS     #<CLF$OPN!LF$WRT!LF$IN!LF$OUT>, LOGFLG ; Say log file is open
69 005022 012767 000000G 000000G      MOV     #LOGBUF, LOGPTR ; Init pointer to log buffer
70 005030 005067 000000G      CLR     LOGBLK      ; Write to block 0
71
72
73
74 005034 012605           MOV     (SP)+,R5
75 005036 012604           MOV     (SP)+,R4
76 005040 000207           RETURN
77
78
79
80 005042           10$:   FABORT  #BDFNAM      ; Invalid file name
81 005052 000000 000000 000000  DSBL0K: .WORD  0,0,0,0,0      ; DSTAT result block
005060 000000 000000
```

```
1 .SBTTL . Logoff
2 ; -----
3 ; Process the SET LOGOFF command.
4 ; This command is used to declare a logoff command file.
5 ;
6 005064 SETLOF:
7 ;
8 ; Accrue option keyword
9 ;
10 005064 012704 002414' MOV #STL0HD, R4 ; Point to keyword table
11 005070 004767 000000G CALL SEARCH ; Identify keyword
12 005074 103002 BCC 1$ ; Br if identified keyword
13 005076 000167 173352 JMP BDSO ; Invalid option
14 ;
15 ; Enter keyword processing routine
16 ;
17 005102 000134 1$: JMP @R4+ ; Enter keyword processing routine
18 ;
19 ; SET LOGOFF FILE=file-spec
20 ;
21 005104 032761 000000G 000000G STLOFL: BIT ##$UCF, LSW9(R1) ; Are we in a startup command file?
22 005112 001010 BNE 1$ ; Br if yes
23 005114 032767 000000G 000000G BIT #PO$SYS, PRIVCO ; Do we have SYSPRV privilege?
24 005122 001004 BNE 1$ ; Br if yes
25 005124 FABORT #EM$NSF ; Not in a startup command file
26 ;
27 ; Accrue the file spec
28 ;
29 005134 004767 000000G 1$: CALL SKPSPC ; Skip over spaces
30 005140 122327 000075 CMPB (R3)+, #'=' ; Should have equal sign
31 005144 001401 BEQ 3$ ; Br if yes (skip over it)
32 005146 005303 DEC R3 ; Point to 1st char of file name
33 005150 012704 000000G 3$: MOV #R50COM, R4 ; Set "COM" as default extension
34 005154 005005 CLR R5 ; Tell ACRFIL this is an input file
35 005156 004767 000000G CALL ACRFIL ; Accrue the file spec
36 005162 103416 BCS 10$ ; Br if invalid file spec
37 ;
38 ; Translate logical file device name to physical device
39 ;
40 005164 012705 000000G MOV #FILNAM, R5 ; Point to file spec
41 005170 004767 000000G CALL LOGASN ; Perform any logical device assignment
42 ;
43 ; Move file spec to job context block
44 ;
45 005174 012705 000000G MOV #FILNAM, R5 ; Point to file spec
46 005200 012704 000000G MOV #LOFSPEC, R4 ; Point to job context area
47 005204 012700 000004 MOV #4, R0 ; Get # words to move
48 005210 012524 2$: MOV (R5)+, (R4)+ ; Move file spec to job context block
49 005212 077002 S0B R0, 2$ ; R0, 2$
50 ;
51 ; Finished
52 ;
53 005214 000167 000000G JMP RDCMD
54 ;
55 ; Invalid file spec
56 ;
57 005220 10$: FABORT #BDFNAM ; Invalid file name
```

```
1 .SBTTL . Subprocess
2 ; -----
3 ; Process the SET SUBPROCESS command.
4 ; This command is used to declare a command file to be executed when
5 ; a sub process (virtual line) is initiated.
6 ;
7 005230
8
9 ; Accrue option keyword
10
11 005230 012704 002424' MOV #SBPHD, R4 ;Point to keyword table
12 005234 004767 000000G CALL SCNOPS ;Process the options
13 005240 000167 000000G JMP RDCMD
14 ;
15 ; SET SUBPROCESS/FILE=file-spec
16 ;
17 005244 010446 SBPFIL: MOV R4, -(SP)
18 005246 010546 MOV R5, -(SP)
19 ;
20 ; This command is only legal within a start-up command file
21 ;
22 005250 032761 000000G 000000G BIT ##$UCF, LSW9(R1) ;Are we in a startup command file?
23 005256 001010 BNE 1$ ;Br if yes
24 005260 032767 000000G 000000G BIT #PO$SYS, PRIV0 ;Do we have SYSPRV privilege?
25 005266 001004 BNE 1$ ;Br if yes
26 005270 FABORT #EM$NSF ;Not in a startup command file
27 ;
28 ; Accrue the file spec
29 ;
30 005300 004767 000000G 1$: CALL ACRTXT ;Accrue the file string
31 005304 020027 000017 CMP R0, #15. ;Compare with max legal length
32 005310 101404 BLOS 3$ ;Br if ok
33 005312 FABORT #EM$STL ;File spec is too long
34 ;
35 ; Move file spec to job context block
36 ;
37 005322 012705 000000G 3$: MOV #BLKO, R5 ;Point to file spec
38 005326 012704 000000G MOV #SBPSUF, R4 ;Point to job context area
39 005332 112524 2$: MOVB (R5)+, (R4)+ ;Move file spec to job context block
40 005334 001376 BNE 2$ ;Loop till all moved
41 ;
42 ; Finished
43 ;
44 005336 012605 MOV (SP)+, R5
45 005340 012604 MOV (SP)+, R4
46 005342 000207 RETURN
47 ;
48 ; Invalid file spec
49 ;
50 005344 10$: FABORT #BDFNAM ;Invalid file name
```

```

1           .SBTTL . Kmon
2
3           ; Process the SET KMON USER command.
4           ; Verify that a user-written command interface program exists and if so,
5           ; set a flag saying to use it for this job.
6
7 005354
8
9           ; See if user specified a file spec
10
11 005354 004767 000000G          CALL   SKPSPC      ; Skip over any spaces
12 005360 105713                 TSTB   (R3)      ; Anything specified following "USER"?
13 005362 001417                 BEQ    2$       ; Br if not
14 005364 122327 000075          CMPB   (R3)+, #'=  ; Equal sign?
15 005370 001053                 BNE    3$       ; Error if not
16
17           ; Accrue the user file name
18
19 005372 012704 000000G          MOV    #R50SAV, R4  ; Set default extension
20 005376 005005                 CLR    R5       ; Tell ACRFIL this is an input file
21 005400 004767 000000G          CALL   ACRFIL     ; Accrue the file spec
22 005404 103451                 BCS    4$       ; Br if invalid file spec
23 005406 012704 000000G          MOV    #FILNAM, R4  ; Point to area with file spec
24 005412 010405                 MOV    R4, R5
25 005414 004767 000000C          CALL   LOGASN     ; Convert logical device name to physical
26 005420 000404                 BR    6$       ;
27
28           ; User did not specify a file name. Default to "SY:UKMON.SAV".
29
30 005422 012704 000000G          2$:   MOV    #UCIDEF, R4  ; Point to default file spec
31 005426 016714 000000G          MOV    SYNAME, (R4)  ; Set physical SY device
32
33           ; Move file spec to UCISPC area in context block
34
35 005432 012700 000004          6$:   MOV    #4, R0      ; Get # words to move
36 005436 012705 000000G          MOV    #UCISPC, R5  ; Store UCI file spec here
37 005442 012425                 5$:   MOV    (R4)+, (R5)+  ; Move file spec to job context block
38 005444 077002                 SOB    R0, 5$  ;
39
40           ; Try to lookup the specified file
41
42 005446 103410                 .LOOKUP #XAREA, #1, #UCISPC; Try to find command processor program
43 005466                 BCS    1$       ; Br if not available
44 005470                 .CLOSE #1      ; Close the program file
45 005476 052761 000000G 000000G  BIS    ##$UKMON, LSW7(R1); Set flag saying to use user-written program
46 005504 000167 000000G          JMP    RDCMD
47
48           ; Error processing
49           ; Cannot find specified file
50
51 005510                 1$:   FABORT #EM$NUK      ; User-written command processor not available
52
53           ; Invalid syntax
54
55 005520                 3$:   FABORT #MISSEQ
56
57           ; Invalid file spec

```

TSKST1 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:57 Page 28-1
Kmon

58
59 005530

i
4\$: FABORT #BDFNAM

```
1 ; -----
2 ; Process the SET KMON NEW command.
3 ; Begin to use a new version of TSKMON.
4 ;
5 005540 004767 0000006 SETKNW: CALL CKSYPV ; Must have SYSPRV privilege
6 005544 ; .LOOKUP #XAREA, #1, #KMNNAM ; TRY TO LOOKUP SY:TSKMON.SAV
7 005564 103500 BCS 1$ ; BR IF NOT THERE
8 ;
9 ; Get information about TSKMON out of block 0 of file
10 ;
11 005566 .READW #XAREA, #1, #BLKO, #256, #0 ; READ IN BLOCK 0
12 005624 016700 0000500 MOV BLKO+50, RO ; GET TOP ADDRESS OF KMON
13 005630 062700 000003 ADD #3, RO ; BOUND UP TO NEXT WORD
14 005634 042700 000001 BIC #1, RO ; FORCE EVEN
15 005640 010067 0000006 MOV RO, KMNTOP
16 005644 162700 0000006 SUB #KMNBAS, RO ; BASE ADDRESS OF KMON
17 005650 010067 0000006 MOV RO, KMNHI ; TOP OF TSKMON-KMNBAS
18 005654 062700 000777 ADD #511, RO ; BOUND UP TO PAGE SIZE
19 005660 000241 CLC
20 005662 006000 ROR RO ; CVT TO # WORDS
21 005664 000300 SWAB RO ; CVT TO # PAGES
22 005666 042700 177400 BIC #^C377, RO
23 005672 062700 0000006 ADD #CXTPAG, RO ; # PAGES NEEDED TO JOB CONTEXT AREA
24 005676 010067 0000006 MOV RO, KMNPGS ; # 256 WORD PAGES FOR KMON & CONTEXT
25 005702 016767 0000426 00000006 MOV BLKO+42, KMNSTK ; INITIAL STACK POINTER
26 005710 016767 0000406 00000006 MOV BLKO+40, KMNSTR ; STARTING ADDRESS
27 ;
28 ; Now do .SAVESTATUS so we can quickly reopen to kmon
29 ;
30 005716 .SAVEST #XAREA, #1, #KMNCCHN ; SAVE STATUS
31 ;
32 ; Now purge and reopen channel 17 to the new file (for overlays).
33 ;
34 005736 .PURGE #17 ; Purge channel 17 (overlay channel)
35 005744 .REOPEN #XAREA, #17, #KMNCCHN ; Open channel 17 to new file
36 ;
37 ; Exit to reload Kmon
38 ;
39 005764 .EXIT ; EXIT AND REENTER NEW VERSION OF TSKMON
40 ;
41 ; Error: Cannot find new Kmon file
42 ;
43 005766 1$: FABORT #NOKMON ; ERROR -- CAN'T FIND TSKMON
44 ;
45 ;
46 ; -----
47 ; Process the SET CCL NEW command.
48 ; Begin to use a new version of CCL
49 005776 004767 0000006 SETCNW: CALL CKSYPV ; Must have SYSPRV privilege
50 006002 ; .LOOKUP #XAREA, #1, #CCLNAM ; TRY TO LOOKUP SY:CCL.SAV
51 006022 103412 BCS 1$ ; BR IF CAN'T FIND IT
52 006024 ; .SAVEST #XAREA, #1, #CCLSAY ; SAVE STATUS
53 006044 000167 0000006 JMP RDCMD ; FINISHED
54 006050 1$: FABORT #NOCCL ; CAN'T FIND CCL.SAV
```

LD

```

1           .SBTTL . LD
2
3           ; Process SET LDn command
4
5 006060 005002
6 006062 020067 000000G
7 006066 001404
8 006070 010002
9 006072 166702 000000G
10 006076 006302
11
12           ; Get the option word
13
14 006100 012704 001264'
15 006104 004767 000000G
16 006110 103004
17 006112
18
19           ; Jump off to option processing routine
20
21 006122 000134
22
23           ; SET LD CLEAN
24
25 006124 004767 000000G
26 006130 000167 000000G
27
28           ; SET LDn WRITE
29
30 006134 042762 000000G 000000G SLDWRT: BIC     #LD$RON, LD$FLAG(R2) ;CLEAR READ-ONLY FLAG
31 006142 000167 000000G          JMP     RDCMD      ;FINISHED
32
33           ; SET LDn NOWRITE
34
35 006146 052762 000000G 000000G SLDNWR: BIS     #LD$RON, LD$FLAG(R2) ;SET READ-ONLY FLAG
36 006154 000167 000000G          JMP     RDCMD      ;FINISHED
37
38           ; SET LDn FREE
39
40 006160 004767 000052
41 006164 004767 000000G
42 006170 000167 000000G

```

SLDWRT: BIC #LD\$RON, LD\$FLAG(R2) ;CLEAR READ-ONLY FLAG
 JMP RDCMD ;FINISHED

SLDNWR: BIS #LD\$RON, LD\$FLAG(R2) ;SET READ-ONLY FLAG
 JMP RDCMD ;FINISHED

SLDFRE: CALL LDDMT ;DISMOUNT THIS LD
 CALL LDCLEN ;NOW RESET ALL LOGICAL DISK ASSIGNMENTS
 JMP RDCMD ;FINISHED

LD

```
1          ;  
2          ; SET LD EMPTY  
3          ; (Dismount all logical disks)  
4          ;  
5 006174  SLDEMP:  
6          ;  
7          ; Begin loop to close log files and deassign any assignments for each  
8          ; logical disk  
9          ;  
10 006174 005002      CLR     R2          ; Init index to 1st LD  
11 006176 004767      1$:    CALL    LOGDEA   ; Close any log files and make deassignments  
12 006202 062702      ADD     #2,R2       ; Get index for next LD  
13 006206 020227      CMP     R2,#14.    ; Have we done all?  
14 006212 101771      BLOS    1$          ; Loop if not  
15          ;  
16          ; Dismount the all LD's  
17          ;  
18 006214 012700      MOV     #DMTA1.D, R0  ; Emt arg. block to dismount all LD's  
19 006220 104375      EMT     375        ; Dismount all LD's  
20 006222 103003      BCC     9$          ; Branch if all LD's dismounted  
21 006224  .PRINT   #EDMALD   ; "Unable to dismount all logical disks."  
22          ;  
23          ; Finished  
24          ;  
25 006232 000167      9$:    JMP     RDCMD
```

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LD

```
1 ;-----  
2 ; Subroutine to dismount a logical disk.  
3 ;  
4 ; Inputs:  
5 ; R2 = LD unit index  
6 ;  
7 006236 010246 LDDMT: MOV R2,-(SP)  
8 006240 004767 000040 CALL LOGDEA ;Close any log files and make deassignments  
9 ;  
10 ; Tell system to stop doing directory caching for device  
11 ;  
12 006244 112767 000001 000000G MOVB #1,SERFLG ;Do .SERR to avoid abort for illegal device  
13 006252 012700 000000C MOV #DMTARG,R0 ;Point to EMT arg block  
14 006256 104375 EMT 375 ;Tell system to stop doing caching  
15 006260 105067 000000G CLRB SERFLG ;Do .HERR  
16 ;  
17 ; Clean out LD info tables  
18 ;  
19 006264 005062 000000G CLR LDPDEV(R2) ;No physical device assignment  
20 006270 072227 000002 ASH #2,R2 ;Get index into LDNAME table  
21 006274 005062 000000G CLR LDNAME(R2) ;No file name  
22 ;  
23 ; Finished  
24 ;  
25 006300 012602 4$: MOV (SP)+,R2  
26 006302 000207 RETURN
```

```
1 ;-----  
2 ;  
3 ; Subroutine to check for open log files and deassign any assignments  
4 ;  
5 ; Inputs:  
6 ; R2 = LD unit index  
7 ;  
8 006304 010246 LOGDEA: MOV R2,-(SP)  
9 006306 010546 MOV R5,-(SP)  
10 ;  
11 ; See if this LD is in use  
12 ;  
13 006310 010200 MOV R2, R0 ;Get LD unit index  
14 006312 072027 000002 ASH #2, R0 ;Cvt to index into name table  
15 006316 005760 000000G TST LDNAME(R0) ;Is this LD in use?  
16 006322 001413 BEQ 9$ ;Br if not  
17 ;  
18 ; Build name of LD  
19 ;  
20 006324 010205 MOV R2, R5 ;Get LD unit index  
21 006326 006205 ASR R5 ;Convert to unit number  
22 006330 066705 000000G ADD RSOLDO, R5 ;Add "LDO" to form unit name  
23 006334 010567 000000G MOV R5, MNTDEV ;Save name of device being dismounted  
24 ;  
25 ; Close the log file if it is on the device being dismounted  
26 ;  
27 006340 004767 000000G CALL LOGCHK ;Close log file if it is on this LD  
28 ;  
29 ; Do DEASSIGN of anything assigned to this LD  
30 ;  
31 006344 010500 MOV R5, R0 ;Get LD name  
32 006346 004767 000000G CALL DEADEV ;Do deassign  
33 ;  
34 ; Finished  
35 ;  
36 006352 012605 9$: MOV (SP)+, R5  
37 006354 012602 MOV (SP)+, R2  
38 006356 000207 RETURN
```

SL

```

1           .SBTTL   SL
2
3           ;-----;
4           ; SET SL
5           ;
6           ; Inputs:
7           ; R3 = Pointer to parameters following "SET SL".
8 006360
9
10          ; Process each of the command parameters
11
12 006360 012704 001314'      MOV     #SLEHD,R4      ;Point to list of qualifiers
13 006364 004767 0000000      CALL    SCNOPS       ;Process the qualifiers
14
15          ; Finished
16
17 006370 000167 0000000      JMP     RDCMD
18
19
20          ;-----;
21          ; SET SL ON
22
23 006374 105767 000000G      SLOON: TSTB   VSLEDT      ; Is SL available?
24 006400 001007              BNE    1$          ; Br if yes
25 006402                      FWARN #EM$NSL      ; SL not genned into system
26 006416 000425
27 006420 032761 000000C 000000G 1$:    BIT    #<VT100!VT200!VT52>, LTRMTP(R1) ; VT100, VT200 or VT52
28 006426 001007              BNE    2$          ; Br if yes
29 006430                      FWARN #EM$SLT      ; Invalid terminal type
30 006444 000412
31 006446 052761 000000G 000000G 2$:    BIS    ##$LON, LSW7(R1) ; Enable SL for this line
32 006454 032761 000000G 000000G      BIT    ##$LKED, LSW7(R1); Is Ked mode wanted?
33 006462 001403              BEQ    9$          ; Br if not
34 006464                      PRINT #SLKDON      ; Enable terminal alternate keypad mode
35 006472 000207              9$:    RETURN
36
37
38          ; SET SL OFF
39
40 006474                      SLOOFF: .PRINT #SLKDOF      ; Return numeric keypad to normal mode
41 006502 042761 000000G 000000G      BIC    ##$LON, LSW7(R1) ; Disable SL for this line
42 006510 000207              RETURN
43
44
45          ; SET SL TTY
46
47 006512 052761 000000G 000000G SLOTTY: BIS    ##$LTTY, LSW7(R1); Enable SL for .TTYIN
48 006520 000207              RETURN
49
50
51          ; SET SL NOTTY
52
53 006522 042761 000000G 000000G SLONTT: BIC    ##$LTTY, LSW7(R1); Disable SL for .TTYIN
54 006530 000207              RETURN
55
56
57          ; SET SL WIDTH=n

```

58 ;
59 006532 SLOWID: FWARN #EM\$SLW ;Print warning message
60 006546 012705 000000G MOV #SLMXLN,R5 ;Get SL width
61 006552 004767 000000G CALL PRTDEC ;Print the value
62 006556 .PRINT #CRLF ;Terminate the line
63 006564 000207 RETURN
64 ;
65 ;-----
66 ; SET SL LET
67 ;
68 006566 052761 000000G 000000G SLOLET: BIS ##\$LLET,LSW7(R1);Enable LET feature
69 006574 000207 RETURN
70 ;
71 ;-----
72 ; SET SL NOLET
73 ;
74 006576 042761 000000G 000000G SLONLT: BIC ##\$LLET,LSW7(R1);Disable LET feature
75 006604 000207 RETURN
76 ;
77 ;-----
78 ; SET SL KED
79 ;
80 006606 052761 000000G 000000G SLOCKED: BIS ##\$LKED,LSW7(R1);Remember SL is in KED mode
81 006614 .PRINT #SLKDON ;Enable terminal alternate keypad mode
82 006622 000207 RETURN
83 ;
84 ;-----
85 ; SET SL RT11
86 ;
87 006624 042761 000000G 000000G SLORT: BIC ##\$LKED,LSW7(R1);Remember SL is not in KED mode
88 006632 .PRINT #SLKDOF ;Return numeric keypad to normal mode
89 006640 000207 RETURN
90 ;
91 ;-----
92 ; Unimplemented SL option
93 ;
94 006642 SLOUNI: FWARN #EM\$UIO ;Unimplemented option
95 006656 000207 RETURN
96 ;
97 ;-----
98 ; Ignored option
99 ;
100 006660 000207 SLONOP: RETURN
101 ;
102 ;-----
103 ; SET RECALL NORMAL/REVERSE
104 ;
105 006662 012704 001444' SETREC: MOV #RCLHD,R4 ;Point to option table
106 006666 004767 000000G CALL SEARCH ;Accrue and check options
107 006672 103006 BCC 1\$;Br if valid option
108 006674 FWARN #INVOPT ;Invalid option
109 006710 111467 000000G 1\$: MOVB @R4,RCLREV ;Set into context cell
110 006714 000167 000000G JMP RDCMD
111 ;
112 000001 .END
Errors detected: 0

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SL

*** Assembler statistics

Work file reads: 0
Work file writes: 0
Size of work file: 12080 Words (48 Pages)
Size of core pool: 18176 Words (71 Pages)
Operating system: RT-11

Elapsed time: 00:01:56.07
,LP:TSKST1=DK:TSKST1/C/N:SYM

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\$8BIT	1-111				
\$AUTO	1-87				
\$CARUP	1-85				
\$CCLRN	1-86				
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\$CFALL	1-112				
\$CFCCCL	1-112				
\$CFDCC	1-112				
\$CFOPN	1-118				
\$CFSOT	1-110				
\$CHACT	1-61				
\$CLTST	1-96	5-45	5-46		
\$CTRLC	1-104				
\$CTRLD	1-154	10-38	10-40		
\$CTRLO	1-61				
\$CTRLS	1-91				
\$DBKMN	1-84	5-38	5-39		
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\$DEBUG	1-155				
\$DEFER	1-124				
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\$DIBOL	1-73	5-167	5-168		
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C.SBLK	1-115							
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CASCUP	1-97							
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CASTRO	1-98							
CASTWO	1-98							
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CCLNAM	1-196	29-50						
CCLSAY	1-94	29-52						
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CD\$BAS	1-116							
CD\$DVU	1-116							
CD\$JOB	1-116							
CD\$NAM	1-116							
CD\$TOP	1-133							
CDBUF	1-38							
CDGET	1-38							
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CF\$QUT	1-159							
CFABLV	1-160	23-9						
CFBLK	1-125							
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CFEND	1-94							
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CFLFL4	1-119							
CFNEST	1-117							
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CSHDEV	1-108					
CSHDVN	1-108					
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CSHMSG	1-203					
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