

TSKST1 -- Keyboard SET Command MACRO V05.04 Monday 21-Dec-87 12:57

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1 .TITLE TSKST1 -- Keyboard SET Command routines
2 .ENABL LC
3 .DSABL GBL
4 .CSECT TSKST1
5
6 TSKST1:
7
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.
12 ; S&H Computer Systems, Inc.
13 ; Nashville, Tennessee
14
15 ; Macro calls
16
17 .MCALL .CSISPC, .TTDOUTR, .SRESET
18 .MCALL .READW, .TTYIN, .TTYOUT, .PURGE
19 .MCALL .CSIGEN, .SAVEST, .REOPEN
20 .MCALL .GTLIN, .GTIME, .DATE, .SPFUN
21 .MCALL .PRINT, .CLOSE, .LOOKUP
22 .MCALL .WRITW, .ENTER, .EXIT
23 .MCALL .SERR, .HERR, .FPROT, .QVAL, .PVAL
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$SYS, RCLREV
36 .GLOBL PA$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, VPRIIDF, SETWRD
44 .GLOBL CLRPRV, OPTLST, PFS0, PFC0, PVNPW, PO$SPV, PRIVSO, PRVOPT
45 .GLOBL TM$PVA, TM$PVC, PRIVAO, EM$CNO, EM$CPO, EM$CAP, RSTPRV
46 .GLOBL CHKEQ, CKACQJ, PO$OPR, CKSYPV, P2$TRM, PRIVC2, PO$NAM, EM$NPR
47 .GLOBL INSTBL, INGADR, INGEMT, IIBUF, II$NAM, II$FLG, II$$SZ, EM$NAD
48 .GLOBL INSTBN, AF$SCA, AF$NOW, AF$MEM, PO$DBG, PRIVCO, PRVLST
49 .GLOBL ABRTAD, ABRTCD, CINFLG, $VNOTT, II$PRV, II$NPV
50 .GLOBL TM$RD1, TM$RD2, TM$LCL, TM$GBL, SPACE1, RC$OWN, RC$CNT
51 .GLOBL RC$EXC, RC$ACE, RC$AEP, RC$USE, RC$FLG, RC$GBL, RC$NAM
52 .GLOBL RC$LEN, RC$PVT, RCBAS, RCBEND, RC$$SZ, SHRRCB, SHRCN
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, IOABFL, $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$$SZ, UCIDEF, HANCHN
65      . GLOBL   NEDCHR, LOUTIR, LINIR, LINRTS, CLOTIR
66      . GLOBL   CO$DEF, CL$COL, LCDTYP, SOPALC, SOPDAT, SOPTIM
67      . GLOBL   UTRPAD, JSWLLOC, ERRLOC, MAXMEM, MAXPRI
68      . GLOBL   USRSTK, $KINIT, CFSTK, MXJMEM, DFJMEM, EM$HNI
69      . GLOBL   SPUBUF, SXBPNT, MXJADR
70      . GLOBL   TMTOTH, TMTOTL, TMUSRH, TMIOWH, LDMNT, EM$CSE
71      . GLOBL   TMSWTH, TMIDLH, TMIOH, TMSWPH, LDCLEN
72      . GLOBL   WILDFL, $NOIN, $NOWTT, $HITTY
73      . GLOBL   TECO, EDIT, KED, K52, $1STLG, $DIBOL
74      . GLOBL   SH$VAL, SH$NAM, SH$$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, $MLOCK, MDT, GETKCH
78      . GLOBL   LINBUF, LINNXT, LSTACT, PRGTOP, PRGSIZ, KMNH1
79      . GLOBL   KMNTOP, KMNP05, KMNSTK, KMNSTR, CXTPAG, FSTIOL
80      . GLOBL   LINPNT, LINONT, LACTIV, LRDTIM, CS$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, $CCLRN, VLDSYS, EM$NUK, $SQMID
87      . GLOBL   KL3CLR, $PRGLK, LSW5, PVON, $SPND, $AUTO
88      . GLOBL   S$TWFN, S$TTFN, S$OTFN, S$IOFN, S$OTLO
89      . GLOBL   LSTDL, FSTDL, $DETCH, UMSYTP, S$TTSC
90      . GLOBL   $DISCN, LPROJ, LPROG, LUNAME, S$RT, S$LOW
91      . GLOBL   LCPUHI, LCPULO, LCONTM, $CTRLS, $SPLJB, TXTCL
92      . GLOBL   STPFLL, TOTON, USPLCH, SPLCHN, $HICP
93      . GLOBL   S$INWT, S$OTWT, S$TMWT, S$SFWT, S9600
94      . GLOBL   S$MSWT, CFBUF, CFEND, CCLSAV, KMNCHN
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$LF1, CO$LFO, CO$BNI, CO$BNO, CL$OPT
101     . GLOBL   CL$LEN, CL$GKP, CL$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   $SGQ0, $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, $BBIT, CHKALC
112     . GLOBL   UCHAN, $FORMO, $CFALL, $CFDCC, $CFCCCL
113     . GLOBL   LNPRIM, LNMAP, CW$50H, CONFIG, $SUCF
114     . GLOBL   $DOOFF, NUChN, LRDFIL, 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, $QUIET, DIABFL
126          . GLOBL DIABNO, VT52ND, LA36ND, LA36FL
127          . GLOBL LSW4, KL4CLR, SDSKIP, SDBU, SD$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 $WILD, ERRSEV, UERSEV, PASLIN, LOGBAS, LOGDVU
135          . GLOBL LSTPL, SDCB, SDCBND, VQUANO, VQUAN3
136          . GLOBL VQUAN1, VQUN1A, VQUAN2, VHIPCT, VQUANO, VQUAN3
137          . GLOBL DCTRД, DCCRD, DCTWR, DCCWR, ASNSRC
138          . GLOBL VCORTM, NUMDCD, VNUMDC, KMPRMT, MXPRMT
139          . GLOBL RDB, RDBEND, RT$NAM, RT$$SZ, CLDEVX, SDDVU
140          . GLOBL SDNAME, SDCBSZ, LSTSL, LSTATE
141          . GLOBL TK1VAL, CINDAT, SYSDAT, SYTIMH, SYTIML
142          . GLOBL BASMAP, LOMAP, HIMAP, JCXPGS
143          . GLOBL SMRSIZ, SRTSIZ, CSHSIZ, TK1SEC
144          . GLOBL TSXLN, TSXSIT, GRT1, TRGRET, LICTXT, SUPCOD, NAMTOP, SUMS, SVCS
145          . GLOBL LPRG1, LPRG2, S$QUSR, S$IOWT, S$SFWT
146          . GLOBL S$SPDB, S$SPCB, SFUSER, SFFILE, VT200, VT2007, VT2008
147          . GLOBL LCBIT, LA36, LA120, VT52, VT100, DIABLO, QUME
148          . GLOBL ADM3A, LTRMTP, LA12FL, LA12NO, VT52FL
149          . GLOBL VT10FL, VT10NO, QUMEFL, QUMENO, ADM3FL
150          . GLOBL VT20FL, VT20NO
151          . GLOBL ADM3NO, SYINDX, SYUNIT, NUMDEV, PNAME
152          . GLOBL OF$DEV, OF$UNT, OF$FIL, OF$FLG, SYNAME
153          . GLOBL OF$$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 CFABLВ, MONVEC, LBSPRI, MAXPRI, MXJPRI, LPRI, $SYSPS
161          . GLOBL LOGCHN, LOGFLG, LOGPTR, LOGBUF, LOGBLK, LF$IN, LF$OUT
162          . GLOBL LF$OPN, LF$WRT, UCLBLK, UCLEDAT
163          . GLOBL CSHHD, FC$CDX, FC$LNK, FD$NAM, UC$NDC, UC$MDC, CVTUC
164          . GLOBL CMDBUF, PAUMSG, RDCMD, DKSAV, SYS4, 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, DVRCOR
169          . GLOBL BADSAV, LDNAM, NOPRG, NOCIN, SIZVAL, ASKLNМ, 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, TDTXT, CRLF, HIPRI, STLGHD, 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, PRTLN, 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, INVOPT  
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, SPGEML, NOOPTT  
190 . GLOBL BDLIN, MSGBUF, MSGEND, NOTON, GAGMSG  
191 . GLOBL LINFR, DJABMS, DLMSG, INVTIM, DMTALL  
192 . GLOBL SHTMSG, AUTHFN, SPLACT, DOSTOP, OFFEMT, KILEMT, UPTMMS  
193 . GLOBL TMTOTH, DIVSDR, TMTOTL, PRTPCT, SUM1, SUM2, SUM3, SUM4  
194 . GLOBL SUM5, SUM6, SUM7, OTHRON, SPLPND, STPASK, SRTSMS, CHKTTD  
195 . GLOBL SIZEMT, ASNQVF, INVLDN, CSIMS4, MNTARG, HUPARG, R50TT  
196 . GLOBL KMNNAM, NOKMON, CCLNAM, OTRMNT, CHKDEV, DMTSUB, CMDCCL  
197 . GLOBL SHOHD, SUBTXT, MNTXT, SRXTXT, 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\$NOT, \$NOINT, AF\$PLK, AF\$DBG  
205 . GLOBL AF\$IOP, \$RNIO, VOFFTM, VTMOUT

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

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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*STARTUP, 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*IOP, 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 PROC*ESS, SETPRC, O, O  
31 000262 CMDDEF PROM*PT, SETPRT, O, O  
32 000272 CMDDEF PRI*ORITY, SETPRI, O, O  
33 000302 CMDDEF PRINTS*CREEN, SETPRS, O, O  
34 000312 CMDDEF PRINTW*INDOW, SETPRS, O, O  
35 000322 CMDDEF QUANO, SETSVL, VQUANO, 10000.  
36 000332 CMDDEF QUAN1, SETSVL, VQUAN1, 10000.  
37 000342 CMDDEF QUAN1A, SFTGVL, VQUN1A, 10000.  
38 000352 CMDDEF QUAN1B, SETSVL, VQUN1B, 10000.  
39 000362 CMDDEF QUAN1C, SETSVL, VQUN1C, 10000.  
40 000372 CMDDEF QUAN2, SETSVL, VQUAN2, 10000.  
41 000402 CMDDEF QUAN3, SETSVL, VQUAN3, 10000.  
42 000412 CMDDEF REC*ALL, SETREC, O, O  
43 000422 CMDDEF SHUT*DOWN, SETSHT, O, O  
44 000432 CMDDEF NOSHUT*DOWN, SETNSH, O, O  
45 000442 CMDDEF SIG*NAL, SETSUB, SIGHD, O  
46 000452 CMDDEF SL, SETSL, O, O  
47 000462 CMDDEF SUB*PROCESS, SETSBP, O, O  
48 000472 CMDDEF SYSP*ASSWORD, SETSYPP, O, O  
49 000502 CMDDEF SYSP*WD, SETSYPP, O, O  
50 000512 CMDDEF TE*RMINAL, SETTTY, O, O  
51 000522 CMDDEF TT*Y, SETTTY, O, O  
52 000532 CMDDEF TIM*OUT, SETSVL, VTMOUT, 10000.  
53 000542 CMDDEF UC*L, SETSUB, UCLHD, O  
54 000552 CMDDEF US*R, RDCMD, O, O  
55 000562 CMDDEF VER*IFY, STVRFY, O, O  
56 000572 CMDDEF NOVER*IFY, STNOVR, O, O  
57 000602 CMDDEF WI*LDCARDS, SETSUB, WILDHD, O
```

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58 000612                   CMDDEF WIN\*DOWS, SETWIN, 0, 0  
59 000622                   CMDDEF WINP\*RT, SETPRS, 0, 0  
60 000632                   TBLEND

```
1 ; Define options for SET EDIT command
2
3 ; TBLDEF EDIT,3
4 000000 CMDDEF ED*IT, SEEDIT, 0
5 000636 CMDDEF KED, SEKEUD, 0
6 000646 CMDDEF K52, SEK52, 0
7 000656 CMDDEF T*ECO, SETECO, 0
8 000666
9 000676 TBLEND

10 ;
11 ; Define options for SET ERROR command
12 ;
13 000000 TBLDEF ERR,2
14 000702 CMDDEF W*ARNING, SETSEV, SC$WRN
15 000710 CMDDEF E*RROR, SETSEV, SC$ERR
16 000716 CMDDEF S*EVERE, SETSEV, SC$SEV
17 000724 CMDDEF F*ATAL, SETSEV, SC$FTL
18 000732 CMDDEF U*NCONDITIONAL, SETSEV, SC$UNC
19 000740 CMDDEF N*ONE, SETSEV, SC$NON
20 000746 TBLEND

21 ;
22 ; Define options for SET WILDCARDS command
23 ;
24 000000 TBLDEF WILD,3
25 000752 CMDDEF IM*PLICIT, SETBIT, LSW5, $WILD
26 000762 CMDDEF EX*PLICIT, CLRBIT, LSW5, $WILD
27 000772 TBLEND

28 ;
29 ; Define options for the SET KMON command
30 ;
31 000000 TBLDEF KMON,3
32 000776 CMDDEF IND, SETIND, LSW5, $INDDF
33 001006 CMDDEF NOI*ND, RSTIND, LSW5, $INDDF
34 001016 CMDDEF SY*STEM, CLRBIT, LSW7, $UKMON
35 001026 CMDDEF UCI, SETUKM, 0, 0
36 001036 CMDDEF USE*R, SETUKM, 0, 0
37 001046 CMDDEF NEW, SETKNW, 0, 0
38 001056 CMDDEF DEBUG, SETBIT, LSW9, $DBKMN
39 001066 CMDDEF NODEBUG, CLRBIT, LSW9, $DBKMN
40 001076 TBLEND

41 ;
42 ; Define options for the SET CCL command
43 ;
44 000000 TBLDEF CCL,3
45 001102 CMDDEF T*EST, SETBIT, LSW5, $CLTST
46 001112 CMDDEF NOT*EST, CLRBIT, LSW5, $CLTST
47 001122 CMDDEF NEW, SETCNW, 0, 0
48 001132 TBLEND

49 ;
50 ; Define options for the SET UCL command
51 ;
52 000000 TBLDEF UCL,3
53 001136 CMDDEF F*IRST, STUCLF, LSW7, $UCLCF
54 001146 CMDDEF M*IDDLE, STUCLM, LSW7, $UCLCM
55 001156 CMDDEF L*AST, STUCLL, LSW7, $UCLCL
56 001166 CMDDEF N*ONE, STUCLN, LSW7, 0
57 001176 TBLEND
```

```
58 ; Define options for the SET IND command
59 ;
60 ;
61 000000 TBLDEF IND, 3
62 001202 CMDDEF AB*ORT, SFTBIT, LSW7, $INDAB
63 001212 CMDDEF NOA*BORT, CLRBIT, LSW7, $INDAB
64 001222 TBLEND
65 ;
66 ; Define options for the SET LD command
67 ;
68 000000 TBLDEF LDOP, 1
69 001226 CMDDEF CL*EAN, SLDCLN
70 001232 CMDDEF EMP*TY, SLDEMP
71 001236 CMDDEF FR*EE, SLDFRE
72 001242 CMDDEF WR*IYE, SLDWRT
73 001246 CMDDEF NOWR*IYE, SLDNWR
74 001252 TBLEND
75 ;
76 ; Define options for the SET SL command
77 ;
78 000000 TBLDEF SLE, 1
79 001256 CMDDEF AS*K, SLONOP
80 001262 CMDDEF KED, SLOKED
81 001266 CMDDEF K52, SLOKED
82 001272 CMDDEF KEX, SLOKED
83 001276 CMDDEF NOKED, SLORT
84 001302 CMDDEF LEA*RN, SLOUNI
85 001306 CMDDEF NOLEA*RN, SLONOP
86 001312 CMDDEF LET, SLOLET
87 001316 CMDDEF NOLET, SLONLT
88 001322 CMDDEF OF*F, SLOORF
89 001326 CMDDEF ON, SLOON
90 001332 CMDDEF KM*ON, SLOON
91 001336 CMDDEF RT*11, SLORT
92 001342 CMDDEF SUB*STITUTE, GLOLET
93 001346 CMDDEF NOSUB*STITUTE, SLONLT
94 001352 CMDDEF SYS*GEN, SLONOP
95 001356 CMDDEF TT*YIN, SLOTTY
96 001362 CMDDEF NOTT*YIN, SLONTT
97 001366 CMDDEF WID*TH, SLOWID
98 001372 CMDDEF REC*ALL, SLONOP
99 001376 CMDDEF NOREC*ALL, SLONOP
100 001402 TBLEND
101 ;
102 ; Define options for the SET RECALL
103 ;
104 000000 TBLDEF RCL, 1
105 001406 CMDDEF N*ORMAL, 0
106 001412 CMDDEF R*EVERSE, 1
107 001416 TBLEND
108 ;
109 ; Define options for the SET WINDOW command
110 ;
111 000000 TBLDEF WIN, 2
112 001422 CMDDEF COL*UMNS, WINCOL, 0
113 001430 CMDDEF DA*RK, WINBIT, WFNORM
114 001436 CMDDEF DEL*ETE, WINBIT, WFDEL
```

```

115 001444      CMDDEF LI*GHT, WINHIT, WFREV
116 001452      CMDDEF NAR*ROW, WINBIT, WF80
117 001460      CMDDEF NOR*MAL, WINBIT, WFNORM
118 001466      CMDDEF OFF, WINBIT, WFDEL
119 001474      CMDDEF ON, WINBIT, O
120 001502      CMDDEF REV*ERSE, WINBIT, WFREV
121 001510      CMDDEF SCR*OLL, WINSKR, O
122 001516      CMDDEF NOSCR*OLL, WINNOS
123 001524      CMDDEF WI*DE, WINBIT, WF132
124 001532      TBLEND

125
126 ; Define options for the SET PRINTWINDOW command
127
128 000000      TBLDEF PRS, 1
129 001536      CMDDEF BEL*L, PRSBEL
130 001542      CMDDEF NOBEL*L, PRGNBL
131 001546      CMDDEF DEV*ICE, PRSDEV
132 001552      CMDDEF DR*AFT, PRSDRF
133 001556      CMDDEF KEY*PRINT, PRSKEY
134 001562      CMDDEF NOKEY*PRINT, PRSNKY
135 001566      CMDDEF LET*TERQUALITY, PRSLET
136 001572      CMDDEF TY*PE, PRSTYP
137 001576      CMDDEF WID*TH, PRSWID
138 001602      CMDDEF NOWID*TH, PRSNWD
139 001606      TBLEND

140
141 ; Printer types for SET PRINTWINDOW/TYPE=type
142
143 000000      TBLDEF PWT, 2
144 001612      CMDDEF AS*CI1, O, O
145 001620      CMDDEF FOR*EIGN, O, O
146 001626      CMDDEF PRINT*RONIX, O, O
147 001634      CMDDEF SIM*PLE, O, O
148 001642      CMDDEF ST*ANDARD, O, O
149 001650      CMDDEF LA36, O, O
150 001656      CMDDEF LA120, O, O
151 001664      CMDDEF LA100, 1, PA$GRC!PA$UKC!PA$ULN!PA$HQL!PA$DWD
152 001672      CMDDEF LA12, 1, PA$GRC!PA$UKC!PA$BLD!PA$ULN!PA$HQL!PA$DWD
153 001700      CMDDEF LA50, 1, PA$GRC!PA$UKC!PA$DSC!PA$BLD!PA$ULN!PA$HQL!PA$DWD
154 001706      CMDDEF LA210, 1, PA$GRC!PA$UKC!PA$DSC!PA$BLD!PA$ULN!PA$HQL!PA$DWD
155 001714      CMDDEF LQPO2, 1, PA$BLD!PA$ULN
156 001722      CMDDEF LQPO3, 1, PA$BLD!PA$ULN
157 001730      CMDDEF LN03, 1, PA$GRC!PA$BLD!PA$ULN!PA$DWD
158 001736      TBLEND

159
160 ; Define options for the SET LANGUAGE command
161
162 000000      TBLDEF LANG, 3
163 001742      CMDDEF DI*BOL, SETBIT, LSW6, $DIBOL
164 001752      CMDDEF DBL, CLRBIT, LSW6, $DIBOL
165 001762      TBLEND

166
167 ; Define options for the SET EMT command
168
169 000000      TBLDEF EMT, 3
170 001766      CMDDEF TR*ACE, SETEMT, LSW6, $EMTTR
171 001776      CMDDEF NOTR*ACE, CLRBIT, LSW6, $EMTTR

```

```
172 002006          TBLEND
173
174          ; Define options for the SET IOABORT command
175
176 000000          TBLDEF IOAB, 3
177 002012          CMDDEF AB*ORT, STRWRD, IOABFL, 1
178 002022          CMDDEF NOAB*ORT, STRWRD, IOABFL, 0
179 002032          TBLEND
180
181          ; Define options for the SET SIGNAL command
182
183 000000          TBLDEF SIG, 3
184 002036          CMDDEF H*IPRCT, SETBIT, LSW8, $SGHIO
185 002046          CMDDEF NOH*IPRCT, CLRBIT, LSW8, $SGHIO
186 002056          CMDDEF I*NTIOC, SETBIT, LSW8, $SGIIO
187 002066          CMDDEF NOI*NTIOC, CLRBIT, LSW8, $SGII0
188 002076          CMDDEF QUANO, SETBIT, LSW8, $SGQ0
189 002106          CMDDEF NOQUANO, CLRBIT, LSW8, $SGQ0
190 002116          CMDDEF QUAN1, SETBIT, LSW8, $SGQ1
191 002126          CMDDEF NOQUAN1, CLRBIT, LSW8, $SGQ1
192 002136          CMDDEF QUAN1A, SETBIT, LSW8, $SGQ1A
193 002146          CMDDEF NOQUAN1A, CLRBIT, LSW8, $SGQ1A
194 002156          CMDDEF QUAN1B, SETBIT, LSW8, $SGQ1B
195 002166          CMDDEF NOQUAN1B, CLRBIT, LSW8, $SGQ1B
196 002176          CMDDEF QUAN1C, SETBIT, LSW8, $SGQ1C
197 002206          CMDDEF NOQUAN1C, CLRBIT, LSW8, $SGQ1C
198 002216          CMDDEF QUAN2, SETBIT, LSW8, $SGQ2
199 002226          CMDDEF NOQUAN2, CLRBIT, LSW8, $SGQ2
200 002236          CMDDEF QUAN3, SETBIT, LSW8, $SGQ3
201 002246          CMDDEF NOQUAN3, CLRBIT, LSW8, $SGQ3
202 002256          CMDDEF OFF, CLRBIT, LSW8, $SGALL
203 002266          TBLEND
204
205          ; Define options for the SET LOG command
206
207 000000          TBLDEF STLG, 1
208 002272          CMDDEF A*LL, STLGL
209 002276          CMDDEF CLE*AN, STLGON
210 002302          CMDDEF CLO*SED, STLGCL
211 002306          CMDDEF FI*LE, STLGFL
212 002312          CMDDEF I*NPUT, STLGIN
213 002316          CMDDEF O*UTPUT, STLGOT
214 002322          CMDDEF WR*IITE, STLGWR
215 002326          CMDDEF NOWR*IITE, STLGNW
216 002332          TBLEND
217
218          ; Define options for the SET LOGOFF command
219
220 000000          TBLDEF STLO, 1
221 002336          CMDDEF FI*LE, STLOFL
222 002342          TBLEND
223
224          ; Define options for the SET SUBPROCESS command
225
226 000000          TBLDEF SBP, 1
227 002346          CMDDEF FI*LE, SBPFIL
228 002352          TBLEND
```

```
229          ; Define options for the SET CTRLD command
230          ;
231          ;
232 000000      TBLDEF CTD,1
233 002356      CMDDEF D*EBUG, STCDUN
234 002362      CMDDEF NOD*EBUG, STCDOF
235 002366      TBLEND
```

```

1 ; -----
2 ; Data areas
3 ;
4 000000 HANSAV: .BLKW 5 ; Space for .SAVESTATUS
5 000012 012276 R50CLO: .RAD50 /CL0/
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 ;
31 000056 000 126 .WORD 0 ; Line number
32 000060 000006 .WORD 0 ; Speed code
33 ;
34 000062 000 150 ; Emt to reinitialize data caching
35 ;
36 000066 000 161 ; Emt to set job priority
37 000068 001 001
38 000070 001 001 PRIEMT: .BYTE 0, 150
39 000072 120 020 .WORD 0
40 ;
41 000074 000000 000000 .WORD 0, 0
42 ;
43 000100 .001 161 ; Emt to create window # J
44 000102 .001 000
45 000104 120 020 WINMAK: .BYTE 0, 161
46 000106 000000 .BYTE 1, 1
47 000108 000000 .BYTE 00, 16
48 000110 000000 .WORD 0, 0
49 ;
50 000112 .001 161 ; Emt to map to window # J
51 000114 .001 000
52 000116 000000 .WORD 0, 0
53 000118 000000 ; Emt to delete window # J

```

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54  
55 000104 007 161 ; 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 0000000 CMDSET: CALL CVTTAB ; CONVERT TAB AND FF CHARS TO SPACES
6 000120 004767 0000000 CALL SKPSPC ; Skip up to start of device name
7 000124 010305          MOV R3,R5 ; SAVE COMMAND STRING POINTER
8 000126 105067 0000000 CLR B 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          7$: MOVB (R3)+,R0 ; Get next char of device name
14 000134 120027 000040    CMPB R0,#40 ; Reached end of name?
15 000140 101410          BLOS B$ ; Br if yes
16 000142 120027 000057    CMPB R0,#'/' ; Start of qualifiers?
17 000146 001405          BEQ B$ ; 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$: MOV R5,R3 ; Get back pointer to start of device name
22 ;
23 ; Look up device name and see if we recognize it as a pseudo-device
24 ; such as TT, WILDCARD, etc.
25 ;
26 000164 012704 000000'    MOV #SETHD,R4 ; GET TABLE OF PSEUDO-DEVICE NAMES
27 000170 004767 0000000 CALL SEARCH ; SEARCH FOR DEVICE NAME
28 000174 103401          BCS 1$ ; 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$: MOV R5,R3 ; POINT BACK TO DEVICE NAME
39 000202 005067 0000020    CLR R50BUF+2 ; CLEAR 2ND WORD OF RAD50 NAME
40 000206 004767 0000000    CALL GTRD50 ; ACCRUE RAD50 VALUE
41 000212 016700 0000000    MOV R50BUF,R0 ; GET DEVICE NAME
42 000216 005767 0000020    TST R50BUF+2 ; MAKE SURE NAME ONLY 3 CHARS LONG
43 000222 001404          BEQ 2$ ; BR IF OK
44 000224          FABORT #CSIMS2 ; INVALID DEVICE FOR SET
45 000234 004767 0000000    2$: CALL ASNSRC ; Search for device name in assign table
46 000240 103404          BCS 6$ ; Br if name was not assigned
47 000242 016200 0000000    MOV AT$DEV(R2),R0 ; Get the physical device name
48 000246 010067 0000000    MOV R0,R50BUF ; Set new device name for SET
49 ;
50 ; See if this is a SET LDn command
51 ;
52 000252 020067 0000000    6$: CMP R0,R50LD ; SEE IF IT IS LD
53 000256 103410          BLO 3$ ; BR IF NOT
54 000260 020067 0000000    CMP R0,R50LD7 ; CHECK HIGH RANGE
55 000264 101005          BHI 3$ ;
56 000266 105767 0000000    TST B VLDSYS ; IS LD SUPPORT GENNED IN?
57 000272 001415          BEQ 5$ ; BR IF NOT
```

SET command

```
58 000274 000167 005412           JMP     SETLD      ; GO PROCESS SET LD COMMAND
59
60                                     ; See if this device is allocated to another user
61
62 000300 004767 0000000           5$:    CALL     CHKALC    ; Check for allocation conflict
63
64                                     ; See if this is a SET CLn command
65
66 000304 005727 0000000           TGT     #CLTOTL   ; Are there any CL lines?
67 000310 001406                  BEQ     5$       ; Br if not
68 000312 004767 0000000           CALL    CHKCLU    ; See if this is a CL or C1 unit
69 000316 103403                  BCS     5$       ; Br if not CL or C1 unit
70 000320 010002                  MOV     R0,R2    ; Pass CL unit number in R2
71 000322 000167 0000000           JMP     SETCL    ; Process SET CL command
72 000326 000167 000446           5$:    JMP     SETDEV
```

SET command

```

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 000332 004767 0000000      SETPRV: CALL    CKSYPV           ; Must have SYSPRV privilege
15 000336 010246               SETSUB: MOV     R2,-(SP)
16 000340 010546               MOV     R5,-(SP)
17 000342 122327 000072       CMPB   (R3)+,#':        ; WAS DEVICE NAME FOLLOWED BY COLON?
18 000346 001401               BEQ    3$                ; BR IF YES
19 000350 005303               DEC    R3                ; RESET POINTER IF NOT
20 000352 004767 0000000       3$:   CALL    SKPSPC          ; SKIP OVER SPACES
21 000356 111300               MOVB   (R3),R0          ; Get next character from command
22 000360 120027 000075       CMPB   R0,#'='         ; Is there an equal sign?
23 000364 001403               BEQ    5$                ; Br if yes -- skip over equal sign
24 000366 120027 000072       CMPB   R0,#':          ; Colon separator?
25 000372 001001               BNE    6$                ; Br if not
26 000374 005203               5$:   INC    R3                ; Skip over separator
27 000376 010302               6$:   MOV    R3,R2          ; SAVE COMMAND STRING POINTER
28 000400 004767 0000000       CALL    GTRD50          ; ACCRUE NEXT WORD IN RAD50 FORM
29 000404 026767 0000000 0000000  CMP    R50BUF,R50ND        ; IS WORD "NO"?
30 000412 001005               BNE    1$                ; BR IF NOT
31 ;
32 ; Option is preceded by NO. Concatenate NO with following qualifier.
33 ;
34 000414 010305               MOV    R3,R5          ; GET POINTER INTO COMMAND PAST "NO"
35 000416 004767 0000000       CALL    SKPSPC          ; SKIP OVER SPACES FOLLOWING "NO"
36 000422 112325               4$:   MOVB   (R3)+,(R5)+        ; CONCATENATE OPTION WORD WITH "NO"
37 000424 001376               BNE    4$                ; MOVE ALL OF COMMAND
38 000426 010203               1$:   MOV    R2,R3          ; GET BACK POINTER TO OPTION WORD
39 ;
40 ; Look up the option word.
41 ;
42 000430 011404               MOV    @R4,R4          ; GET POINTER TO TABLE OF OPTIONS FOR COMMAND
43 000432 004767 0000000       CALL    SEARCH           ; LOOK FOR THE CORRECT OPTION WORD
44 000436 103403               BCS    BDSO             ; BR IF INVALID OPTION
45 ;
46 ; Enter Option processing routine.
47 ;
48 000440 012605               MOV    (SP)+,R5
49 000442 012602               MOV    (SP)+,R2
50 000444 000134               JMP    @R4+
51 ;
52 ; Invalid option.
53 ;
54 000446 005704               BDSO: TST    R4          ; INVALID OR AMBIGUOUS OPTION?
55 000450 001407               BEQ    INVSOP          ; BR IF INVALID
56 000452                   FABORT #AMBOPT        ; AMBIGUOUS OPTION
57 000462                   INVLD0 .PURGE #HANCHN    ; MAKE SURE THE CHANNEL IS CLOSED

```

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SET command

5B 000470 INVSOP: FABORT #INVOPT ; INVALID OPTION

```
1 .SBTTL . System parameters
2 ;-----+
3 ; Set a system parameter value.
4 ;
5 ; Inputs:
6 ; R4 Points to cell with address of parameter cell to be modified,
7 ; following word contains maximum legal value for parameter.
8 ;
9 000500 004767 0000000      SETSVL: CALL    CKSYPPV      ;Must have SYSPRV privilege
10
11 ; Accrue numeric value
12
13 000504 004767 0000000      CALL    ACRDEC      ;ACCRUE A DECIMAL VALUE
14 000510 016400 000002       MOV     2(R4),R0      ;GET MAX LEGAL VALUE FOR PARAMETER
15
16 ; Make sure the value is valid.
17 ; R1 = Accrued value, R0 = Maximum legal value.
18
19 000514 005701      SETSVV: TST    R1      ;CHECK FOR NEGATIVE VALUE SPECIFIED
20 000516 002402          BLT    3$      ;BR IF INVALID VALUE SPECIFIED
21 000520 020100          CMP    R1,R0      ;IS SPECIFIED VALUE OK?
22 000522 101413          BLOS   1$      ;BR IF OK
23 000524 010001          3$:   MOV    R0,R1      ;GET MAX LEGAL VALUE
24 000526 010005          MOV    R0,R5      ;VALUE TOO LARGE
25 000530
26 000536 004767 0000000      .PRINT #MAXAVL      ;PRINT MAX LEGAL VALUE
27 000542
28 000550 000401          .PRINT #CRLF      ;END LINE
29
30 ; Store value into parameter cell
31
32 000552 010134          1$:   MOV    R1,@(R4)+      ;STORE NEW VALUE INTO PARAMETER CELL
33 000554 000167 0000000      4$:   JMP    RDCMD      ;FINISHED
34
35 ; SET NUMDC value
36
37 000560 004767 0000000      SETNDC: CALL    CKSYPPV      ;Must have SYSPRV privilege
38
39 ; Accrue numeric value
40
41 000564 004767 0000000      CALL    ACRDEC      ;ACCRUE A DECIMAL VALUE
42 000570 016700 0000000      MOV     VNUMDC,R0      ;GET MAX LEGAL VALUE FOR PARAMETER
43 000574 000747          BR     SETSVV      ;Check and store value
```

```
1 ;  
2 ; SET CACHE = value  
3 ;  
4 000576 004767 0000000 STCHNB: CALL CKSYPV ; Must have SYSPRV privilege  
5 ;  
6 ; Accrue numeric value  
7 ;  
8 000602 004767 0000000 CALL ACRDEC ; ACCRUE A DECIMAL VALUE  
9 000606 016700 0000000 MOV CSHALC, R0 ; GET MAX LEGAL VALUE FOR PARAMETER  
10 000612 005701 TST R1 ; CHECK FOR NEGATIVE VALUE SPECIFIED  
11 000614 002402 BLT 3$ ; BR IF INVALID VALUE SPECIFIED  
12 000616 020100 CMP R1, R0 ; IS SPECIFIED VALUE OK?  
13 000620 101412 BLOS 1$ ; BR IF OK  
14 000622 010001 3$: MOV R0, R1 ; GET MAX LEGAL VALUE  
15 000624 010005 MOV R0, R5  
16 000626 . PRINT #MAXAVL ; VALUE TOO LARGE  
17 000634 004767 0000000 CALL PRTDEC ; PRINT MAX LEGAL VALUE  
18 000640 . PRINT #CRLF ; END LINE  
19 ;  
20 ; Store value into parameter cell  
21 ;  
22 000646 010167 0000000 1$: MOV R1, VCSHNB ; STORE NEW VALUE INTO PARAMETER CELL  
23 ;  
24 ; Now clean out the data cache  
25 ;  
26 000652 012700 000056' MOV #DCHNEW, R0 ; EMT to clean out the cache  
27 000656 104370 EMT 375  
28 000660 000167 0000000 JMP RDCMD ; FINISHED  
29 ;  
30 ; SET CTRL D [NO]DEBUG  
31 ;  
32 000664 105767 0000000 STCDON: TSTB VDBFLG ; Was debugger genned into the system?  
33 000670 001004 BNE 1$ ; Br if yes  
34 000672 FABORT #EM$NPD ; No program debugger  
35 000702 032767 0000000 0000000 1$: BIT #PO$DBG, PRIVCO ; Can we use debugger?  
36 000710 001004 BNE 2$ ; Br if yes  
37 000712 FABORT #EM$NAD ; Not allowed to use debugger  
38 000722 052761 0000000 0000000 2$: BIS ##CTRLD, LSW9(R1); Enable ctrl-D debugger entry  
39 000730 000167 0000000 JMP RDCMD  
40 000734 042761 0000000 0000000 STCDOF: BIC ##CTRLD, LSW9(R1); Disable ctrl-D debugger entry  
41 000742 000167 0000000 JMP RDCMD  
42 ;  
43 ; SET EMT TRACE  
44 ;  
45 000746 032767 0000000 0000000 SETEMT: BIT #PO$DBG, PRIVCO ; Are we allowed to use debugger?  
46 000754 001004 BNE 1$ ; Br if yes  
47 000754 FABORT #EM$NAD ; Not allowed to use debugger  
48 000766 052761 0000000 0000000 1$: BIS ##EMTTR, LSW6(R1); Enable EMT trace  
49 000774 000167 0000000 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 001000 016701 0000000 SETDEV: MOV R50BUF,R1 ; GET THE DEVICE NAME AND UNIT  
7 001004 005000 CLR R0 ; CLEAR HIGH ORDER REGISTER  
8 001006 071027 000050 DIV #50,R0 ; STRIP THE LAST RAD 50 CHARACTER  
9 001012 010146 MOV R1,-(SP) ; SAVE THE UNIT NUMBER  
10 001014 070027 000050 MUL #50,R0 ; GET THE DEVICE NAME SHIFTED  
11 001020 010157 0000000 MOV R1,R50BUF ; AND STORE BACK INTO THE RAD 50 BUFFER  
12 001024 012601 MOV (SP)+,R1 ; GET THE UNIT NUMBER  
13 001026 001407 BEQ 2\$ ; BR IF NO UNIT NUMBER WAS SPECIFIED  
14 001030 162701 000036 SUB #36,R1 ; NORMALIZE TO ZERO  
15 001034 002450 BLT SETIVD ; ERROR IF LESS THAN ZERO  
16 001036 020127 000007 CMP R1,#7 ; CHECK UNIT RANGE  
17 001042 003045 BGT SETIVD ; ERROR IF GREATER THAN SEVEN  
18 001044 000402 BR 3\$ ; CONTINUE  
19 001046 012701 100000 2\$: MOV #100000,R1 ; SET NO UNIT WAS SPECIFIED FLAG  
20 001052 010167 0000000 3\$: MOV R1,DEVUNT ; SAVE THE UNIT SPECIFIED  
21 001056 122327 000072 CMPB (R3)+,#': ; WAS DEVICE NAME FOLLOWED BY COLON?  
22 001062 001401 BEQ 4\$ ; BR IF YES  
23 001064 005303 DEC R3 ; BACKUP POINTER  
24 ;  
25 ; Lookup the handler file and read in the first 2 blocks.  
26 ;  
27 001066 016767 0000000 0000020 4\$: MOV R50BUF,HNBUF+2 ; SET UP HANDLER NAME  
28 001074 . LOOKUP #XAREA,#HANCHN,#HNBUF; TRY TO LOOKUP HANDLER FILE  
29 001114 103420 BCS SETIVD ; BR IF CAN'T FIND HANDLER  
30 001116 . READW #XAREA,#HANCHN,#BLKO,#512.,#0 ; READ IN 1ST 2 BLOCKS  
31 001154 103007 BCC SETCKP ; Branch if read ok  
32 ;  
33 ; Invalid device name.  
34 ;  
35 001156 SETIVD: . PURGE #HANCHN ; MAKE SURE CHANNEL IS CLOSED  
36 001164 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 001174 . SETCKP: . SAVEST #XAREA,#HANCHN,#HANSAV ; Save channel status in HANSAV  
42 001214 032767 0000000 0000000 BIT #PO\$OPR,PRIVCO ; Is user privileged?  
43 001222 001007 BNE NXTOPT ; Br if yes  
44 001224 . PURGE #HANCHN ; Close handler channel  
45 001232 FABORT #EM\$OPR ; Not-privileged error message

```

1 ; Accrue the set option word.
2 ;
3
4 001242 105067 0000000 ; Accrue the set option word.
5 001246 004767 0000000 ; NXTOPT: CLR B NOFLAG ; RESET THE "NO" OPTION FLAG
6 ; CALL SKPSPC ; SKIP OVER ANY SPACES
7 001252 010302 ; Check for "NO" preceding the option word.
8 001254 004767 0000000 ; MOV R3, R2 ; SAVE COMMAND STRING POINTER
9 001260 120027 000116 ; CALL GETKCH ; GET NEXT COMMAND CHARACTER
10 001264 001012 ; CMPB R0, #'N ; IS IT "N"?
11 001266 004767 0000000 ; BNE 7$ ; BR IF NOT
12 001272 120027 000117 ; CALL GETKCH ; CHECK NEXT CHARACTER
13 001276 001005 ; CMPB R0, #'O ; IS IT "O"?
14 001300 105267 0000000 ; BNE 7$ ; BR IF NOT
15 001304 004767 0000000 ; INC B NOFLAG ; REMEMBER "NO" SPECIFIED
16 001310 000401 ; CALL SKPSPC ; SKIP OVER SPACES FOLLOWING "NO"
17 001312 010203 ; BR 9$ ; ACCRUE AS A RAD50 VALUE
18 ; 7$: MOV R2, R3 ; RESET POINTER TO START OF OPTION WORD
19 001314 004767 0000000 ; ; Accrue the option word.
20 ; 9$: CALL GTRD50 ; ACCRUE AS A RAD50 VALUE
21 ;
22 ; Lookup the option word in the handler header.
23 001320 012704 0004000 ; SETOPT: MOV #BLKO+400, R4 ; POINT TO START OF HANDLER TABLE OF SET OPTIONS
24 001324 005764 0000000 ; 10$: TST SH$VAL(R4) ; HAVE WE REACHED THE END OF THE TABLE?
25 001330 001002 ; BNE 11$ ; CONTINUE CHECKING
26 001332 000167 177124 ; JMP INVLD0 ; BR IF YES -- CAN'T FIND OPTION WORD
27 001336 026764 0000000 0000000 ; 11$: CMP R50BUF, SH$NAM(R4) ; COMPARE NAME WITH THIS ENTRY
28 001344 001004 ; BNE 2$ ; BR IF MISMATCH
29 001346 026764 0000020 0000020 ; CMP R50BUF+2, SH$NAM+2(R4)
30 001354 001403 ; BEQ 9$ ; BR IF FOUND ENTRY FOR THIS OPTION
31 001356 062704 0000000 ; 2$: ADD #SH$$SZ, R4 ; POINT TO NEXT OPTION ENTRY
32 001362 000760 ; BR 10$ ; CONTINUE SEARCH
33 ;
34 ; Found entry for this option.
35 ;
36 001364 116402 0000000 ; 9$: MOVB SH$RTN(R4), R2 ; GET OFFSET TO ROUTINE TO CALL
37 001370 042702 177400 ; BIC #^C377, R2 ; CLEAR SIGN EXTENSION
38 001374 006302 ; ASL R2 ; CONVERT FROM WORD TO BYTE OFFSET
39 001376 062702 0004000 ; ADD #BLKO+400, R2 ; ADD BASE ADDRESS
40 ;
41 001402 105767 0000000 ; See if "NO" option is allowed.
42 001406 001410 ; TSTB NOFLAG ; WAS "NO" SPECIFIED WITH OPTION?
43 001410 132764 0000000 0000000 ; BEQ 3$ ; BR IF NOT
44 001416 001002 ; BITB #SO$NO, SH$FLG(R4) ; IS NO ALLOWED WITH THIS OPTION?
45 001420 000167 000464 ; BNE 14$ ; BR IF YES
46 001424 062702 000004 ; JMP SETIVS ; INVALID OPTION
47 ; See if option takes a numeric parameter.
48 001430 132764 0000000 0000000 ; 14$: ADD #4, R2 ; GET ADDRESS OF SET ROUTINE FOR NO-OPTION
49 001436 001430 ; BITB #SO$NVL, SH$FLG(R4) ; DOES OPTION REQUIRE A NUMERIC PARAMETER?
50 001440 004767 0000000 ; BEQ 4$ ; BR IF NOT
51 001444 122327 000075 ; CALL SKPSPC ; SKIP OVER ANY SPACES
52 001450 001401 ; CMPB (R3)+, #'=' ; IS OPTION WORD FOLLOWED BY EQUAL SIGN?
53 001452 005303 ; BEQ 7$ ; BR IF YES
54 001454 004767 0000000 ; DEC R3 ; BACKUP POINTER
55 001460 010305 ; 7$: CALL SKPSPC ; SKIP OVER ANY SPACES
56 001462 132764 0000000 0000000 ; MOV R3, R5 ; SAVE POINTER TO START OF NUMBER
57 001462 132764 0000000 0000000 ; BITB #SO$OCT, SH$FLG(R4) ; IS NUMERIC VALUE OCTAL?
58 001470 001004 ; BNE 6$ ; BR IF YES

```

```

58 001472 004767 0000006          CALL    ACRDEC      ; ACCRUE A DECIMAL VALUE
59 001476 000401?                 BR     5$          ;
60 001500 004767 0000006          6$:    CALL    ACROCT      ; ACCRUE AN OCTAL VALUE
61 001504 010100                  5$:    MOV     R1, R0      ; GET VALUE IN R0 FOR SET ROUTINE
62 001506 020305                  CMP     R3, R5      ; DID WE ACTUALLY GET A NUMBER?
63 001510 001002                  BNE     15$        ; BR IF YES
64 001512 000167 000372          JMP     SETIVS      ; BR IF NOT
65 001516 122327 000056          15$:   CMPB   (R3)+, #'.' ; WAS DECIMAL POINT SPECIFIED?
66 001522 001401                  BEQ     4$          ; BR IF YES
67 001524 005303                  DEC     R3          ; BACKUP POINTER
68
69
70
71
72
73 001526 010046                  4$:    MOV     R0, -(SP)   ; Save numeric parameter value
74 001530                      . PURGE #17       ; Purge channel 17 (KMON overlay channel)
75 001536                      . REOPEN #XAREA, #17, #HANSAV ; Open channel 17 to handler file
76 001556 012600                  MOV     (SP)+, R0    ; Restore numeric parameter value
77
78
79
80
81
82
83 001560 010346                  MOV     R3, -(SP)   ; SAVE COMMAND STRING POINTER
84 001562 016403 0000006          MOV     SH$VAL(R4), R3 ; GET VALUE FROM OPTION ENTRY
85 001566 016701 0000006          MOV     DEVUNT, R1   ; GET THE DEVICE UNIT SPECIFIED
86 001572 000241                  CLC
87 001574 00471?                 CALL    @R2        ; CALL SET PROCESSING ROUTINE IN HANDLER
88 001576 012603                  MOV     (SP)+, R3    ; RECOVER COMMAND STRING POINTER
89 001600 012702 000000          MOV     #0, R2      ; SAY NO ERROR (DON'T AFFECT C-FLAG)
90 001604 103001                  BCC    13$        ; BR IF NO ERROR OCCURRED
91 001606 00520?                 INC     R2          ; SET ERROR FLAG IN R2
92
93
94
95 001610                      13$:   . PURGE #17       ; Purge channel 17
96 001616                      . REOPEN #XAREA, #17, #KMNCN ; Reopen channel 17 to KMON
97 001636                      . REOPEN #XAREA, #HANCHN, #HANSAV ; Reopen HANCHN to handler
98 001656 00570?                TST     R2          ; Any error detected in handler?
99 001660 001113                  BNE     SETIVS      ; Br if yes
100
101
102
103 001662 004767 0000006          CALL    SKPSPC      ; SKIP SPACES
104 001666 112300                  MOVB   (R3)+, R0    ; GET NEXT CHAR
105 001670 001406                  BEQ     SETUP       ; BR IF REACHED END
106 001672 120027 000054          CMPB   R0, #'.'    ; IS COMMA THE DELIMITER?
107 001676 001401                  BEQ     12$        ; BR IF YES
108 001700 005303                  DEC     R3          ; BACKUP STRING POINTER
109 001702 000167 177334          12$:   JMP     NXTOPT     ; GO PROCESS THE NEXT OPTION

```

```
1 ;  
2 ; Finished with all options.  
3 ; Write updated handler back to its disk file.  
4 ;  
5 001706 SETUP: .WRITW #XAREA, #HANCHN, #BLKO, #512., #0  
6 001744 .CLOSE #HANCHN  
7 ;  
8 ; Now try to update the running handler in memory.  
9 ;  
10 001752 016702 0000000 MOV NUMDEV, R2 ; GET INDEX TO LAST DEVICE IN DEVICE TABLES  
11 001756 016700 0000020 MOV HNBUF+2, R0 ; Get device name  
12 001762 020062 0000000 1$: CMP R0, PNAME(R2) ; LOOKUP DEVICE NAME  
13 001766 001412 BEQ 3$ ; BR IF FOUND  
14 001770 162702 000002 SUB #2, R2 ; MORE ENTRIES TO CHECK?  
15 001774 003372 BGT 1$ ; BR IF YES  
16 001776 FWARN #EM$HNI ; Warn that handler is not installed  
17 002012 000434 BR 2$  
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 002014 032762 0000000 0000000 3$: BIT #DX$NST, DVFLAG(R2); Are we allowed to reload running handler?  
23 002022 001407 BEQ 4$ ; Br if yes  
24 002024 FWARN #TM$MRS ; Tell user that he must reboot the system  
25 002040 000421 BR 2$  
26 002042 012700 0000000 4$: MOV #HUPARG, R0 ; POINT TO ARG BLOCK FOR UPDATE INFO  
27 002046 010260 000004 MOV R2, 4(R0) ; SET DEVICE INDEX NUMBER  
28 002052 005067 0010060 CLR BLKO+1006 ; Clear LQE in handler image  
29 002056 005067 0010100 CLR BLKO+1010 ; Clear CQE in handler image  
30 002062 012760 0010000 0000006 MOV #BLKO+1000, 6(R0); SET ADDRESS OF START OF NEW HANDLER CODE  
31 002070 104375 EMT 375 ; TRY TO UPDATE RUNNING HANDLER  
32 002072 103004 BCC 2$ ; BR IF SUCCESSFUL  
33 002074 FABORT #HANBSY ; HANDLER WAS ACTIVE  
34 002104 000167 0000000 2$: JMP RDCMD ; FINISHED  
35 ;  
36 ; Invalid command  
37 ;  
38 002110 SETIVS: .PURGE #HANCHN ; MAKE SURE CHANNEL IS CLOSED  
39 002116 FABORT #CSIMS1
```

1 ;  
2 ; Process options which only involve setting/resetting flags.  
3 ;  
4 ; Set a bit in a user table  
5 ;  
6 002126 004767 0000000 PRVSET: CALL CKPRIV ;REQUIRE PRIVILEGE  
7 002132 012405 0000000 SETBIT: MOV (R4)+, R5 ;POINT TO TABLE  
8 002134 060105 0000000 ADD R1, R5 ;POINT TO TABLE ENTRY FOR THIS USER  
9 002136 051415 0000000 BIS @R4, @R5 ;SET THE DESIRED FLAG  
10 002140 000167 0000000 JMP RDCMD  
11 ;  
12 ; Reset a bit in a user table  
13 ;  
14 002144 004767 0000000 PRVCLR: CALL CKPRIV ;REQUIRE PRIVILEGE  
15 002150 012405 0000000 CLRBIT: MOV (R4)+, R5 ;POINT TO TABLE  
16 002152 060105 0000000 ADD R1, R5 ;POINT TO TABLE ENTRY FOR THIS USER  
17 002154 041415 0000000 BIC @R4, @R5 ;RESET THE DESIRED FLAG  
18 002156 000167 0000000 JMP RDCMD  
19 ;  
20 ; Routine to store a value into a word cell  
21 ;  
22 002162 012405 0000000 STRWRD: MOV (R4)+, R5 ;POINT TO WORD  
23 002164 011415 0000000 MOV (R4), (R5) ;SET VALUE IN WORD  
24 002166 000167 0000000 JMP RDCMD  
25 ;  
26 ; Routine to accrue a byte value and store it into a line table.  
27 ;  
28 002172 122327 000075 SETBYT: CMPB (R3)+, #'= ;EQUAL SIGN SHOULD BE NEXT CHAR  
29 002176 001014 0000000 BNE NOEQL ;BR IF ERROR  
30 002200 122327 000040 2\$: CMPB (R3)+, #' ' ;SKIP INTERVENING SPACES  
31 002204 001775 0000000 BEQ 2\$  
32 002206 005303 0000000 DEC R3  
33 002210 004767 0000000 CALL ACRDEC ;ACCRUE THE DECIMAL VALUE  
34 002214 116702 0000000 MOVB CORUSR, R2 ;GET LINE INDEX #  
35 002220 061402 0000000 ADD @R4, R2 ;POINT TO LINE ENTRY IN TABLE  
36 002222 110112 0000000 MOVB R1, @R2 ;STORE VALUE INTO TABLE  
37 002224 000167 0000000 JMP RDCMD  
38 ;  
39 002230 ; NOEQL: FABORT #MISSEQ ;MISSING EQUAL SIGN  
40 ;  
41 ; Set EDIT EDIT  
42 ;  
43 002240 042761 000000C 0000000 SEEDIT: BIC #\$TECO!\$KED, LSW5(R1)  
44 002246 000167 0000000 JMP RDCMD  
45 ;  
46 ; Set EDIT TECO  
47 ;  
48 002252 042761 0000000 0000000 SETECO: BIC #\$KED, LSW5(R1)  
49 002260 052761 0000000 0000000 BIS #\$TECO, LSW5(R1)  
50 002266 000167 0000000 JMP RDCMD  
51 ;  
52 ; SET EDIT KED/K52  
53 ;  
54 002272 ; SEK52:  
55 002272 042761 0000000 0000000 SEKED: BIC #\$TECO, LSW5(R1)  
56 002300 052761 0000000 0000000 BIS #\$KED, LSW5(R1)  
57 002306 000167 0000000 JMP RDCMD

58 ;  
59 ; SET UCL FIRST  
60 ;  
61 002312 052761 0000000 0000000 STUCLF: BIS ##\$UCLCF, LSW7(R1); Set UCL-first flag  
62 002320 042761 000000C 0000000 BIC #<\$UCLCM!\$UCLCLD>, LSW7(R1) ;Clear call-middle & call-last flags  
63 002326 000167 0000000 JMP RDCMD  
64 ;  
65 ; SET UCL MIDDLE  
66 ;  
67 002332 052761 0000000 0000000 STUCLM: BIS ##\$UCLCM, LSW7(R1); Set UCL-middle flag  
68 002340 042761 000000C 0000000 BIC #<\$UCLCF!\$UCLCLD>, LSW7(R1) ;Clear call-first & call-last flags  
69 002346 000167 0000000 JMP RDCMD  
70 ;  
71 ; SET UCL LAST  
72 ;  
73 002352 052761 0000000 0000000 STUCLL: BIS ##\$UCLCL, LSW7(R1); Set UCL-last flag  
74 002360 042761 000000C 0000000 BIC #<\$UCLCF!\$UCLCMD>, LSW7(R1) ;Clear call-first & call-middle flag  
75 002366 000167 0000000 JMP RDCMD  
76 ;  
77 ; SET UCL NONE  
78 ;  
79 002372 042761 000000C 0000000 STUCLN: BIC #<\$UCLCF!\$UCLCM!\$UCLCLD>, LSW7(R1) ;Clear all UCL-call flags  
80 002400 000167 0000000 JMP RDCMD  
81 ;  
82 ; SET KMON IND  
83 ;  
84 002404 005767 0000000 SETIND: TST INDSAV ; IS IND AVAILABLE?  
85 002410 001432 BEQ I\$ ; BR IF NOT  
86 002412 052761 0000000 0000000 BIS ##INDDF, LSW5(R1); SAY WE SHOULD USE IND  
87 002420 . GVAL #XAREA, #<CFSTS-MONVEC> ; GET CURRENT COMMAND FILE FLAGS  
88 002440 010002 MOV R0, R2  
89 002442 052702 0000000 BIS #CF\$IND, R2 ; SET IND FLAG  
90 002446 . PVAL #XAREA, #<CFSTS-MONVEC>, R2; STORE UPDATED FLAGS  
91 002472 000167 0000000 JMP RDCMD  
92 002476 I\$: FABORT #NOIND  
93 ;  
94 ; SET KMON NO IND  
95 ;  
96 002506 042761 0000000 0000000 RSTIND: BIC ##INDDF, LSW5(R1); CLEAR IND FLAG  
97 002514 . GVAL #XAREA, #<CFSTS-MONVEC> ; GET CURRENT COMMAND FILE FLAGS  
98 002534 010002 MOV R0, R2  
99 002536 042702 0000000 BIC #CF\$IND, R2 ; RESET IND FLAG  
100 002542 . PVAL #XAREA, #<CFSTS-MONVEC>, R2; STORE UPDATED FLAGS  
101 002566 000167 0000000 JMP RDCMD

TSKST1 -- Keyboard SET Command MACRO V05.04 Monday 21-Dec-87 12:57 Page 15  
Prompt

```
1 .SBTTL . Prompt
2 ;-----
3 ; SET PROMPT string
4 ;
5 002572 SETPRT:
6 ;
7 ; Skip any leading spaces in front of prompt string
8 ;
9 002572 004767 0000000 CALL SKPSPC
10 002576 012704 0000000 MOV #KMPRMT, R4 ;Point to prompt holder in context block
11 ;
12 ; Determine if prompt string is enclosed in quotes
13 ;
14 002602 111300 MOVB (R3), R0 ;Get first char of prompt string
15 002604 120027 000047 CMPB R0, #47 ;Is string enclosed in " " characters?
16 002610 001403 BEQ 2$ ;Br if yes
17 002612 120027 000042 CMPB R0, #42 ;How about " " ?
18 002616 001007 BNE 3$ ;Br if not
19 ;
20 ; String is enclosed in quotes
21 ;
22 002620 004767 0000000 2$: CALL ACRSTR ;Accrue the string
23 002624 010002 MOV R0, R2 ;Get length of the string
24 002626 001417 BEQ 6$ ;Br if string is empty
25 002630 012703 0000000 MOV #BLKO, R3 ;Point to buffer with string
26 002634 000403 BR 10$ ;String length
27 ;
28 ; String is not enclosed in quotes
29 ;
30 002636 020302 3$: CMP R3, R2 ;Anything in prompt string?
31 002640 103012 BHIS 6$ ;Br if not
32 002642 160302 SUB R3, R2 ;Determine length of prompt string
33 ;
34 ; Make sure string is not too long
35 ;
36 002644 020227 0000000 10$: CMP R2, #MXPRMT ;Is string too long?
37 002650 101411 BLOS 5$ ;Br if ok
38 002652 FERR #BADPMT ;Prompt string too long
39 002666 112724 000056 6$: MOVB #'., (R4)+ ;Set prompt to "."
40 002672 000402 BR 8$ ;String length
41 ;
42 ; Set prompt string
43 ;
44 002674 112324 5$: MOVB (R3)+, (R4)+ ;Move prompt string to KMON context block
45 002676 077202 SOB R2, 5$ ;String length
46 002700 112714 000200 8$: MOVB #200, (R4) ;Terminate the prompt string
47 ;
48 ; Finished
49 ;
50 002704 000167 0000000 9$: JMP RDCMD ;Go get next command
```

TSKST1 -- Keyboard SET Command MACRO V05.04 Monday 21-Dec-87 12:57 Page 16  
Syspassword

```
1 .SBTTL . Syspassword
2 ; -----
3 ; SET SYSPASSWORD command
4 ;
5 002710 SETSYPP:
6 ;
7 ; User must have SYSPRV privilege
8 ;
9 002710 004767 000000G CALL CKSYPPV ;Make sure user has SYSPRV privilege
10 ;
11 ; Accrue the password string
12 ;
13 002714 004767 000000G CALL ACRTXT ;Accrue the text string
14 ;
15 ; Make sure it's not too long
16 ;
17 002720 020027 000024 CMP R0, #20. ;Compare with max legal length
18 002724 101404 BLOS 1$ ;Br if ok
19 002726 FABORT #EM$SPL ;Password string is too long
20 ;
21 ; Move password to password buffer
22 ;
23 002736 012702 000000G 1$: MOV #BLKO, R2 ;Point to accrued password
24 002742 012703 000000G MOV #SYPSWD, R3 ;Point to system buffer
25 002746 112223 2$: MOVB (R2)+, (R3)+ ;Move password string
26 002750 001376 BNE 2$ ;Loop if more to move
27 ;
28 ; Finished
29 ;
30 002752 000167 000000G JMP RDCMD
```

TSKST1 -- Keyboard SET Command MACRO V05.04 Monday 21-Dec-87 12:57 Page 17  
Endstartup

1 .SBTTL . Endstartup  
2 ;-----  
3 ; SET ENDSTARTUP command  
4 ; (Signal end of privileged portion of start-up command file)  
5 ;  
6 002756 042761 0000000 0000000 SETESU: BIC ##NOIN,LSW3(R1) ;Allow input to be accepted for line  
7 002764 042761 0000000 0000000 BIC ##SUCF,LSW9(R1) ;Say not in start-up command file  
8 002772 000167 0000000 JMP RDCMD

```
1 .SBTTL . Window
2 ;-----+
3 ; SET WINDOW command
4 ;
5 002776
6 ;
7 ; User must be authorized to create global regions in order to use windows
8 ;
9 002776 032767 0000000 0000000 BIT #P2$CCR,PRIVC2 ;May job create global regions?
10 003004 001004 BNE 10$ ;Br if yes
11 003006 FABORT #EM$WCM ;Not privileged to do this
12 ;
13 ; Initialize some cells
14 ;
15 003016 112767 000120 175046 10$: MOV #80.,WINMAK+4 ;Set window width to 80 columns
16 003024 112767 000020 175041 MOV #16.,WINMAK+5 ;Set default max scroll lines
17 003032 005067 174760 CLR WINFLG ;No flags yet
18 ;
19 ; Do command parsing
20 ;
21 003036 012704 001420' MOV #WINHD,R4 ;Point to option driver list
22 003042 004767 0000000 CALL SCNOPS ;Process all command options
23 ;
24 ; Now see which options were specified
25 ;
26 003046 016705 174744 12$: MOV WINFLG,R5 ;Pick up option flags
27 ;
28 ; See if OFF was specified
29 ;
30 003052 032705 000001 BIT #WFDEL,R5 ;Was OFF option specified?
31 003056 001404 BEQ 1$ ;Br if not
32 003060 012700 000104' MOV #WINDEL,R0 ;Delete the window
33 003064 104375 EMT 375
34 003066 000455 RR 20$
35 ;
36 ; If WIDE option was specified, set window width to 132 columns
37 ;
38 003070 032705 000010 1$: BIT #WF132,R5 ;Was WIDE option specified?
39 003074 001403 BEQ 2$ ;Br if not
40 003076 112767 000204 174766 MOV #132.,WINMAK+4 ;Set window width to 132 columns
41 ;
42 ; Try to make the window
43 ;
44 003104 032761 000000C 0000000 2$: BIT #<VT100!VT200!VT52>,LTRMTP(R1) ;VT100, VT200 or VT52
45 003112 001004 BNE 13$ ;Br if yes
46 003114 FABORT #EM$SLT ;Invalid terminal type
47 003124 012700 000066' 13$: MOV #WINMAK,R0 ;Point to window-make arg block
48 003130 104375 EMT 375 ;Try to create the window
49 003132 103435 BCS 30$ ;Br if error on window creation
50 ;
51 ; Select the window
52 ;
53 003134 012700 000100' MOV #WINMAP,R0 ;EMT to map to the window
54 003140 104375 EMT 375
55 ;
56 ; If WIDE was specified, send string to put term in 132 col mode
57 ;
```

```

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      Window

58 003142 032705 000010          BIT    #WF132,R5       ;Was WIDE option specified?
59 003146 001403          BEQ    3$           ;Br if not
60 003150                      .PRINT #TC132        ;Put terminal in 132 column mode
61
62                      ; If NARROW was specified, send string to put term in 80 col mode
63
64 003156 032705 000020          3$:   BIT    #WF80,R5       ;Was NARROW option specified?
65 003162 001403          BEQ    4$           ;Br if not
66 003164                      .PRINT #TC80        ;Put terminal in 80 column mode
67
68                      ; If REVERSE was specified, put terminal in reverse video mode
69
70 003172 032705 000002          4$:   BIT    #WFREV,R5      ;Was REVERSE option specified?
71 003176 001403          BEQ    5$           ;Br if not
72 003200                      .PRINT #TCREV        ;Put terminal in reverse video mode
73
74                      ; If NORMAL was specified, put terminal in normal video mode
75
76 003206 032705 000004          5$:   BIT    #WFNORM,R5     ;Was NORMAL option specified?
77 003212 001403          BEQ    20$          ;Br if not
78 003214                      .PRINT #TCNORM        ;Put terminal in normal video mode
79
80                      ; Finished
81
82 003222 000167 0000006         20$:  JMP    RDcmd
83
84                      ; Error occurred which making window
85
86 003226 113702 0000006         30$:  MOVB   @#ERRLOC,R2      ;Get EMT error code
87 003232 020227 000004          CMP    R2, #MAXWEM      ;Is it too large?
88 003236 103401                      BLO    31$           ;Br if not
89 003240 005002                      CLR    R2            ;Use message for error 0 if too big
90 003242 006302          31$:  ASL    R2            ;Get word table index
91 003244 016202 003256'          MOV    WEM(R2),R2      ;Get address of error message
92 003250                      FABORT R2           ;Print the error message
93
94                      ; Table of window-creation error messages
95
96 003256 0000006          WEM:   WORD   EM$WC0
97 003260 0000006          .WORD   EM$WC1
98 003262 0000006          .WORD   EM$WC2
99 003264 0000006          .WORD   EM$WC3
100 000004             MAXWEM = <.-WEMD>/2

```

```
1 ;-----  
2 ; Process COLUMN=n option of SET WINDOW command  
3 ;  
4 003266 010146 WINCOL: MOV R1,-(SP)  
5 ;  
6 ; Accrue the column parameter value  
7 ;  
8 003270 004767 0000000 CALL ACRDEC  
9 ;  
10 ; Store into EMT argument block  
11 ;  
12 003274 110167 174572 MOVB R1,WINMAK+4 ; Set column width in EMT arg block  
13 ;  
14 ; Finished  
15 ;  
16 003300 01260J MOV (SP)+,R1  
17 003302 000207 RETURN  
18 ;-----  
19 ; Process SCROLL[=n] option which specifies the maximum number  
20 ; of scroll lines.  
21 ;  
22 003304 010146 WINSCHR: MOV R1,-(SP)  
23 ;  
24 ; If no parameter is specified, allow unlimited scrolling  
25 ;  
26 003306 004767 0000000 CALL SKPSPC ; Skip over spaces  
27 003312 121327 000075 CMPB (R3),#'= ; Value specified?  
28 003316 00100J BNE 3$ ; If not, allow unlimited  
30 ;  
31 ; Accrue the parameter value  
32 ;  
33 003320 004767 0000000 1$: CALL ACRDEC ; Accrue decimal parameter  
34 003324 020127 000177 CMP R1,#127. ; Asked for more than max?  
35 003330 101402 BLOS 2$ ; If not, set the requested number  
36 003332 012701 177777 3$: MOV #-1,R1 ; Allow unlimited scrolling  
37 ;  
38 ; Store value into EMT argument block  
39 ;  
40 003336 110167 174531 2$: MOVB R1,WINMAK+5 ; Set max scroll lines  
41 ;  
42 ; Finished  
43 ;  
44 003342 01260J MOV (SP)+,R1  
45 003344 000207 RETURN  
46 ;-----  
47 ; SET WINDOW/NOSCROLL  
48 ;  
49 50 003346 105067 174521 WINNOS: CLRB WINMAK+5 ; 0 scroll lines ==> No scrolling  
51 003352 000207 RETURN  
52 ;-----  
53 ; Process a SET WINDOW option that just sets a flag bit  
54 ;  
55 56 003354 051467 174436 WINBIT: BIS (R4),WINFLG ; Set appropriate flag bit  
57 003360 000207 RETURN
```

```
1 .SBTTL . Printwindow
2 ; -----
3 ; SET PRINTWINDOW/DEVICE=device/TYPE=type
4 ;
5 003362
6 ;
7 ; Process qualifiers specified with command
8 ;
9 003362 012704 001534' MOV #PRSHD, R4 ;Point to option driver list
10 003366 004767 0000006 CALL SCNOPS ;Process all of the command options
11 ;
12 ; Finished
13 ;
14 003372 000167 0000006 JMP RDCMD
15 ;
16 ; Process the /DEVICE=device qualifier
17 ;
18 003376 010246 PRSDEV: MOV R2, -(SP)
19 003400 004767 0000006 CALL CHKEQ ;Equal sign should follow qualifier name
20 003404 004767 0000006 CALL GTRD50 ;Accrue the device name
21 003410 122327 000072 CMPB (R3)+, #''; Colon specified with device name?
22 003414 001401 BEQ 1$ ;Br if yes
23 003416 005303 DEC R3 ;Backup pointer
24 003420 016767 0000006 0000006 1$: MOV R50BUF, JPWDEV ;Store into job context cell
25 003426 012602 MOV (SP)+, R2
26 003430 000207 RETURN
27 ;
28 ; Process the /TYPE=type qualifier
29 ;
30 003432 010446 PRSTYP: MOV R4, -(SP)
31 003434 004767 0000006 CALL CHKEQ ;Make sure we have an equal sign
32 003440 012704 001610' MOV #PWTHD, R4 ;Point to table of printer types
33 003444 004767 0000006 CALL SEARCH ;Accrue and look up printer name
34 003450 103406 BCS 1$ ;Br if invalid printer type
35 003452 111467 0000006 MOVB (R4), JPWTYP ;Set printer type code
36 003456 016467 000002 0000006 MOV 2(R4), JPWFLE ;Set printer attribute flags
37 003464 000417 BR 9$ ;Printer unrecognized or ambiguous?
38 003466 005704 1$: TST R4 ;Printer unrecognized or ambiguous?
39 003470 001407 BEQ 2$ ;Br if not recognized
40 003472 FERR #EM$PTA ;Printer type ambiguous
41 003506 000406 BR 9$ ;Printer type unrecognized
42 003510 2$: FERR #EM$PTU ;Printer type unrecognized
43 ;
44 ; Finished
45 ;
46 003524 012604 9$: MOV (SP)+, R4
47 003526 000207 RETURN
48 ;
49 ; Process the /LETTERQUALITY qualifier
50 ;
51 003530 052767 0000006 0000006 PRSLET: BIS #PA$LET, JPWFLE ;Set letter-quality flag
52 003536 000207 RETURN
53 ;
54 ; Process the /DRAFT qualifier
55 ;
56 003540 042767 0000006 0000006 PRSDRF: BIC #PA$LET, JPWFLE ;Clear letter-quality flag
57 003546 000207 RETURN
```

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Printwindow

```
58 ;  
59 ; Process the /BELL qualifier  
60 ;  
61 003550 052767 000000G 000000G PRSBEL: BIS #PA$BEL,JPWFLG ;Set bell flag  
62 003556 000207 RETURN  
63 ;  
64 ; Process the /NOBELL qualifier  
65 ;  
66 003560 042767 000000G 000000G PRSNBL: BIC #PA$BEL,JPWFLG ;Clear bell flag  
67 003566 000207 RETURN  
68 ;  
69 ; Process the /WIDTH qualifier  
70 ;  
71 003570 042767 000000G 000000G PRSWID: BIC #PA$NWD,JPWFLG ;Clear nowidth flag  
72 003576 000207 RETURN  
73 ;  
74 ; Process the /NOWIDTH qualifier  
75 ;  
76 003600 052767 000000G 000000G PRSNWD: BIS #PA$NWD,JPWFLG ;Set nowidth flag  
77 003606 000207 RETURN  
78 ;  
79 ; Process the /KEYPRINT qualifier  
80 ;  
81 003610 116701 000000G PRSKEY: MOVB CORUSR,R1 ;Get job index number  
82 003614 052761 000000G 000000G BIS #$PWKEY,LSW11(R1) ;Set KEYPRINT flag  
83 003622 000207 RETURN  
84 ;  
85 ; Process the /NOKEYPRINT qualifier  
86 ;  
87 003624 116701 000000G PRSNKY: MOVB CORUSR,R1 ;Get job index number  
88 003630 042761 000000G 000000G BIC #$PWKEY,LSW11(R1) ;Clear KEYPRINT flag  
89 003636 000207 RETURN
```

|    |        | .SBTTL .                                  | Priority   |
|----|--------|---|--|
| 1  |        | ; -----                                   |  |
| 2  |        | ; SET PRIORITY value                      |  |
| 3  |        | ; ;                                       |  |
| 4  |        | SETPRI: CALL ACRDEC ;Accrue decimal value |  |
| 5  | 003640 | 004767 0000006                            | CMP R1,#MAXPRI ;Is priority too large?                           |
| 6  | 003644 | 020127 0000006                            | BLOS 3\$ ;Br if ok   |
| 7  | 003650 | 101425                                    | 5\$: FERR #BADPRI ;Invalid priority value                        |
| 8  | 003652 |   | MOV #0,R5 ;Print minimum priority                                |
| 9  | 003666 | 012705 000000                             | CALL PRTDEC  |
| 10 | 003672 | 004767 0000006                            | .PRINT #TOTXT ;Print " to "                                      |
| 11 | 003676 |   | MOVB MXJPRI,R5 ;Print maximum priority                           |
| 12 | 003704 | 116705 0000006                            | CALL PRTDEC  |
| 13 | 003710 | 004767 0000006                            | .PRINT #CRLF ;End print line                                     |
| 14 | 003714 |   | BR 9\$   |
| 15 | 003722 | 000427                                    | 3\$: CMPB R1,MXJPRI ;Does it exceed max allowed for job?         |
| 16 | 003724 | 120167 0000006                            | BLOS 2\$ ;Br if ok   |
| 17 | 003730 | 101417                                    | FERR #HIPRI ;Priority is too high                                |
| 18 | 003732 |   | MOV B MXJPRI,R5 ;Get max allowed value                           |
| 19 | 003746 | 116705 0000006                            | CALL PRTDEC ;Display max priority                                |
| 20 | 003752 | 004767 0000006                            | .PRINT #CRLF   |
| 21 | 003756 |   | MOVB MXJPRI,R1 ;Get max allowed for job                          |
| 22 | 003764 | 116701 0000006                            | 2\$: MOV #PRIENT, R0 ;Point to EMT arg block to set job priority |
| 23 | 003770 | 012700 000062                             | MOV R1,2(R0) ;Store prio value into EMT arg block                |
| 24 | 003774 | 010160 000002                             | EMT 375 ;Set job priority  |
| 25 | 004000 | 104375                                    | 9\$: JMP RDCMD ;Go get next command                              |
| 26 | 004002 | 000167 0000006                            |  |

|    |        | .SBTTL .                | Maxpriority                                 |
|----|--------|-------------------------|---|
| 1  |        | ;                       |   |
| 2  |        | ;-----                  |   |
| 3  |        | ; SET MAXPRIORITY value |   |
| 4  |        | ;                       |   |
| 5  | 004006 | 004767                  | 0000006                                     |
| 6  | 004012 | 020127                  | 0000006                                     |
| 7  | 004016 | 101425                  |   |
| 8  | 004020 |                         |   |
| 9  | 004034 | 005000                  |   |
| 10 | 004036 | 004767                  | 0000006                                     |
| 11 | 004042 |                         |   |
| 12 | 004050 | 012705                  | 0000006                                     |
| 13 | 004054 | 004767                  | 0000006                                     |
| 14 | 004060 |                         |   |
| 15 | 004066 | 116701                  | 0000006                                     |
| 16 | 004072 | 120167                  | 0000006                                     |
| 17 | 004076 | 101404                  |   |
| 18 | 004100 |                         |   |
| 19 | 004110 | 110167                  | 0000006                                     |
| 20 | 004114 | 116702                  | 0000006                                     |
| 21 | 004120 | 126201                  | 0000006                                     |
| 22 | 004124 | 101405                  |   |
| 23 | 004126 | 012700                  | 000062'                                     |
| 24 | 004132 | 010160                  | 000002                                      |
| 25 | 004136 | 104375                  |   |
| 26 | 004140 | 000167                  | 0000006                                     |
|    |        | SETMPR: CALL ACRDEC     | ; Accrue decimal value                      |
|    |        | CMP R1, #MAXPRI         | ; Larger than max allowed?                  |
|    |        | BLOS 1\$                | ; Br if ok                                  |
|    |        | FERR #BADPRI            | ; Invalid priority value                    |
|    |        | CLR R0                  | ; Get minimum value                         |
|    |        | CALL PRTDEC             | ; Print minimum value                       |
|    |        | .PRINT #TOTXT           | ; Print " to "                              |
|    |        | MOV #MAXPRI, R5         | ; Get maximum value                         |
|    |        | CALL PRTDEC             | ; Print it                                  |
|    |        | .PRINT #CRLF            |   |
|    |        | MOVB VPRIDF, R1         | ; Set to default value                      |
|    |        | 1\$: CMPB R1, MXJPRI    | ; Is he attempting to increase the max pri? |
|    |        | BLOS 2\$                | ; Br if not                                 |
|    |        | FABORT #EM\$CIP         | ; Cannot increase maxpri                    |
|    |        | 2\$: MOVB R1, MXJPRI    | ; Set maximum job priority                  |
|    |        | MOVB CORUSR, R2         | ; Get current job index number              |
|    |        | CMPB LBSPRI(R2), R1     | ; Is current priority too high?             |
|    |        | BLOS 3\$                | ; Br if ok                                  |
|    |        | MOV #PRIEMT, R0         | ; Point to EMT arg block to set prio        |
|    |        | 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 004144 111467 000000G SETSEV: MOVB @R4,ERRSEV ;SET ERROR SEVERITY FOR USER
6 004150 111404 MOVB @R4,R4 ;GET ERROR SEVERITY LEVEL
7 004152 042704 177400 BIC #177400,R4 ;CLEAR HIGH ORDER BYTE
8 004156 052704 001400 BIS #3*400,R4 ;SET COMMAND FILE NESTING DEPTH
9 004162 PVAL #XAREA,#CCFABLY-MONVEC>,R4 ;SET ABORT LEVEL IN SIMUL RMON
10 004206 000167 000000G JMP RDCMD
11
12 .SBTTL . Shutdown
13 ; -----
14 ; Set the flag that says a system shutdown is being done.
15 ;
16 004212 004767 000000G SETSHT: CALL CKPRIV ;User must have privilege
17 004216 112767 177777 000000G MOVB #-1,STPFLG ;Say system shutdown taking place
18 004224 005067 000000G CLR BOTDEV ;Reboot from system disk
19 004230 000167 000000G JMP RDCMD
20
21 ; -----
22 ; Clear the flag that says a shutdown is taking place.
23 ;
24 004234 004767 000000G SETNSH: CALL CKPRIV ;User must have privilege
25 004240 105067 000000G CLRB STPFLG ;Say we are not doing a shutdown
26 004244 000167 000000G JMP RDCMD
```

```
1 .SBTTL . Log
2 ;-----;
3 ; Process the SET LOG command.
4 ;
5 004250 SETLOG:
6 ;
7 ; Accrue option keyword
8 ;
9 004250 012704 002270' MOV #STLGHD, R4 ;Point to keyword table
10 004254 004767 0000000 CALL SCNOPS ;Process command qualifiers
11 004260 000167 0000000 JMP RDCMD ;Finished with command
12 ;
13 ; SET LOG CLOSE
14 ;
15 004264 004767 0000000 STLGCL: CALL LOGCLS ;Close the log file
16 004270 000207 RETURN
17 ;
18 ; SET LOG CLEAN
19 ;
20 004272 010346 STLGCN: MOV R3, -(SP)
21 004274 032767 0000000 0000000 BIT #LF$OPN, LOGFLG ;Is the log file open now?
22 004302 001427 BEQ 9$ ;Br if not
23 004304 012767 0000000 0000000 MOV #LOGBUF, LOGPTR ;Reset buffer pointer
24 004312 005067 0000000 CLR LOGBLK ;Start writing at block 0
25 004316 012703 0000000 MOV #LOGCHN, R3 ;Get channel # used for log file
26 004322 016700 0000000 MOV CXTRMN, R0 ;Point to simulated RMON area
27 004326 062700 0000000 ADD #R$CHN, R0 ;Point to channel block for channel 0
28 004332 020327 000021 CMP R3, #17. ;Is this channel in extended chan area?
29 004336 103404 BLO 1$ ;Br if not
30 004340 162703 000021 SUB #17., R3 ;Get channel # relative to extended channels
31 004344 062700 000000C ADD #R$XCHN-R$CHN, R0 ;Point to 1st extended channel block
32 004350 070327 0000000 1$: MUL #CHNSIZ, R3 ;Get offset to block of interest
33 004354 060003 ADD R0, R3 ;Point to our channel block
34 004356 005063 0000000 CLR C, USED(R3) ;Say no data has been written to file
35 004362 012603 9$: MOV (SP)+, R3
36 004364 000207 RETURN
37 ;
38 ; SET LOG WRITE
39 ;
40 004366 052767 0000000 STLGWR: BIS #LF$WRT, LOGFLG ;Enable writes to log file
41 004374 000207 RETURN
42 ;
43 ; SET LOG NOWRITE
44 ;
45 004376 042767 0000000 0000000 STLGNW: BIC #LF$WRT, LOGFLG ;Disable log file
46 004404 000207 RETURN
47 ;
48 ; SET LOG INPUT
49 ;
50 004406 042767 0000000 0000000 STLGIN: BIC #LF$OUT, LOGFLG ;Clear output-logging flag
51 004414 052767 0000000 0000000 BIS #LF$IN, LOGFLG ;Set input-logging flag
52 004422 000207 RETURN
53 ;
54 ; SET LOG OUTPUT
55 ;
56 004424 042767 0000000 0000000 STLGOT: BIC #LF$IN, LOGFLG ;Clear input-logging flag
57 004432 052767 0000000 0000000 BIS #LF$OUT, LOGFLG ;Set output-logging flag
```

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Log

```
58 004440 000207           RETURN
59
60
61
62 004442 052767 000000C 000000G STLGAL: BIS    #LF$IN!LF$OUT, LOGFLG ; Log both input and output
63 004450 000207           RETURN
```

```
1 ;  
2 ; SET LOG FILE=file-spec  
3 ;  
4 004452 010446 STLGFL: MOV R4,-(SP) ;  
5 004454 010546 MOV R5,-(SP) ;  
6 004456 004767 000000G CALL LOGCLS ;Close current log file  
7 004462 004767 000000G CALL SKPSPC ;Skip over spaces  
8 004466 122327 000075 CMPB (R3)+,#'=' ;See if equal sign was specified  
9 004472 001401 BEQ 1$ ;Br if yes (skip over it)  
10 004474 005303 DEC R3 ;Point back to first char of file spec  
11 ;  
12 ; Accrue the file spec  
13 ;  
14 004476 012704 000000G 1$: MOV #R50LOG,R4 ;Point to default extension ("LOG")  
15 004502 012705 000001 MOV #1,R5 ;Tell ACRFIL this is an output file  
16 004506 004767 000000G CALL ACRFIL ;Accrue the file spec  
17 004512 103475 BCS 10$ ;Br if invalid file spec  
18 ;  
19 ; Translate logical device name to physical  
20 ;  
21 004514 012705 000000G MOV #FILNAM,R5 ;Point to file name buffer  
22 004520 004767 000000G CALL LOGASN ;Perform logical name translation  
23 ;  
24 ; Don't allow log output to go to "TT:"  
25 ;  
26 004524 016700 000000G MOV FILNAM, R0 ;Get the log device name  
27 004530 004767 000000G CALL CHKTTD ;Is the log device TT?  
28 004534 103464 BCS 10$ ;Br if yes -- Error  
29 ;  
30 ; Try to open the file  
31 ;  
32 004536 . ENTER #XAREA, #LOGCHN, #FILNAM, FILNAM+8.  
33 004564 103004 BCC 2$ ;Br if enter ok  
34 004566 FABORT #BDLGOP ;Cannot open log file  
35 ;  
36 ; Save information about the log file physical device  
37 ;  
38 004576 016705 000000G 2$: MOV FILNAM,R5 ;Get log file device name  
39 004602 004767 000000G CALL CHKDEV ;Convert to dev # and unit #  
40 004606 103421 BCS 3$ ;Br if invalid device  
41 004610 020467 000000G CMP R4, LDDEVX ;Is log file on a logical disk?  
42 004614 001407 BEQ 4$ ;Br if yes  
43 004616 110467 000000G MOVB R4, LOGDVU ;Save log file device #  
44 004622 110067 0000010 MOVB R0, LOGDVU+1 ;Save log file unit #  
45 004626 005067 0000000 CLR LOGBAS ;Say not on a logical disk  
46 004632 000407 BR 3$  
47 004634 006300 4$: ASL R0 ;Convert unit # to word table index  
48 004636 016067 0000000 0000000 MOV LDPDEV(R0), LOGDVU ;Save physical device and unit #  
49 004644 016067 0000000 0000000 MOV LDBASE(R0), LOGBAS ;Save base block # of logical disk  
50 ;  
51 ; Set "hold" mode for spooled log files  
52 ;  
53 004652 012700 000000G 3$: MOV #SPLHLA,R0 ;Point to emt argument block  
54 004656 104375 ENT 375 ;Set hold mode for log file  
55 ;  
56 ; Initialize the log file  
57 ;
```

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Log

```
58 004660 052767 000000C 000000G      BIS      #<LF$OPN!LF$WRT!LF$IN!LF$OUT>, LOGFLG ; Say log file is open
59 004666 012767 000000G 000000G      MOV      #LOGBUF, LOGPTR ; Init pointer to log buffer
60 004674 005067 000000G      CLR      LOGBLK          ; Write to block 0
61
62
63
64 004700 012605      MOV      (SP)+, R5
65 004702 012604      MOV      (SP)+, R4
66 004704 000207      RETURN
67
68
69
70 004706      10$:    FABORT  #BDFNAM          ; Invalid file name
```

```
1 .SBTTL . Logoff
2 ; -----
3 ; Process the SET LOGOFF command.
4 ; This command is used to declare a logoff command file.
5 ;
6 004716
7
8 ; Accrue option keyword
9
10 004716 012704 002334' MOV #STLOHD, R4 ;Point to keyword table
11 004722 004767 0000000 CALL SEARCH ;Identify keyword
12 004726 103002 0000000 BCC 1$ ;Br if identified keyword
13 004730 000167 173512 JMP BDSO ;Invalid option
14
15 ; Enter keyword processing routine
16
17 004734 000134 1$: JMP @(R4)+ ;Enter keyword processing routine
18
19 ; SET LOGOFF FILE=file-spec
20
21 001736 032761 0000000 0000000 STLOFL: BIT ##$UCF, LSW9(R1) ;Are we in a startup command file?
22 004744 001010 BNE 1$ ;Br if yes
23 004746 032767 0000000 0000000 BIT #PO$SYS, PRIVCO ;Do we have SYSPRV privilege?
24 004754 001004 BNE 1$ ;Br if yes
25 004756 FABORT #EM$NSF ;Not in a startup command file
26
27 ; Accrue the file spec
28
29 004766 004767 0000000 1$: CALL SKPSPC ;Skip over spaces
30 004772 122327 000075 CMPB (R3)+, #'=' ;Should have equal sign
31 004776 001401 BEQ 3$ ;Br if yes (skip over it)
32 005000 005303 DEC R3 ;Point to 1st char of file name
33 005002 012704 0000000 3$: MOV #R50COM, R4 ;Set "COM" as default extension
34 005006 005005 CLR R5 ;Tell ACRFIL this is an input file
35 005010 004767 0000000 CALL ACRFIL ;Accrue the file spec
36 005014 103414 BCS 10$ ;Br if invalid file spec
37
38 ; Translate logical file device name to physical device
39
40 005016 012705 0000000 MOV #FILNAM, R5 ;Point to file spec
41 005022 004767 0000000 CALL LOGASN ;Perform any logical device assignment
42
43 ; Move file spec to job context block
44
45 005026 012705 0000000 MOV #FILNAM, R5 ;Point to file spec
46 005032 012704 0000000 MOV #LOFSPC, R4 ;Point to job context area
47 005036 012700 000004 MOV #4, R0 ;Get # words to move
48 005042 012524 2$: MOV (R5)+, (R4)+ ;Move file spec to job context block
49 005044 077002 S0B R0, 2$ ;R0, 2$
50
51 ; Finished
52
53 005046 000167 0000000 JMP RDCMD
54
55 ; Invalid file spec
56
57 005052 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 005062
8 ;
9 ; Accrue option keyword
10 ;
11 005062 012704 002344' MOV #SBPHD, R4 ;Point to keyword table
12 005066 004767 0000000 CALL SCNOPS ;Process the options
13 005072 000167 0000000 JMP RDCMD
14 ;
15 ; SET SUBPROCESS/FILE=file-spec
16 ;
17 005076 010446 SBPFIL: MOV R4, -(SP)
18 005100 010546 MOV R5, -(SP)
19 ;
20 ; This command is only legal within a start-up command file
21 ;
22 005102 032761 0000000 0000000 BIT ##$UCF, LSW?(R1) ;Are we in a startup command file?
23 005110 001010 BNE 1$ ;Br if yes
24 005112 032767 0000000 0000000 BIT #PO$SYS, PRIV0 ;Do we have SYSPRV privilege?
25 005120 001004 BNE 1$ ;Br if yes
26 005122 FABORT #EM$NSF ;Not in a startup command file
27 ;
28 ; Accrue the file spec
29 ;
30 005132 004767 0000000 1$: CALL ACRTXT ;Accrue the file string
31 005136 020027 000017 CMP R0, #15. ;Compare with max legal length
32 005142 101404 BLOS 3$ ;Br if ok
33 005144 FABORT #EM$STL ;File spec is too long
34 ;
35 ; Move file spec to job context block
36 ;
37 005154 012705 0000000 3$: MOV #BLKO, R5 ;Point to file spec
38 005160 012704 0000000 MOV #SBPSUF, R4 ;Point to job context area
39 005164 112524 2$: MOVB (R5)+, (R4)+ ;Move file spec to job context block
40 005166 001376 BNE 2$ ;Loop till all moved
41 ;
42 ; Finished
43 ;
44 005170 012605 MOV (SP)+, R5
45 005172 012604 MOV (SP)+, R4
46 005174 000207 RETURN
47 ;
48 ; Invalid file spec
49 ;
50 005176 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 005206
8 ;
9 ; See if user specified a file spec
10 ;
11 005206 004767 0000006 CALL SKPSPC ; Skip over any spaces
12 005212 105713 TSTB (R3) ; Anything specified following "USER"?
13 005214 001417 BEQ 2$ ; Br if not
14 005216 122327 000075 CMPB (R3)+, #'= ; Equal sign?
15 005222 001053 BNE 3$ ; Error if not
16 ;
17 ; Accrue the user file name
18 ;
19 005224 012704 0000006 MOV #R50SAV, R4 ; Set default extension
20 005230 005005 CLR R5 ; Tell ACRFIL this is an input file
21 005232 004767 0000006 CALL ACRFIL ; Accrue the file spec
22 005236 103451 BCS 4$ ; Br if invalid file spec
23 005240 012704 0000006 MOV #FILNAM, R4 ; Point to area with file spec
24 005244 010405 MOV R4, R5
25 005246 004767 0000006 CALL LOGASN ; Convert logical device name to physical
26 005252 000404 BR 6$
27 ;
28 ; User did not specify a file name. Default to "SY:UKMON.SAV".
29 ;
30 005254 012704 0000006 2$: MOV #UCIDEF, R4 ; Point to default file spec
31 005260 016714 0000006 MOV SYNAME, (R4) ; Set physical SY device
32 ;
33 ; Move file spec to UCISPC area in context block
34 ;
35 005264 012700 000004 6$: MOV #4, R0 ; Get # words to move
36 005270 012705 0000006 MOV #UCISPC, R5 ; Store UCI file spec here
37 005274 012429 5$: MOV (R4)+, (R5)+ ; Move file spec to job context block
38 005276 077002 SOB R0, 5$
39 ;
40 ; Try to lookup the specified file
41 ;
42 005300 103410 . LOOKUP #XAREA, #1, #UCISPC; Try to find command processor program
43 005320 103410 BCS 1$ ; Br if not available
44 005322 . CLOSE #1 ; Close the program file
45 005330 052761 0000006 0000006 BIS #$_UKMON, LSW7(R1); Set flag saying to use user-written program
46 005336 000167 0000006 JMP RDCMD
47 ;
48 ; Error processing
49 ; Cannot find specified file
50 ;
51 005342 1$: FABORT #EM$NUK ; User-written command processor not available
52 ;
53 ; Invalid syntax
54 ;
55 005352 3$: FABORT #MISSEQ
56 ;
57 ; Invalid file spec
```

TSKST1 -- Keyboard SET Command MACRO V05.04 Monday 21-Dec-87 12:57 Page 28-1  
Kmon

58  
59 005362

4\$: FABORT #BDFNAM

Kmon

```

1          ; -----
2          ; Process the SET KMON NEW command.
3          ; Begin to use a new version of TSKMON.
4
5 005372  004767  0000006      SETKNW: CALL    CKSYPV           ; Must have SYSPRV privilege
6 005376          . LOOKUP #XAREA, #1, #KMNNAM ; TRY TO LOOKUP SY:TSKMON.SAV
7 005416  103500          BCS    1$               ; BR IF NOT THERE
8
9          ; Get information about TSKMON out of block 0 of file
10
11 005420          . READW  #XAREA, #1, #BLKO, #256, #0 :READ IN BLOCK 0
12 005456  016700  0000500      MOV    BLKO+50, R0        ; GET TOP ADDRESS OF KMON
13 005462  062700  000003      ADD    #3, R0          ; BOUND UP TO NEXT WORD
14 005466  042700  000001      BIC    #1, R0          ; FORCE EVEN
15 005472  010067  0000000      MOV    R0, KMNTOP
16 005476  162700  0000000      SUB    #KMNBAS, R0       ; BASE ADDRESS OF KMON
17 005502  010067  0000006      MOV    R0, KMNHI        ; TOP OF TSKMON-KMNBAS
18 005506  062700  000777      ADD    #511, R0         ; BOUND UP TO PAGE SIZE
19 005512  000241          CLC
20 005514  006000          ROR    R0              ; CVT TO # WORDS
21 005516  000300          SWAB   R0              ; CVT TO # PAGES
22 005520  042700  177400      BIC    #^C377, R0
23 005524  062700  0000000      ADD    #CXTPAG, R0       ; # PAGES NEEDED TO JOB CONTEXT AREA
24 005530  010067  0000000      MOV    R0, KMNPGS       ; # 256 WORD PAGES FOR KMON & CONTEXT
25 005534  016767  0000420 0000000      MOV    BLKO+42, KMNSTK ; INITIAL STACK POINTER
26 005542  016767  0000400 0000000      MOV    BLKO+40, KMNSTR ; STARTING ADDRESS
27
28          ; Now do .SAVESTATUS so we can quickly reopen to kmon
29
30 005550          . SAVEST #XAREA, #1, #KMNCCHN ; SAVE STATUS
31
32          ; Now purge and reopen channel 17 to the new file (for overlays).
33
34 005570          . PURGE #17             ; Purge channel 17 (overlay channel)
35 005576          . REOPEN #XAREA, #17, #KMNCCHN ; Open channel 17 to new file
36
37          ; Exit to reload Kmon
38
39 005616          . EXIT                ; EXIT AND REENTER NEW VERSION OF TSKMON
40
41          ; Error: Cannot find new Kmon file
42
43 005620          1$:    FABORT #NOKMON      ; ERROR -- CAN'T FIND TSKMON
44
45
46          ; -----
47          ; Process the SET CCL NEW command.
48          ; Begin to use a new version of CCL
49
50 005630  004767  0000000      SETCNW: CALL    CKSYPV           ; Must have SYSPRV privilege
51 005634          . LOOKUP #XAREA, #1, #CCLNAM ; TRY TO LOOKUP SY:CCL.SAV
52 005654  103412          BCS    1$               ; BR IF CAN'T FIND IT
53 005656          . SAVEST #XAREA, #1, #CCLSAY ; SAVE STATUS
54 005676          JMP    RDCMD            ; FINISHED
55 005702          1$:    FABORT #NOCCL      ; CAN'T FIND CCL.SAV

```

```
1 .SBTTL LD
2 ; -----
3 ; Process SET LDn command
4 ;
5 005712 005002      SETLD: CLR    R2      ;ASSUME UNIT # = 0
6 005714 020067 00000000 CMP    R0, R5OLD ;IS UNIT "LD"?
7 005720 001404      BEQ    1$      ;BR IF YES
8 005722 010002      MOV    R0, R2      ;GET DEVICE NAME
9 005724 166702 00000000 SUB    R5OLDO, R2 ;SUBTRACT "LDO" TO GET UNIT # IN R2
10 005730 006302     ASL    R2      ;CONVERT TO WORD TABLE INDEX
11 ;
12 ; Get the option word
13 ;
14 005732 012704 001224' 1$:   MOV    #LDOPHD, R4 ;POINT TO OPTION TABLE
15 005736 004767 00000000 CALL   SEARCH ;ACCRUE AND CHECK OPTION WORD
16 005742 103004      BCC    2$      ;BR IF FOUND
17 005744             FABORT #CSIMS; INVALID OPTION WORD
18 ;
19 ; Jump off to option processing routine
20 ;
21 005754 000134     2$:   JMP    @(R4)+ ;ENTER PROCESSING ROUTINE
22 ;
23 ; SET LD CLEAN
24 ;
25 005756 004767 00000000 SLDCLN: CALL   LDCLEN ;CLEAN UP LOGICAL DISKS
26 005762 000167 00000000           JMP    RDCMD
27 ;
28 ; SET LDn WRITE
29 ;
30 005766 042762 0000000 00000000 SLDWRT: BIC    #LD$RON, LDFLAG(R2) ;CLEAR READ-ONLY FLAG
31 005774 000167 0000000           JMP    RDCMD ;FINISHED
32 ;
33 ; SET LDn NOWRITE
34 ;
35 006000 052762 0000000 00000000 SLDNWR: BIS    #LD$RON, LDFLAG(R2) ;SET READ-ONLY FLAG
36 006006 000167 0000000           JMP    RDCMD ;FINISHED
37 ;
38 ; SET LDn FREE
39 ;
40 006012 004767 000052      SLDFRE: CALL   LDDMT ;DISMOUNT THIS LD
41 006016 004767 0000000           CALL   LDCLEN ;NOW RESET ALL LOGICAL DISK ASSIGNMENTS
42 006022 000167 0000000           JMP    RDCMD ;FINISHED
```

TSKST1 -- Keyboard SET Command MACRO V05.04 Monday 21-Dec-87 17:57 Page 31  
LD

```
1 ;  
2 ; SET LD EMPTY  
3 ; (Dismount all logical disks)  
4 ;  
5 006026 SLDEMP:  
6 ;  
7 ; Begin loop to close log files and deassign any assignments for each  
8 ; logical disk  
9 ;  
10 006026 005002 CLR R2 ; Init index to 1st LD  
11 006030 004767 000102 1$: CALL LOGDEA ; Close any log files and make deassignments  
12 006034 062702 000002 ADD #2,R2 ; Get index for next LD  
13 006040 020227 000016 CMP R2,#14. ; Have we done all?  
14 006044 101771 BLDS 1$ ; Loop if not  
15 ;  
16 ; Dismount the all LD's  
17 ;  
18 006046 012700 000110' MOV #DMTALD,R0 ; Emr arg. block to dismount all LD's  
19 006052 104375 EMT 375 ; Dismount all LD's  
20 006054 103003 BCC 9$ ; Branch if all LD's dismounted  
21 006056 .PRINT #EDMALD ; "Unable to dismount all logical disks."  
22 ;  
23 ; Finished  
24 ;  
25 006064 000167 0000000 9$: JMP RDCMD
```

```
1 ;-----  
2 ; Subroutine to dismount a logical disk.  
3 ;  
4 ; Inputs:  
5 ; R2 = LD unit index  
6 ;  
7 006070 010246 LDDMT: MOV R2,-(SP)  
8 006072 004767 000040 CALL LOGDEA ; Close any log files and make deassignments  
9 ;  
10 ; Tell system to stop doing directory caching for device  
11 ;  
12 006076 112767 000001 0000006 MOVB #1,SERFLG ; Do .SERR to avoid abort for illegal device  
13 006104 012700 0000006 MOV #DMTARG,R0 ; Point to EMT arg block  
14 006110 104375 EMT 375 ; Tell system to stop doing caching  
15 006112 105067 0000006 CLRB SERFLG ; Do .HERR  
16 ;  
17 ; Clean out LD info tables  
18 ;  
19 006116 005062 0000006 CLR LDPDEV(R2) ; No physical device assignment  
20 006122 072227 000002 ASH #2,R2 ; Get index into LDNAME table  
21 006126 005062 0000006 CLR LDNAME(R2) ; No file name  
22 ;  
23 ; Finished  
24 ;  
25 006132 012602 9$: MOV (SP)+,R2  
26 006134 000207 RETURN
```

LD

```

1          ; -----
2          ; Subroutine to check for open log files and deassign any assignments
3          ;
4          ; Inputs:
5          ;   R2 = LD unit index
6          ;
7
8 006136 010246      LOGDEA: MOV    R2,-(SP)
9 006140 010546      MOV    R5,-(SP)
10
11          ; See if this LD is in use
12          ;
13 006142 010200      MOV    R2,R0      ; Get LD unit index
14 006144 072027 000002  ASH    #2,R0      ; Cvt to index into name table
15 006150 005760 00000000 TST    LDNAME(R0) ; Is this LD in use?
16 006154 001413      BEQ    9$      ; Br if not
17
18          ; Build name of LD
19          ;
20 006156 010205      MOV    R2,R5      ; Get LD unit index
21 006160 006205      ASR    R5      ; Convert to unit number
22 006162 066705 00000000 ADD    R5OLD0,R5 ; Add "LDO" to form unit name
23 006166 010567 00000000 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 006172 004767 00000000 CALL   LOGCHK      ; Close log file if it is on this LD
28
29          ; Do DEASSIGN of anything assigned to this LD
30          ;
31 006176 010500      MOV    R5,R0      ; Get LD name
32 006200 004767 00000000 CALL   DEADEV     ; Do deassign
33
34          ; Finished
35
36 006204 012605      9$:   MOV    (SP)+,R5
37 006206 012602      MOV    (SP)+,R2
38 006210 000207      RETURN

```

SL

```

1           .SBTTL.      RI
2
3           ; SET SL
4
5           ; Inputs:
6           ; R3 = Pointer to parameters following "SET SL".
7
8 006212
9
10          ; Process each of the command parameters
11
12 006212 012704 001254'    MOV     #SLEHD, R4      ; Point to list of qualifiers
13 006216 004767 000000G    CALL    SCNOPS       ; Process the qualifiers
14
15          ; Finished
16
17 006222 000167 000000G    JMP     RDCMD
18
19
20
21          ; -----
22          ; SET SL ON
23 006226 105767 000000G    SLOON: TSTB   VSLEDT      ; Is SL available?
24 006232 001007             BNE    1$          ; Br if yes
25 006234               FWARN  #EM$NSL      ; SL not genned into system
26 006250 000425               BR    9$          ;
27 006252 032761 000000C 000000G 1$:    BIT    #<VT100!VT200!VT52>, LTRMTP(R1) ; VT100, VT200 or VT52
28 006260 001007             BNE    2$          ; Br if yes
29 006262               FWARN  #EM$SLT      ; Invalid terminal type
30 006276 000412               BR    9$          ;
31 006300 052761 000000G 000000G 2$:    BIS    #$$SLON, LSW7(R1) ; Enable SL for this line
32 006306 032761 000000G 000000G             BIT    #$$SLKED, LSW7(R1); Is Ked mode wanted?
33 006314 001403               BEQ    9$          ; Br if not
34 006316               .PRINT #SLKD0N      ; Enable terminal alternate keypad mode
35 006324 000207               9$:    RETURN
36
37
38          ; SET SL OFF
39
40 006326               SLOOFF: .PRINT #SLKDOF      ; Return numeric keypad to normal mode
41 006334 042761 000000G 000000G             BIC    #$$SLON, LSW7(R1) ; Disable SL for this line
42 006342 000207               RETURN
43
44
45          ; SET SL TTY
46
47 006344 052761 000000G 000000G SLOTTY: BIS    #$$SLTTY, LSW7(R1); Enable SL for .TTYIN
48 006352 000207               RETURN
49
50
51          ; SET SL NOTTY
52
53 006354 042761 000000G 000000G SLONTT: BIC    #$$SLTTY, LSW7(R1); Disable SL for .TTYIN
54 006362 000207               RETURN
55
56
57          ; SET SL WIDTH=n

```

GL

```

58
59 006364          ; SLOWID: FWARN #EM$SLW      ; Print warning message
60 006400 012705 0000000 MOV #SLMXLN,R5    ; Get SL width
61 006404 004767 0000000 CALL PRTDEC       ; Print the value
62 006410           . PRINT #CRLF        ; Terminate the line
63 006416 000207   RETURN

64
65
66 ;----- ; SET SL LET
67
68 006420 052761 0000000 0000000 SLOLET: BIS ##$SLLET,LSW7(R1);Enable LET feature
69 006426 000207   RETURN

70
71
72 ;----- ; SET SL NOLET
73
74 006430 042761 0000000 0000000 SLONLT: BIC ##$SLLET,LSW7(R1);Disable LET feature
75 006436 000207   RETURN

76
77
78 ;----- ; SET SL KED
79
80 006440 052761 0000000 0000000 SLOCKED: BIS ##$SLKED,LSW7(R1);Remember SL is in KED mode
81 006446           . PRINT #SLKD0N        ;Enable terminal alternate keypad mode
82 006454 000207   RETURN

83
84
85 ;----- ; SET SL RT11
86
87 006456 042761 0000000 0000000 SLORT: BIC ##$SLKED,LSW7(R1);Remember SL is not in KED mode
88 006464           . PRINT #SLKDOF        ;Return numeric keypad to normal mode
89 006472 000207   RETURN

90
91
92 ;----- ; Unimplemented SL option
93
94 006474           . UNIMPLEMENTED: FWARN #EM$U10      ; Unimplemented option
95 006510 000207   RETURN

96
97
98 ;----- ; Ignored option
99
100 006512 000207  SLONOP: RETURN

101
102
103 ;----- ; SET RECALL NORMAL/REVERSE
104
105 006514 012704 001404' SETREC: MOV #RCLHD,R4    ; Point to option table
106 006520 004767 0000000 CALL SEARCH        ; Accrue and check options
107 006524 103006           BCC 1$             ; Br if valid option
108 006526           FWARN #INVOPT        ; Invalid option
109 006542 111467 0000000 1$: MOV B @R4,RCLREV ; Set into context cell
110 006546 000167 0000000           JMP RDCMD

111
112 000001           . END

Errors detected: 0

```

TSKST1 -- Keyboard SET Command MACRO V05.04 Monday 21-Dec-87 12:57 Page 34-2  
SL

\*\*\* Assembler statistics

Work file reads: 0  
Work file writes: 0  
Size of work file: 11952 Words ( 47 Pages)  
Size of core pool: 17920 Words ( 70 Pages)  
Operating system: RT-11

Elapsed time: 00:01:53.46

DK: TSKST1, LP: TSKST1=DK; TSKST1, MAC/C/N: SYM

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| \$AUTO   | 1-87  |       |       |       |
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| \$CCLRN  | 1-86  |       |       |       |
| \$CFABT  | 1-106 |       |       |       |
| \$CFALL  | 1-112 |       |       |       |
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| \$CTRLD  | 1-154 | 10-38 | 10-40 |       |
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| \$CTRLS  | 1-91  |       |       |       |
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| \$DIBOL  | 1-73  | 5-163 | 5-164 |       |
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| \$INCOR  | 1-128 |       |       |       |
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| \$KED    | 1-128 | 14-43 | 14-48 | 14-56 |
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| \$LOFCF  | 1-203 |       |       |       |
| \$MLOCK  | 1-77  |       |       |       |
| \$NOIN   | 1-72  | 17-6  |       |       |
| \$NOINT  | 1-204 |       |       |       |
| \$NOWTT  | 1-72  |       |       |       |
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| \$PRGLK  | 1-87  |       |       |       |
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| \$QTSET  | 1-133 |       |       |       |
| \$QUIET  | 1-125 |       |       |       |
| \$RNIOP  | 1-205 |       |       |       |
| \$SCOPE  | 1-111 |       |       |       |
| \$SGALL  | 1-124 | 5-202 |       |       |





|          |       |        |       |       |        |      |      |
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| CASTBW   | 1-97  |        |       |       |        |      |      |
| CASTRO   | 1-98  |        |       |       |        |      |      |
| CASTWO   | 1-98  |        |       |       |        |      |      |
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| CCLNAM   | 1-196 | 29-50  |       |       |        |      |      |
| CCLSAR   | 1-94  | 29-52  |       |       |        |      |      |
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| CD\$\$UB | 1-116 |        |       |       |        |      |      |
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| CD\$DVU  | 1-116 |        |       |       |        |      |      |
| CD\$JOB  | 1-116 |        |       |       |        |      |      |
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| CD\$TOP  | 1-133 |        |       |       |        |      |      |
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| CFPNT    | 1-125 |        |       |       |        |      |      |
| CFSEND   | 1-118 |        |       |       |        |      |      |
| CFSP     | 1-118 |        |       |       |        |      |      |
| CFSPND   | 1-131 |        |       |       |        |      |      |
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