

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58
Table of contents

6-	1	SET commands
6-	2	Process
14-	1	Terminal
24-	1	CL
33-	1	Host

```
1 .TITLE TSKST2 -- Keyboard SET Command routines
2 .ENABL LC
3 .DSABL GBL
4 .CSECT TSKST2
5 000000
6 TSKST2:
7 ; TSKST2 is the portion of TSKMON that contains the code
8 ; to implement the SET command.
9 ;
10 ; Copyright 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988.
11 ; S&H Computer Systems, Inc,
12 ; Nashville, Tennessee
13 ;
14 ; Macro calls
15 ;
16 .MCALL .CSISPC,.TTDOUTR,.SRESET
17 .MCALL .READW,.TTYIN,.TTYOUT,.PURGE
18 .MCALL .CSIGEN,.SAVEST,.REOPEN
19 .MCALL .GTLIN,.GTIM,.DATE,.SPFUN
20 .MCALL .PRINT,.CLOSE,.LOOKUP
21 .MCALL .WRITW,.ENTER,.EXIT
22 .MCALL .SERR,.HERR,.FPROT,.QVAL,.PVAL
23 ;
24 ; Global definitions
25 ;
26 .GLOBL SETCL,SETHST,SVT227,SVT228
27 .GLOBL SETPRC,SETTTY,STVRFY,STNOVR,SVT50,SVT100,SVT200
28 .GLOBL TSKST2,CMDHD,CMDOFF,KDOCIN,SKPSPC,UCLCMD
29 .GLOBL DORUN,CMDFRM,CMDDSN,STLGCN,DATTIM,PRGALL
30 .GLOBL DLCEMT,ALCDEV,CMDSHO,CMDSET,CMDWHO,CMDMEM,CMDUSE
31 ;
32 ; Global references
33 ;
34 .GLOBL EM$LAS,EM$LFD,EM$CLU,LWINDO,CLSFRS,LCXTBL,MXTTCT,EM$TMT
35 .GLOBL PA$GRC,PA$UKC,PA$DSC,PA$BLD,PA$ULN,PA$DWD,PA$HQL,PA$LET
36 .GLOBL EM$PTA,EM$PTU,SBPSUF,CHKCLU,EM$CLX,PA$BEL,EM$OPR,PA$NWD
37 .GLOBL SCNOPS,TM$XBK,CL$XLN,CKCLUS,ACRSTR,R50KMN,SJEMT,RJEMT
38 .GLOBL PEKEMT,PEKADR,PEKSIZ,TM$NNR,CDBUF,CDGET,TM$IN1,TM$IN2
39 .GLOBL SYPSWD,EM$SPL,ACRTXT,JPWDEV,JPWTYP,JPWFGL,EM$BYP
40 .GLOBL EM$WCO,EM$WC1,EM$WC2,EM$WC3,EM$WCM,P2$CGR
41 .GLOBL CXTRMN,R$CHN,R$XCHN,CHNSIZ,C USED,CL$EPN,CL$EPS,CLEOFS
42 .GLOBL EM$STL,EM$IST,CLSFEPM,EM$IDR,VPRIDF,SETWRD
43 .GLOBL CLRPRV,OPTLST,PFSO,PFCO,PVNFW,PO$SPV,PRIVSO,PRVOPT
44 .GLOBL TM$PVA,TM$PVC,PRIVAO,EM$CNO,EM$CPO,EM$CAP,RSTPRV
45 .GLOBL CHKEQ,CKACOJ,PO$OPR,CKSYWP,P2$TRM,PRIVC2,PO$NAM,EM$NPR
46 .GLOBL INSTBL,INGADR,INGEMT,IIBUF,II$NAM,II$FLG,II$$SZ,EM$NAD
47 .GLOBL INSTBN,AF$SCA,AF$NOW,AF$MEM,PO$DBG,PRIVCO,PRVLST
48 .GLOBL ABRTAD,ABRTCD,CINFLG,$VNOTT,II$PRV,II$NPV,PO$BYP
49 .GLOBL TM$RD1,TM$RD2,TM$LCL,TM$GBL,SPACE1,RC$OWN,RC$CNT
50 .GLOBL RC$EXC,RC$AGE,RC$AEP,RC$USE,RC$FLG,RC$GBL,RC$NAM
51 .GLOBL RC$LEN,RC$PVT,RCBBAS,RCBEND,RC$$SZ,SHRRCB,SHRRCN
52 .GLOBL LP$SPD,LP$PAR,LP$ODD,LP$7BT,EM$ICL,PROSLT,RC$LCG
53 .GLOBL EM$NPD,EM$ILN,EM$CIP,EM$NSF,EM$IUN,EM$CLN,EM$IVN
54 .GLOBL EM$ILN,EM$ACL,EM$TSL,EM$CLB,EM$NSL,EM$SLT,EM$SLW
55 .GLOBL SLKDON,SLKDOF,EM$UIO,TM$PR1,TM$PR2,TM$LPR,TM$HPR
56 .GLOBL TM$HPE,TM$CNG,TM$CDS,TM$CEN,TRMHDI,TRMHD2,AT$DEV
57 .GLOBL OPRTXT,CLLINE,LCLTXT,REMTEXT,TM$AUT,CLFREE,CLUNIT,CLVERS
```

```

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$PRO, CONFQ2
63      . GLOBL CL$RQH, CL$WQH, MAXALC, ALCTBL, ALCEND
64      . GLOBL AD$DVU, AD$JOB, AD$$SZ, UCIDEF, HANCHN
65      . GLOBL NEDCHR, LOUTIR, LINIR, LINRTS, CLOTIR
66      . GLOBL CO$DEF, CL$COL, LCDTYP, SOPALC, SOPDAT, SOPTIM
67      . GLOBL UTRPAD, JSWLDC, ERRLOC, MAXMEM, MAXPRI
68      . GLOBL USRSTK, $KINIT, CFSTK, MXJMEM, DFJMEM, EM$HNI
69      . GLOBL SPUBUF, SXBPNT, MXJADR, CLSFCH
70      . GLOBL TMTOTH, TMTOTL, TMUSRH, TMIOWH, LDMNT, EM$CSE
71      . GLOBL TMSWTH, TMIDLH, TMIOH, TMSWPH, LDCLEN
72      . GLOBL WILDFL, $NOIN, $NOWTT, $HITTY
73      . GLOBL TECO, EDIT, KED, K52, $1STLG, $DIBOL
74      . GLOBL SH$VAL, SH$NAM, SH$$SZ, SH$RTN, SH$FLG
75      . GLOBL SO$NVL, SO$OCT, SO$ND, HANENT, HANSIZ
76      . GLOBL H.CSR, H.VEC, DVSTAT, SFID, ACRSPD, HANPAR, LSTSPL
77      . GLOBL HAZEL, HAZLFL, HAZLNO, $MLOCK, MDT, GETKCH
78      . GLOBL LINBUF, LINNXT, LSTACT, PRGTOP, PRGSIZ, KMNH1
79      . GLOBL KMNTOP, KMNPGS, KMNSTK, KMNSTR, CXTPAG, FSTIOL
80      . GLOBL LINPNT, LINCNT, LACTIV, LRDTIM, CS$RON
81      . GLOBL LOTBUF, LOTNXT, LOTPNT, $VTESC
82      . GLOBL LOTSIZ, LOTSPC, LCOL, $SLKED, ESC, VDBFLC
83      . GLOBL LAFSIZ, LFWLIM, LINCUR, NUMON, ILSW2
84      . GLOBL $DBKMN
85      . GLOBL $CARUP, DOASGN, UKMNAM, $UKMON, LSW9
86      . GLOBL LSUCF, $CCLRN, VLDSYS, EM$NUK, $SQMIO
87      . GLOBL KL3CLR, $PRGLK, LSW5, PVON, $SPND, $AUTO
88      . GLOBL S$TWFN, S$TTFN, S$OTFN, S$IOFN, S$OTLO
89      . GLOBL LSTD1, FSTD1, $DETCH, UMSYTP, S$TTSC
90      . GLOBL $DISCN, LPROJ, LPROG, LUNAME, S$RT, S$LOW
91      . GLOBL LCPUHI, LCPULO, LCONTM, $CTRLS, $SPLJB, TXTCL
92      . GLOBL STPF1, TOTON, USPLCH, SPLCHN, $SHICP
93      . GLOBL S$INWT, S$OTWT, S$TMWT, S$SFWT, S$600
94      . GLOBL S$MSWT, CFBUF, CFEND, CCLSAV, KMNCNN
95      . GLOBL MINTIM, LSECPT, MAXSEC, $EMTTR, VCSHNB
96      . GLOBL OKFILE, OKFEND, $CLTST, UCISPC, MHNSIZ
97      . GLOBL CASTBR, CASCBR, CASTBW, CASCUP, MHNSMS
98      . GLOBL CASTRO, CASTWO, CLTOTL, CO$DTR, CLSFSP
99      . GLOBL CO$CR, CO$FF, CO$FF0, CO$LC, CO$TAB, CO$CTL
100     . GLOBL CO$LFI, CO$LFO, CO$BNI, CO$BNO, CL$OPT
101     . GLOBL CL$LEN, CL$SKP, CL$WID, CL$LIN, PHYMEM
102     . GLOBL LJSW, CTRLTT, NEWJSW, JSTKND, VIMAGE
103     . GLOBL USTART, GENTOP, BOTDEV, BOTUNI, CSHALC
104     . GLOBL $CTRLC, LSW2, $INKMN, CHAIN, UFORM
105     . GLOBL $SGQ0, $SGQ3, LITIME
106     . GLOBL MAXASN, $CFABT, INDSTA, INDERR
107     . GLOBL RUNDEV, LNBLKS, CXTBAS, CXTWDS, UHIMEM
108     . GLOBL $DILUP, CSHDEV, CSHDVN, LNSBLK
109     . GLOBL LSW3, LSW2S, $DUPRN
110     . GLOBL $FORM, $TAB, LSCCA, $CFSOT, LOFSPC, R50COM
111     . GLOBL $PAGE, $SCOPE, $ECHO, $LC, $8BIT, CHKALC, $ALTER
112     . GLOBL UCHAN, $FORMO, $CFALL, $CFDCC, $CFCC1
113     . GLOBL LNPRIM, LNMAP, CW$50H, CONFIG, $SUCF
114     . GLOBL $DOOFF, NUChN, LRBFIL, CFIND, TALEM1

```

```

115      . GLOBL C, CSW, C, DEVQ, C, SBLK, NLINES, CD$BBT
116      . GLOBL CD$NAM, CD$DVU, CD$BAS, CD$JOB, CD$$SZ, CD$$UB
117      . GLOBL LTSCMD, LNSPAC, CFNEST, UCLNAM
118      . GLOBL $CFOPN, CFSEND, PBFEND, CFSP, $TTGAG
119      . GLOBL UFPPTR, SDSFCB, SD$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, $GCIIO, $GHIIO
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 $WILD, ERRSEV, UERSEV, PASLIN, LOGBAS, LOGDVU
135      . GLOBL LSTPL, SDCB, SDCBND, VQUANO, VQUAN3
136      . GLOBL VQUAN1, VQUAN1A, VQUAN2, VHIPC, VQUANO, VQUAN3
137      . GLOBL DCTRD, DCCRD, DCTWR, DCCWR, ASNSRC
138      . GLOBL VCORTM, NUMDCD, VNUMDC, KMPRMT, MXPRMT
139      . GLOBL RDB, RDBEND, RT$NAM, RT$$SZ, CLDEVX, SDDVU
140      . GLOBL SDNAME, SDCBSZ, LSTS, LSTATE
141      . GLOBL TK1VAL, CINDAT, SYSDAT, SYTIMH, SYTIML
142      . GLOBL BASMAP, LOMAP, HIMAP, JCXPGS
143      . GLOBL SMRSIZ, SRITSIZ, CSHSIZ, TK1SEC
144      . GLOBL TSXLN, TSXSIT, GRT1, TRGRET, LICTXT, SUPCOD, NAMTOP, SUMS, SUCS
145      . GLOBL LPRG1, LPRG2, S$QUSR, S$IOWT, S$SFWT
146      . GLOBL S$SPDB, S$SPCB, SFUSER, SFFILE, VT200, VT2007, VT2008
147      . GLOBL LCBIT, LA36, LA120, VT52, VT100, DIABLO, QUME
148      . GLOBL ADM3A, LTRMTP, LA12FL, LA12NO, VT52FL
149      . GLOBL VT10FL, VT10NO, QUMEFL, QUMENO, ADM3FL
150      . GLOBL VT20FL, VT20ND
151      . GLOBL ADM3NO, SYINDX, SYUNIT, NUMDEV, PNAME
152      . GLOBL OF$DEV, OF$UNT, OF$FIL, OF$FLG, SYNAME
153      . GLOBL OF$$SZ, OT$RON, RESDEV, $TAPE
154      . GLOBL KMNBAS, ODTBAS, $CTRLD
155      . GLOBL LSW6, $SNWTT, PF$SYS, PF$IOW, $DEBUG
156      . GLOBL RSR, TSR, LMXNUM, LSTMX, MXDTR, ZCLR, MXCSR
157      . GLOBL $INDDF, $INDRN, IN$ACT, IN$CNT, IN$CMD, INDSAV
158      . GLOBL $PHONE, INVEC, LMXLN, MXVEC, $INIT, $DEAD, $HARD
159      . GLOBL ITRMTP, LMXPRM, LSW7, $INDAB, CFSTS, CF$IND, CF$QUT
160      . GLOBL CFABLV, MONVEC, LBSPRI, MAXPRI, MXJPRI, LPRI, $SYSPS
161      . GLOBL LOGCHN, LOGFLG, LOGPTR, LOGBUF, LOGBLK
162      . GLOBL LF$OPN, LF$WRT, UCLBLK, UCLDAT
163      . GLOBL CSHHD, FC$CDX, FC$LNK, FD$NAM, UC$NDC, UC$MDC, CVTUC
164      . GLOBL CMDBUF, PAUMSQ, RDCMD, DKSAV, SYSsav, CVTTAB, RUNHD, SEARCH
165      . GLOBL INVOPT, FKILL, ABRTCF, ACRFN, XAREA, FILNAM, NOPRG, FPRINT
166      . GLOBL PUSHCF, TRMSTR, FILNAM, R50DIR, R50SY, R50IND, R50SAV
167      . GLOBL INDACT, R50DUP, R50PIP, R50KED, R50K52, R50KEX, R50TSX, R50UCL
168      . GLOBL BLKO, RDERM, R50VIR, NOSTRT, RUNEMT, OVRCOR
169      . GLOBL BADSAV, LDNAM, NOPRG, NOCIN, SIZVAL, ASKLM, BADCMD, KCSIBF
170      . GLOBL ASDEX, KCSIMS, ASNQVF, GTRD50, R50BUF, R50LDO, MNTDEV, DMTARG
171      . GLOBL DEADEV, CHKMNT, CHKMTX, INFOMT, NOFLAG, MTOPHD, INVOPT, ILLCMD

```

172 . GLOBL R50LD, INVLDN, R50DSK, ACRFIL, BDFNAM, LOGASN, MNTFUL, R50LD7
173 . GLOBL TBLOVF, SETHD, CSIMS2, CKPRIV, R50ND, AMBOPT, ACRDEC
174 . GLOBL MAXAVL, PRTDEC, DEVUNT, PNAME, HNBUF, CKTERM
175 . GLOBL ACROCT, HANBSY, CSIMS1, MISSEQ, NOIND, POPCF
176 . GLOBL BADPMT, BADPRI, TOTXT, CRLF, HIPRI, 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, PRTLН, 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, MNBPC
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, SPGEMT, 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, DIVSOR, TMTOTL, PRTPCT, SUM1, SUM2, SUM3, SUM4
194 . GLOBL SUM5, SUM6, SUM7, OTHRDN, SPLPN, STPASK, SRTSMS, CHKTTD
195 . GLOBL SIZEMT, ASNOVF, INVLDN, CSIMS4, MNTARG, HUPARG, R50TT
196 . GLOBL KMNNAM, NOKMON, CCLNAM, OTRMNT, CHKDEV, DMTSUB, CMDCCL
197 . GLOBL SHOHD, SUBTXT, MNTTXT, SRTTXT, TOTMMS, UMSSMS, SSRMAP
198 . GLOBL TSXSMS, USRMMS, JCXSMS, DZTXT, OCTPRT
199 . GLOBL PRTR50, PRTDAT, PRTTOD, PRTTIM, INVDEV, ALFN, R50DK
200 . GLOBL DETHD, DETARG, RUNMS, NOFRDL, R50MON, INVDAT, MUL32, COAF
201 . GLOBL AR\$PRJ, AR\$PRG, AR\$CON, AR\$CNT, AR\$CPH, AR\$CPL, AR\$UNM
202 . GLOBL AR\$DMY, AR\$\$SZ, ARNRPB, \$SLON, \$SLTTY, \$SLLET
203 . GLOBL PRTWRN, SLMXLN, VSLEDT, \$LOFCF, CSHMSG
204 . GLOBL AF\$HIE, AF\$NOI, \$NOINT, AF\$PLK, AF\$DBG
205 . GLOBL AF\$IOP, \$RNIOP

```
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 RDCMD.  
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 CMDV$2  
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 NAMES2  
45 L =  
46 .ASCIZ /STRNG/  
47 .CSECT CMDV$2  
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 ;
```

```
58 ; -----
59 ; Macro to end a set of table entries.
60 ;
61     .MACRO TBLEND
62     .CSECT CMDVS2
63     .WORD 0
64     .CSECT TSKST2
65     .ENDM TBLEND
```

```

1 ;-----  

2 ; Data areas  

3 ;  

4 000000 125017 074773 R50HST: .RAD50 /$HOST$/  

5 000004 012256 000000 000000 CLDEV: .RAD50 /CLN/ /  

6 000012 000000  

7 000014 012276 R50CLO: .RAD50 /CLO/  

8 000016 013666 R50C10: .RAD50 /C10/  

9 000020 000000 CPFLAG: .WORD 0  

10 ;  

11 ; Flags stored in CPFLAG  

12 000001 CPFSUS = 1 ;Suspend process  

13 000002 CPFRES = 2 ;Resume process  

14 000004 CPFAUT = 4 ;Set authorized privileges  

15 ;  

16 000022 000 SETPRM: .BYTE 0 ;Indicates if SET is temp or perm  

17 000023 000 CPPID: .BYTE 0 ;Process ID for SET PROCESS command  

18 000024 000 CPPRIO: .BYTE 0 ;Priority value for SET PROCESS command  

19 000025 000 CPNAME: .BLKB 12. ;Name buffer for SET PROCESS command  

20 .EVEN  

21 ;  

22 ; Emt to assign a CL line to a time-sharing line  

23 ;  

24 000042 000 155 CLAEMT: .BYTE 0,155  

25 000044 000000 .WORD 0 ;CL unit number  

26 000046 000000 .WORD 0 ;Line number  

27 ;  

28 ; Emt to clear XOFF status for a CL line (SET CLn XONBYPASS)  

29 ;  

30 000050 001 155 CLXEMT: .BYTE 1,155  

31 000052 000000 .WORD 0 ;CL unit number  

32 ;  

33 ; Emt to completely reset a CL line (SET CLn RESETBYPASS)  

34 ;  

35 000054 002 155 CLREMT: .BYTE 2,155  

36 000056 000000 .WORD 0 ;CL unit number  

37 ;  

38 ; Emt to cross connect our time-sharing line with a CL unit  

39 ;  

40 000060 000 126 TTXCL: .BYTE 0,126  

41 000062 000013 .WORD 13  

42 000064 000000 .WORD 0  

43 ;  

44 ; Emt to set line speed  

45 ;  

46 000066 000 154 LSPEMT: .BYTE 0,154  

47 000070 000000 .WORD 0 ;Line number  

48 000072 000000 .WORD 0 ;Speed code  

49 ;  

50 ; Emt to reset XOFF status for a TT line  

51 ;  

52 000074 001 154 XONEMT: .BYTE 1,154  

53 000076 000000 .WORD 0  

54 ;  

55 ; EMT to set/reset DTR for a line  

56 ;

```

57 000100 002 154 DTREMT: .BYTE 2, 154 ; Assume raise DTR (3, 154 = drop DTR)
58 000102 000000 .WORD 0
59 ;
60 ; Emt to set privilege flags
61 ;
62 000104 001 150 PVSEMT: .BYTE 1, 150
63 000106 002 001 .BYTE 2, 1
64 000110 000000 .WORD PFS0
65 000112 000000 .WORD 0
66 ;
67 ; Emt to clear privilege flags
68 ;
69 000114 001 150 PVCEMT: .BYTE 1, 150
70 000116 001 001 .BYTE 1, 1
71 000120 000000 .WORD PFCO
72 000122 000000 .WORD 0
73 ;
74 ; Emt to start an inactive line
75 ;
76 000124 000 126 STAEMT: .BYTE 0, 126
77 000126 000020 .WORD 20
78 000130 000000 .WORD 0
79 ;
80 ; Emt to declare terminal type change to process windowing system
81 ;
82 000132 007 161 WINSTT: .BYTE 7, 161

```
1 ;-----  
2 ; Options for SET TT command  
3 ;  
4 000134 TBLDEF TT, 3  
5 000002 CMDDEF ADM*3A, SADM3A, 0, 0  
6 000012 CMDDEF AL*TERNATE, SETTTB, LSW2, $ALTER  
7 000022 CMDDEF AUTO*BAUD, SAUTO, 0, 0  
8 000032 CMDDEF NOAUTO*BAUD, CLRTTP, LSW2, $AUTO  
9 000042 CMDDEF BIT*S, STCLEN, 0, 0  
10 000052 CMDDEF DEAD, SETDED, LSW3, $DEAD  
11 000062 CMDDEF NODEAD, CLRTTP, LSW3, $DEAD  
12 000072 CMDDEF DEC*WRITER, STLA36, 0, 0  
13 000102 CMDDEF DEF*ER, SETTTB, LSW2, $DEFER  
14 000112 CMDDEF NOD*EFER, CLRTTB, LSW2, $DEFER  
15 000122 CMDDEF DI*ABLO, SDIAB, 0, 0  
16 000132 CMDDEF DT*R, SETDTR, 0, 0  
17 000142 CMDDEF NODT*R, CLRDTTR, 0, 0  
18 000152 CMDDEF E*CHO, SETTTB, LSW2, $ECHO  
19 000162 CMDDEF NOE*CHO, CLRTTB, LSW2, $ECHO  
20 000172 CMDDEF EIGHT*BIT, SETTTB, LSW2, $8BIT  
21 000202 CMDDEF NOEIGHT*BIT, CLRTTB, LSW2, $8BIT  
22 000212 CMDDEF FORM, SETTTB, LSW2, $FORM  
23 000222 CMDDEF NOFORM, CLRTTB, LSW2, $FORM  
24 000232 CMDDEF FORMO, SETTTB, LSW4, $FORMO  
25 000242 CMDDEF NOFORMO, CLRTTB, LSW4, $FORMO  
26 000252 CMDDEF G*AG, SETTTB, LSW7, $TTGAG  
27 000262 CMDDEF NOG*AG, CLRTTB, LSW7, $TTGAG  
28 000272 CMDDEF HAZEL*TINE, STHAZL, 0, 0  
29 000302 CMDDEF HO*LD, RDCMD, 0, 0  
30 000312 CMDDEF NOH*OLD, RDCMD, 0, 0  
31 000322 CMDDEF LA1*20, SLA120, 0, 0  
32 000332 CMDDEF LA3*6, STLA36, 0, 0  
33 000342 CMDDEF LC, SETTTB, LSW2, $LC  
34 000352 CMDDEF NOL*C, CLRTTB, LSW2, $LC  
35 000362 CMDDEF LE*NGTH, RDCMD, 0, 0  
36 000372 CMDDEF PAG*E, SETTTB, LSW2, $PAGE  
37 000402 CMDDEF NOP*AGE, CLRTTB, LSW2, $PAGE  
38 000412 CMDDEF PAR*ITY, SETPAR, 0, 0  
39 000422 CMDDEF NOPAR*ITY, STNOPR, 0, 0  
40 000432 CMDDEF PHO*NE, SETTTP, LSW2, $PHONE  
41 000442 CMDDEF NOPHO*NE, CLRTTP, LSW2, $PHONE  
42 000452 CMDDEF QUI*ET, SETQUT, 0, 0  
43 000462 CMDDEF NOQ*UIET, RSTQUT, 0, 0  
44 000472 CMDDEF QUM*E, SQUME, 0, 0  
45 000502 CMDDEF SC*OPE, SETTTB, LSW2, $SCOPE  
46 000512 CMDDEF NOSC*OPE, SETNSC, 0, 0  
47 000522 CMDDEF SEVEN*BIT, CLRTTB, LSW2, $8BIT  
48 000532 CMDDEF SI*NGLE, SETTTB, LSW6, $STSNG  
49 000542 CMDDEF NOSI*NGLE, CLRTTB, LSW6, $STSNG  
50 000552 CMDDEF SPE*ED, STTTSPI, 0, 0  
51 000562 CMDDEF STA*RT, STTTST, 0, 0  
52 000572 CMDDEF STAN*DARD, CLRTTB, LSW2, $ALTER  
53 000602 CMDDEF STD, CLRTTB, LSW2, $ALTER  
54 000612 CMDDEF SYSP*ASSWORD, SETTTP, LSW2, $SYSPS  
55 000622 CMDDEF NOSYSP*ASSWORD, CLRTTP, LSW2, $SYSPS  
56 000632 CMDDEF SYSPS, SETTTP, LSW2, $SYSPS  
57 000642 CMDDEF NOSYSPS, CLRTTP, LSW2, $SYSPS
```

```

58 000652      CMDDEF  SYSP*WD, SETTTP, LSW2, $SYSPS
59 000662      CMDDEF  NOSYSP*WD, CLRTTP, LSW2, $SYSPS
60 000672      CMDDEF  TAB, SETTTB, LSW2, $TAB
61 000702      CMDDEF  NOTAB, CLRTTB, LSW2, $TAB
62 000712      CMDDEF  TAP*E, SETTTB, LSW2, $TAPE
63 000722      CMDDEF  NOTAP*E, CLRTTB, LSW2, $TAPE
64 000732      CMDDEF  TR*ANSLATE, STTRNS, 0, 0
65 000742      CMDDEF  VT1*00, SVT100, 24., 0
66 000752      CMDDEF  VT2*00, SVT200, 24., 0
67 000762      CMDDEF  VT220, SVT200, 24., 0
68 000772      CMDDEF  VT2207, SVT227, 24., 0
69 001002      CMDDEF  VT2208, SVT228, 24., 0
70 001012      CMDDEF  VT240, SVT200, 24., 0
71 001022      CMDDEF  VT241, SVT200, 24., 0
72 001032      CMDDEF  VT5*0, SVT50, 12., 0
73 001042      CMDDEF  VT5*2, SVT50, 24., 0
74 001052      CMDDEF  W*AIT, SETTW, 0, 0
75 001062      CMDDEF  NOW*AIT, SETTNW, 0, 0
76 001072      CMDDEF  XON, SETXON, 0, 0
77 001102      CMDDEF  8BIT, SETTTB, LSW2, $8BIT
78 001112      CMDDEF  NO8BIT, CLRTTB, LSW2, $8BIT
79 001122      CMDDEF  7BIT, CLRTTB, LSW2, $8BIT
80 001132      TBLEND

81
82      ; Define options for SET TI [n] PARITY= command
83
84 000134      TBLDEF  PAR, 3
85 001136      CMDDEF  E*VEN, STPAR, LP$PAR
86 001146      CMDDEF  O*DD, STPAR, LP$PAR!LP$ODD
87 001156      CMDDEF  N*ONE, STPAR, 0
88 001166      TBLEND

89
90
91      ; Define options for the SET CLn command
92
93 000134      TBLDEF  CLOP, 2
94 001172      CMDDEF  BIT*S, STCLBT, 0
95 001200      CMDDEF  CR, STCLOP, CO$CR
96 001206      CMDDEF  NOCR, CLCLOP, CO$CR
97 001214      CMDDEF  DTR, STCLOP, CO$DTR
98 001222      CMDDEF  NODTR, CLCLOP, CO$DTR
99 001230      CMDDEF  ENDP*AGES, STCLVL, CL$EPN
100 001236     CMDDEF  ENDS*TRING, CLESTR, 0
101 001244     CMDDEF  FORM, STCLOP, CO$FF
102 001252     CMDDEF  NOFORM, CLCLOP, CO$FF
103 001260     CMDDEF  FF, STCLOP, CO$FF
104 001266     CMDDEF  NOFF, CLCLOP, CO$FF
105 001274     CMDDEF  FORMO, STCLOP, CO$FFO
106 001302     CMDDEF  NOFORMO, CLCLOP, CO$FFO
107 001310     CMDDEF  GR*APH, STCLGR, 0.
108 001316     CMDDEF  NOGR*APH, STCLGR, 132.
109 001324     CMDDEF  LC, STCLOP, CO$LC
110 001332     CMDDEF  NOLC, CLCLOP, CO$LC
111 001340     CMDDEF  TAB, STCLOP, CO$TAB
112 001346     CMDDEF  NOTAB, CLCLOP, CO$TAB
113 001354     CMDDEF  CTRL, STCLOP, CO$CTL
114 001362     CMDDEF  NOCTRL, CLCLOP, CO$CTL

```

```

115 001370      CMDDEF LEN*GTH, STCLVL, CL$LEN
116 001376      CMDDEF LFIN, STCLOP, CO$LFI
117 001404      CMDDEF NOLFIN, CLCLOP, CO$LFI
118 001412      CMDDEF LFOUT, STCLOP, CO$LFO
119 001420      CMDDEF NOLFOUT, CLCLOP, CO$LFO
120 001426      CMDDEF LIN*E, STCLLN, O
121 001434      CMDDEF BININ, STCLOP, CO$BNI
122 001442      CMDDEF NOBININ, CLCLOP, CO$BNI
123 001450      CMDDEF BINOUT, STCLOP, CO$BNO
124 001456      CMDDEF NOBINOUT, CLCLOP, CO$BNO
125 001464      CMDDEF 8BIT, STCLOP, CO$BBT
126 001472      CMDDEF EIGHT*BIT, STCLOP, CO$BBT
127 001500      CMDDEF NO8*BIT, CLCLOP, CO$BBT
128 001506      CMDDEF NOEIGHT*BIT, CLCLOP, CO$BBT
129 001514      CMDDEF 7BIT, CLCLOP, CO$BBT
130 001522      CMDDEF PAR*ITY, STCLPO, CLPRHD
131 001530      CMDDEF NOPAR*ITY, STCLNP
132 001536      CMDDEF SEVEN*BIT, CLCLOP, CO$BBT
133 001544      CMDDEF TOP, CLTOP, O
134 001552      CMDDEF TR*ANSLATE, CLTRNS, O
135 001560      CMDDEF RES*ET, STCLRS, O
136 001566      CMDDEF SKI*P, STCLVL, CL$SKP
137 001574      CMDDEF WID*TH, STCLVL, CL$WID
138 001602      CMDDEF SP*EED, STCLSP, O
139 001610      CMDDEF VER*SION, STCLVR, O
140 001616      CMDDEF XON, STCLXN, O

; These two forms do not require allocation of the CL device, they
; do their own separate checking for BYPASS privilege instead.
; Leave them at the end of the table.

CLNCKA:
141          CMDDEF XONB*YPASS, STCLXB, O
142          CMDDEF RESETB*YPASS, STCLRB, O
143          TBLEND

; Define options for SET CL PARITY= command
; 
144          TBLDEF CLPR, 2
145          CMDDEF E*VEN, STCLPR, LP$PAR
146          CMDDEF O*DD, STCLPR, LP$PAR!LP$ODD
147          CMDDEF N*ONE, STCLPR, O
148          TBLEND

; Define options for the SET HOST command
; 
149          TBLDEF HOST, 1
150          CMDDEF DTE, HSTDTE
151          CMDDEF CL, HSTDTE
152          CMDDEF PO*RT, HSTPRT
153          TBLEND

; Define options for SET PROCESS command
; 
154          TBLDEF CPOP, 2
155          CMDDEF PRIV*ILEGES, PRVOPT, O
156          CMDDEF ID*ENTIFICATION, CPPPID, O
157          CMDDEF NAM*E, CPPNAM, O
158          CMDDEF PRIOR*ITY, CPPPRI, O
159          TBLEND

```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 5-3

172 001742	CMDDEF SUSP*END, CPPFLG, CPFSUS, 0
173 001750	CMDDEF RES*UME, CPPFLG, CPFRES, 0
174 001756	CMDDEF AU*THORIZED, CPPFLG, CPFAUT, 0
175 001764	TBLEND

SET commands

```

1           .SBTTL  SET commands
2           .SBTTL  .      Process
3
4           ; -----
5           ; Process the SET PROCESS command.
6 000134   SETPRC:
7
8           ; Initialize cells which will hold values parsed by the command
9
10 000134  116767  0000000 177661    MOVB    CORUSR, CPPID    ; Set process ID=our job
11 000142  105067  177657     CLRBL  CPNAME      ; No name specified
12 000146  105067  177652     CLRBL  CPPRIO      ; No priority
13 000152  005067  177642     CLRBL  CPFLAG      ; No flags
14 000156  004767  0000000     CALL    CLRPRV      ; No privileges
15
16           ; Do command parsing
17
18 000162  012704  001710'     MOV     #CPOPHD, R4    ; Point to option driver list
19 000166  004767  0000000     CALL    OPTLST      ; Parse the command
20
21           ; Now process each option that was accrued
22
23 000172  004767  000366     CALL    CPSNAM      ; See if process name was specified
24 000176  004767  000644     CALL    CPSPRI      ; See if priority was specified
25 000202  004767  000464     CALL    CPSPRV      ; See if privileges were specified
26 000206  004767  000676     CALL    CPSFLG      ; See if flags were specified
27
28           ; Finished command
29
30 000212  000167  0000000     9$:    JMP     RDCMD      ; Finished command

```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 7
Process

```
1 ;-----  
2 ; SET PROCESS/IDENTIFICATION=job-number  
3 ;  
4 000216 010146          CPPPID: MOV      R1,-(SP)  
5 ;  
6 ; Accrue the ID value  
7 ;  
8 000220 004767 000000G    CALL     ACRDEC  
9 ;  
10 ; Make sure the ID value is valid  
11 ;  
12 000224 006301          ASL      R1      ; Convert to word table index  
13 000226 001413          BEQ      10$      ; Invalid if zero  
14 000230 020127 000000G    CMP      R1,#LSTSL   ; Is this a valid job #?  
15 000234 101010          BHI      10$      ; Br if not  
16 000236 032761 000000G 000000G    BIT      #$DILUP,LSW(R1) ; Is line logged on?  
17 000244 001410          BEQ      11$      ; Br if not  
18 000246 110167 177551        MOVB    R1,CPPID   ; Save ID value  
19 ;  
20 ; Finished  
21 ;  
22 000252 012601          MOV      (SP)+,R1  
23 000254 000207          RETURN  
24 ;  
25 ; Invalid ID  
26 ;  
27 000256 10$: FABORT #EM$ILN      ; Invalid job number  
28 000266 11$: FABORT #NOTON      ; Line not logged on
```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 8
Process

```
1 ;-----  
2 ; SET PROCESS/PRIORITY=value  
3 ;  
4 000276 010146 CPPPRI: MOV R1,-(SP)  
5 000300 010546 MOV R5,-(SP)  
6 ;  
7 ; Accrue the priority value  
8 ;  
9 000302 004767 0000000 CALL ACRDEC ;Accrue priority value  
10 ;  
11 ; See if the priority value is valid  
12 ;  
13 000306 005701 TST R1 ;Must be > 0  
14 000310 003406 BLE 10$ ;Br if invalid  
15 000312 120167 0000000 CMPB R1, MXJPRI ;Is it within valid range for job?  
16 000316 101003 BHI 10$ ;Br if not  
17 000320 110167 177500 MOVB R1, CPPRIO ;Save priority value  
18 000324 000424 BR 9$  
19 ;  
20 ; Invalid priority value  
21 ;  
22 000326 10$: FERR #BADPRI ;Invalid priority value  
23 000342 012705 000001 MOV #1,R5 ;Minimum prio value  
24 000346 004767 0000000 CALL PRTDEC  
25 000352 .PRINT #TOTXT ;"to"  
26 000360 116705 0000000 MOVB MXJPRI,R5 ;Max possible  
27 000364 004767 0000000 CALL PRTDEC  
28 000370 .PRINT #CRLF  
29 ;  
30 ; Finished  
31 ;  
32 000376 012605 9$: MOV (SP)+,R5  
33 000400 012601 MOV (SP)+,R1  
34 000402 000207 RETURN
```

```
1 ;-----  
2 ; SET PROCESS/NAME="string"  
3 ;  
4 000404 010246 CPPNAM: MOV R2,-(SP)  
5 000406 010446 MOV R4,-(SP)  
6 ;  
7 ; Make sure equal sign follows keyword  
8 ;  
9 000410 004767 000000G CALL CHKEQ ;Check for equal sign  
10 000414 012702 000025' MOV #CPNAME,R2 ;Point to buffer for name  
11 ;  
12 ; See if string is enclosed in quote marks  
13 ;  
14 000420 004767 000000G CALL SKPSPC ;Skip over any spaces  
15 000424 111300 MOVB (R3),R0 ;Get 1st char of string  
16 000426 120027 000042 CMPB R0,#42 ;Quote mark?  
17 000432 001403 BEQ 3$ ;Br if yes  
18 000434 120027 000047 CMPB R0,#47 ;Apostrophe?  
19 000440 001014 BNE 1$ ;Br if not  
20 ;  
21 ; String is enclosed in quote marks  
22 ;  
23 000442 004767 000000G 3$: CALL ACRSTR ;Accrue a quoted string  
24 000446 005700 TST R0 ;Is string empty?  
25 000450 001423 BEQ 2$ ;If empty, go blank fill it.  
26 000452 020027 000014 CMP R0,#12. ;Is string too long?  
27 000456 101026 BHI 10$ ;Br if too long  
28 000460 012704 000000G MOV #BLKO,R4 ;Point to accrued string  
29 000464 112422 MOVB (R4)+,(R2)+ ;Move to string buffer  
30 000466 077002 SOB R0,4$  
31 000470 000413 BR 2$ ;Go blank fill rest of buffer if needed  
32 ;  
33 ; Name string is not quoted.  
34 ; Move name to buffer till we hit end of string  
35 ;  
36 000472 111300 1$: MOVB (R3),R0 ;Get next char from string  
37 000474 001411 BEQ 2$ ;Br if hit end of command  
38 000476 120027 000057 CMPB R0, #'/' ;Start of next qualifier?  
39 000502 001406 BEQ 2$ ;Br if yes  
40 000504 005203 INC R3 ;Point to next character in command  
41 000506 020227 000041' CMP R2,#CPNAME+12. ;Buffer overflow?  
42 000512 103010 BHIS 10$ ;Br if yes  
43 000514 110022 MOVB R0,(R2)+ ;Store char into name buffer  
44 000516 000765 BR 1$  
45 ;  
46 ; Fill remainder of buffer with blanks  
47 ;  
48 000520 020227 000041' 2$: CMP R2,#CPNAME+12. ;Filled buffer yet?  
49 000524 103011 BHIS 9$ ;Br if yes  
50 000526 112722 000040 MOVB #'',(R2)+ ;Pad with blanks  
51 000532 000772 BR 2$  
52 ;  
53 ; Error: string is too long  
54 ;  
55 000534 10$: FERR #EM$STL ;String is too long  
56 ;  
57 ; Finished
```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 9-1
Process

```
58 ;  
59 000550 012604 9$: MOV (SP)+, R4  
60 000552 012602 MOV (SP)+, R2  
61 000554 000207 RETURN  
62 ;-----  
63 ; Set some flag for a SET PROCESS qualifier  
64 ;  
65 000556 051467 177236 CPPFLG: BIS (R4), CPFLAG ; Set specified flag bit  
66 000562 000207 RETURN
```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 10
Process

```
1 ;-----  
2 ; See if NAME qualifier was specified.  
3 ;  
4 000564 010146 CPSNAM: MOV R1,-(SP)  
5 000566 010246 MOV R2,-(SP)  
6 ;  
7 ; See if name qualifier was specified  
8 ;  
9 000570 105767 177231 TSTB CPNAME ;Was name qualifier specified?  
10 000574 001423 BEQ 9$ ;Br if not  
11 ;  
12 ; Make sure we are changing for our own process  
13 ;  
14 000576 116701 177221 MOVB CPPID,R1 ;Get job index  
15 000602 120167 000000G CMPB R1,CORUSR ;Affecting our own process?  
16 000606 001021 BNE 10$ ;Br if not  
17 000610 032767 000000G 000000G BIT #PO$NAM,PRIVCO ;Are we authorized to change our name?  
18 000616 001421 BEQ 11$ ;Br if not  
19 000620 070127 000006 MUL #6.,R1 ;Each job has 12 character name  
20 000624 062701 000000G ADD #LUNAME,R1 ;Point to name cell for our job  
21 000630 012702 000025' MOV #CPNAME,R2 ;Point to name buffer  
22 000634 012700 000014 MOV #12.,R0 ;Get # bytes to move  
23 000640 112221 1$: MOVB (R2)+,(R1)+ ;Set name for job  
24 000642 077002 SOB R0,1$  
25 ;  
26 ; Finished  
27 ;  
28 000644 012602 9$: MOV (SP)+,R2  
29 000646 012601 MOV (SP)+,R1  
30 000650 000207 RETURN  
31 ;  
32 ; Cannot change name of another job  
33 ;  
34 000652 10$: FABORT #EM$CNO  
35 000662 11$: FABORT #EM$NPR
```

```
1 ;-----  
2 ; Change privilege flags for our process.  
3 ;  
4 000672 010246 CPSPRV: MOV R2,-(SP)  
5 000674 010346 MOV R3,-(SP)  
6 000676 010446 MOV R4,-(SP)  
7 ;  
8 ; See if any privilege changes were specified  
9 ;  
10 000700 012702 0000000 MOV #PFS0,R2 ;Flags to set  
11 000704 012703 0000000 MOV #PFC0,R3 ;Flags to clear  
12 000710 012700 0000000 MOV #PVNPW,RO ;# words to check  
13 000714 005722 1$: TST (R2)+ ;Any flags to set?  
14 000716 001004 BNE 2$ ;Br if yes  
15 000720 005723 TST (R3)+ ;Any flags to clear?  
16 000722 001002 BNE 2$ ;Br if yes  
17 000724 077005 SOB RO,1$ ;Keep checking  
18 000726 000433 BR 9$ ;No privilege changes requested  
19 ;  
20 ; Make sure we are changing privileges for our job  
21 ;  
22 000730 126767 177067 0000000 2$: CMPB CPPID,CORUSR ;Changing privilege for our job?  
23 000736 001033 BNE 10$ ;Br if not  
24 ;  
25 ; Set correct EMT function code depending on whether we are doing a  
26 ; normal privilege change or are changing authorized privileges.  
27 ;  
28 000740 012704 000001 MOV #1,R4 ;Assume normal priv change  
29 000744 032767 000004 177046 BIT #CPFAUT,CPFLAG ;Changing authorized privileges?  
30 000752 001402 BEQ 4$ ;Br if not  
31 000754 012704 000002 MOV #2,R4 ;Code to change authorized privileges  
32 000760 110467 177123 4$: MOVB R4,PVSEMT+3 ;Set code in EMT arg block  
33 000764 110467 177127 MOVB R4,PVCEMT+3  
34 ;  
35 ; Set any specified privileges  
36 ;  
37 000770 005004 CLR R4 ;No privilege error detected  
38 000772 012700 000104' MOV #PVSEMT,RO ;Point to EMT arg block  
39 000776 104375 EMT 375 ;Set privilege flags  
40 001000 103001 BCC 3$ ;Br if no authorization violation  
41 001002 005204 INC R4 ;Remember we had authorization violation  
42 ;  
43 ; Clear any specified privileges  
44 ;  
45 001004 012700 000114' 3$: MOV #PVCEMT,RO ;Point to EMT arg block  
46 001010 104375 EMT 375 ;Clear privilege flags  
47 001012 005704 TST R4 ;Did we have an authorization violation?  
48 001014 001010 BNE 11$ ;Br if yes  
49 ;  
50 ; Finished  
51 ;  
52 001016 012604 9$: MOV (SP)+,R4  
53 001020 012603 MOV (SP)+,R3  
54 001022 012602 MOV (SP)+,R2  
55 001024 000207 RETURN  
56 ;  
57 ; Can't change privilege for another job
```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 11-1
Process

```
58
59 001026          ;10$:   FABORT  #EM$CPO      ;Can't change privilege for another job
60
61          ; Not authorized to give yourself this privilege
62
63 001036          ;11$:   FABORT  #EM$CAP      ;Can't authorize that privilege
```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 12
Process

```
1 ;-----  
2 ; See if we need to change priority for job.  
3 ;  
4 001046 010246 CPSPRI: MOV R2,-(SP)  
5 ;  
6 ; See if a priority change was requested  
7 ;  
8 001050 105767 176750 TSTB CPPRIO ;Was a priority specified  
9 001054 001413 BEQ 9$ ;Br if not  
10 001056 116702 176741 MOVB CPPID,R2 ;Get ID # of job we want to affect  
11 001062 004767 000000G CALL CKACOJ ;Can we access that job?  
12 001066 103406 BCS 9$ ;Br if not  
13 ;  
14 ; Change priority value  
15 ;  
16 001070 116762 176730 000000G MOVB CPPRIO,LBSPRI(R2) ;Set base priority  
17 001076 116762 176722 000000G MOVB CPPRIO,LPRI(R2) ;Set running priority  
18 ;  
19 ; Finished  
20 ;  
21 001104 012602 9$: MOV (SP)+,R2  
22 001106 000207 RETURN
```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 13
Process

```
1 ;-----  
2 ; See if we need to suspend or resume a job.  
3 ;  
4 001110 010246 CPSFLG: MOV R2,-(SP)  
5 ;  
6 ; See if any flags were specified  
7 ;  
8 001112 032767 000003 176700 BIT #<CPFSUS!CPFRES>, CPFLAG ; Suspend or resume requested?  
9 001120 001423 BEQ 9$ ; Br if not  
10 ;  
11 ; Make sure we aren't suspending or resuming our own job  
12 ;  
13 001122 116702 176675 MOVB CPPID,R2 ; Get ID # of job we want to affect  
14 001126 120267 000000G CMPB R2,CORUSR ; Is it our job?  
15 001132 001420 BEQ 10$ ; Br if yes  
16 ;  
17 ; Make sure we can access the specified job  
18 ;  
19 001134 004767 000000G CALL CKACDJ ; Can we access that job?  
20 001140 103413 BCS 9$ ; Br if not  
21 ;  
22 ; Suspend or resume the specified job  
23 ;  
24 001142 012700 000000G MOV #RJEMT, R0 ; Point to resume-job arg block  
25 001146 032767 000002 176644 BIT #CPFRES, CPFLAG ; Does he want to resume the job?  
26 001154 001002 BNE 1$ ; Br if yes  
27 001156 012700 000000G MOV #SJEMT, R0 ; Point to suspend-job arg block  
28 001162 010260 000004 1$: MOV R2,4(R0) ; Set job # in EMT arg block  
29 001166 104375 EMT 375 ; Suspend or resume the job  
30 ;  
31 ; Finished  
32 ;  
33 001170 012602 9$: MOV (SP)+, R2  
34 001172 000207 RETURN  
35 ;  
36 ; Error -- Trying to suspend or resume our own job  
37 ;  
38 001174 10$: FABORT #EM$IDR ; /ID parameter required
```

```
1 .SBTTL . Terminal
2 ; -----
3 ; Process the SET TERMINAL command.
4 ;
5 001204 SETTTY:
6 ;
7 ; See if a line number was specified
8 ;
9 001204 105067 176612      CLRB   SETPRM    ; Assume no line number specified
10 001210 004767 0000000     CALL    SKPSPC   ; Skip over any spaces
11 001214 010305           MOV     R3,R5    ; Save pointer to first operand
12 001216 005002           CLR     R2       ; Say no digits seen yet
13 001220 112500           1$:    MOVB    (R5)+,R0  ; Get next char
14 001222 001413           BEQ    2$       ; Br if hit end of command line
15 001224 120027 000040     CMPB    R0,#40   ; Is this a space?
16 001230 001410           BEQ    2$       ; Br if yes
17 001232 120027 000060     CMPB    R0,#'0   ; Is this a digit?
18 001236 103435           BLO    3$       ; Br if not
19 001240 120027 000071     CMPB    R0,#'9   ; Br if not digit
20 001244 101032           BHI    3$       ; Remember we saw a digit
21 001246 005202           INC     R2       ; Scan first item and see if it is a number
22 001250 000763           BR     1$       ; Was first item a number?
23 001252 005702           2$:    TST    R2       ; Br if not
24 001254 001426           BEQ    3$       ;
25 ;
26 ; There is a terminal number specified, accrue it
27 ;
28 001256 004767 0000000     CALL    ACRDEC   ; Accrue the terminal number
29 ;
30 ; See if this is a valid terminal number
31 ;
32 001262 006301           ASL     R1       ; Convert line number to line index number
33 001264 001403           BEQ    4$       ; Zero is not valid line number
34 001266 020127 000000G     CMP     R1,#LSTPL ; Is this a primary line number?
35 001272 101404           BLOS   5$       ; Br if yes
36 001274               4$:    FABORT #EM$ILN ; Invalid line number
37 ;
38 ; Require TERMINAL privilege to make any permanent change
39 ;
40 001304 004767 000000G     5$:    CALL    CKTERM   ; Require TERMINAL privilege to do this
41 001310 110167 176506     MOVB   R1,SETPRM ; Remember to make set permanent
42 ;
43 ; If we are changing line parameters for a line that is not
44 ; currently logged on, initialize the LSW2 table from the initial
45 ; flags for the line (ILSW2).
46 ;
47 001314 032761 000000G 000000G     BIT    ##$DILUP,LSW(R1) ; Is line logged on?
48 001322 001003           BNE    3$       ; Br if yes
49 001324 016161 000000G 000000G     MOV    ILSW2(R1),LSW2(R1); Initialize LSW2 table
50 ;
51 ; We have the terminal line index number for which the command is being
52 ; issued in R1.
53 ; Process all qualifier specified with command.
54 ;
55 001332 012704 000000'          3$:    MOV    #TTHD,R4    ; Get pointer to option table
56 001336 004767 000000G          CALL   SCNOPS  ; Process all of the command options
57 ;
```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 14-1
Terminal

58 ; End of command reached
59 ;
60 001342 000167 0000000 JMP RDCMD ;Finished SET TT command

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 15
Terminal

```
1 ;-----  
2 ; SET TERMINAL n START  
3 ;  
4 001346 004767 000000G STTST: CALL CKPRIV ;Require OPER privilege  
5 ;  
6 ; See if line is already started  
7 ;  
8 001352 032761 000000G 000000G BIT #$DILUP,LSW(R1) ;Is line already started?  
9 001360 001404 BEQ 1$ ;Br if not  
10 001362 FABORT #EM$LAS ;Line is already started  
11 ;  
12 ; See if line is marked dead  
13 ;  
14 001372 032761 000000G 000000G 1$: BIT #$/DEAD,LSW3(R1) ;Is line marked as dead?  
15 001400 001404 BEQ 2$ ;Br if not  
16 001402 FABORT #EM$LFD ;Line is dead  
17 ;  
18 ; See if a CL unit is attached to the line  
19 ;  
20 001412 005761 000000G 2$: TST LCLUNT(R1) ;Is line being used by a CL unit?  
21 001416 002404 BLT 3$ ;Br if not  
22 001420 FABORT #EM$CLU ;Line in use by a CL unit  
23 ;  
24 ; Start the line  
25 ;  
26 001430 010167 176474 3$: MOV R1,STAEMT+4 ;Store line index into EMT arg block  
27 001434 012700 000124' MOV #STAEMT,R0 ;Point to EMT arg block  
28 001440 104375 EMT 375 ;Start the line  
29 001442 000207 RETURN
```

```
1 ;-----  
2 ; SET TERMINAL [n] SPEED=n  
3 ;  
4 001444 004767 000000G STTTSP: CALL CKTERM ;Require TERMINAL privilege  
5 001450 004767 000000G CALL ACRSPD ;Accrue speed value  
6 001454 042761 000000G 000000G BIC #$AUTO, LSW2(R1) ;Say no autobaud on this line  
7 001462 116100 000001G MOVB LMXPRM+1(R1), R0 ;Get control flags for line  
8 001466 042700 000000G BIC #<CLP$SPD>, R0 ;Clear speed flags  
9 001472 050005 BIS R0, R5 ;Combine parity and length flags with speed  
10 001474 010567 176372 STSP1: MOV R5, LSPEMT+4 ;Store speed, par, len code into EMT arg block  
11 001500 010167 176364 MOV R1, LSPEMT+2 ;Store line # into EMT arg block  
12 001504 006267 176360 ASR LSPEMT+2 ;Convert index # to line #  
13 001510 012700 000066 MOV #LSPEMT, R0 ;Point to EMT arg block  
14 001514 104375 EMT 375 ;Set the speed  
15 001516 103402 BCS 2$ ;Br if error  
16 001520 000167 000474 JMP BS01  
17 ;  
18 ; Error on EMT to set speed  
19 ;  
20 001524 2$: FABORT #EM$ILN ;Say invalid line number
```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 17
Terminal

```
1 ;-----  
2 ; SET TT [n] XON  
3 ;  
4 001534 004767 000000G SETXON: CALL CKTERM ;Require TERMINAL privilege  
5 001540 010167 176332 MOV R1,XONEMT+2 ;Set line # in EMT argument block  
6 001544 006267 176326 ASR XONEMT+2 ;Convert index # to line #  
7 001550 012700 000074 MOV #XONEMT, R0 ;Point to EMT argument block  
8 001554 104375 EMT 375 ;Do the XON EMT  
9 001556 103402 BCS 2$ ;Br if invalid line #  
10 001560 000167 000434 JMP BS01  
11 001564 2$: FABORT #EM$ILN ;Say invalid line number
```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 18
Terminal

```
1 ;-----  
2 ; SET TT [n] [NO]DTR  
3 ;  
4 001574 112767 000002 176276 SETDTR: MOVB #2, DTREMT ; Set function to raise DTR  
5 001602 000403 BR DTRCOM ; Br to common routine  
6 001604 112767 000003 176266 CLRDTTR: MOVB #3, DTREMT ; Set function to lower DTR  
7 001612 004767 0000006 DTRCOM: CALL CKTERM ; Require TERMINAL privilege  
8 001616 006201 ASR R1 ; Convert line index to line number  
9 001620 010167 176256 MOV R1, DTREMT+2 ; Set in EMT arg block  
10 001624 006301 ASL R1 ; Get back as line index  
11 001626 012700 000100' MOV #DTREMT, R0 ; Point to EMT arg block to  
12 001632 104375 EMT 375 ; Raise or lower DTR  
13 001634 103402 BCS 2$ ; Br on EMT error  
14 001636 000167 000356 JMP BS01  
15 001642 2$: FABORT EM$ILN ; Say invalid line number
```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 19
Terminal

```
1 ;-----  
2 ; SET TERMINAL AUTOBAUD  
3 ;  
4 001652 004767 000000G SAUTO: CALL CKTERM ;Require TERMINAL privilege  
5 001656 052761 000000G 000000G BIS #$AUTO, LSW2(R1) ;Set flag saying to do autobaude select  
6 001664 032761 000000G 000000G BIT #$DILUP, LSW(R1) ;Is anyone using the line now?  
7 001672 001003 BNE 9$ ;Br if yes  
8 001674 012705 000000G MOV #S9600, R5 ;Set line speed to 9600 baud  
9 001700 000675 BR STSP1  
10 001702 000167 000312 9$: JMP BS01
```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 20
Terminal

```
1 ;-----  
2 ; SET TERMINAL PARITY={EVEN ODD NONE}  
3 ;  
4 001706 010446      SETPAR: MOV    R4,-(SP)      ; Save current option table pointer  
5 001710 004767 000000G    CALL   CKTERM        ; Require TERMINAL privilege  
6 001714 004767 000000G    CALL   SKPSPC        ; Skip past any spaces  
7 001720 121327 000075    CMPB  (R3),#'=      ; Equal sign following PARITY?  
8 001724 001001          BNE    1$              ; Br if not  
9 001726 005203          INC    R3              ; Skip past equal sign  
10 001730 012704 001134'    1$:   MOV    #PARHD,R4    ; Point to new option table  
11 001734 004767 000000G    CALL   SETWRD        ; Process EVEN, ODD, NONE word  
12 001740 012604          MOV    (SP)+,R4  
13 001742 000207          RETURN
```

```
1 ;-----  
2 ; SET TERMINAL BITS=n  
3 ;  
4 001744 004767 000000G STCLEN: CALL CKTERM ;Require TERMINAL privilege  
5 001750 116105 000001G MOVB LMXPRM+1(R1),R5 ;Get current line parameters  
6 001754 010102 MOV R1,R2 ;Save line index number  
7 001756 004767 000000G CALL ACRDEC ;Accrue parameter value  
8 001762 042705 000000G BIC #LP$7BT,R5 ;Assume 8 bits wanted  
9 001766 020127 000007 CMP R1,#7. ;Is value 7?  
10 001772 001003 BNE 1$ ;Br if not  
11 001774 052705 000000G BIS #LP$7BT,R5 ;Select 7 bits  
12 002000 000407 BR 2$  
13 002002 120127 000010 1$: CMPB R1,#8. ;Is value 8?  
14 002006 001404 BEQ 2$ ;Br if yes  
15 002010 FABORT #EM$ICL ;Invalid character length  
16 002020 010201 MOV R2,R1 ;Get back line index number  
17 002022 000167 177446 JMP STSP1 ;Go set new length
```

```
1 ;-----  
2 ; SET TERMINAL PARITY=(EVEN ODD NONE)  
3 ;  
4 ; Inputs:  
5 ; R1 = line index number.  
6 ; R4 = Pointer to work with parity flag bits.  
7 ;  
8 002026 004767 000000G STPAR: CALL CKTERM ;Require TERMINAL privilege  
9 002032 116105 000001G MOVB LMXPRM+1(R1),R5 ;Get current flags for line  
10 002036 042705 000000C BIC #LP$PAR!LP$ODD,R5;Clear parity control flags  
11 002042 151405 BISB @R4,R5 ;Set new flags  
12 002044 000167 177424 JMP STSP1 ;Go set value  
13 ;  
14 ; SET TERMINAL NOPARITY  
15 ;  
16 002050 004767 000000G STNOPR: CALL CKTERM ;Require TERMINAL privilege  
17 002054 116105 000001G MOVB LMXPRM+1(R1),R5 ;Get current flags for line  
18 002060 042705 000000C BIC #LP$PAR!LP$ODD,R5;Clear parity control flags  
19 002064 000167 177404 JMP STSP1 ;Go set value  
20 ;-----  
21 ;  
22 ; SET TERMINAL [n] TRANSLATE=(ext=int, ext=int,...)  
23 ;  
24 002070 010146 STTRNS: MOV R1,-(SP) ;Save original line number  
25 002072 016101 000000G MOV LNPRIM(R1),R1 ;Make sure we have primary line number  
26 002076 004767 002344 CALL PRSTRN ;Parse the translate qualifier  
27 002102 012601 MOV (SP)+,R1 ;Restore original line number  
28 002104 000207 RETURN
```

```
1 ;-----  
2 ; Set parameters for particular terminal types.  
3 ;  
4 ; SET PARAMETERS FOR A VT50/VT52.  
5 ; SET VT50  
6 002106 042761 000000G 000000G SVT50: BIC #VT52NO, LSW2(R1); CLEAR SOME FLAGS  
7 002114 052761 000000G 000000G BIS #VT52FL, LSW2(R1); SAY TERMINAL IS A VT50  
8 002122 012761 000000G 000000G MOV #VT52, LTRMTP(R1); SET TERMINAL TYPE  
9 002130 000414 BR BS02  
10 ;  
11 ; SET PARAMETERS FOR LA36.  
12 ;  
13 002132 042761 000000G 000000G STLA36: BIC #LA36NO, LSW2(R1); RESET VARIOUS FLAGS  
14 002140 052761 000000G 000000G BIS #LA36FL, LSW2(R1)  
15 002146 012761 000000G 000000G MOV #LA36, LTRMTP(R1); SET TERMINAL TYPE  
16 002154 042761 000000G 000000G BIC ##$LON, LSW7(R1) ;Disalble SL editor for this terminal type  
17 ;  
18 ; Set up terminal type information  
19 ;  
20 002162 120167 000000G BS02: CMPB R1, CORUSR ;Changing terminal type for our job?  
21 002166 001006 BNE 1$ ;Br if not our job  
22 002170 005761 000000G TST LWINDO(R1) ;Is process windowing turned on for job?  
23 002174 001403 BEQ 1$ ;Br if not  
24 002176 012700 000132' MOV #WINSTT, R0 ;Point to EMT argument block  
25 002202 104375 EMT 375 ;Tell windowing system about terminal type  
26 002204 105767 175612 1$: TSTB SETPRM ;Should we make the set permanent?  
27 002210 001403 BEQ BS01 ;Br if not  
28 002212 016161 000000G 000000G MOV LTRMTP(R1), ITRMTP(R1) ;Set initial terminal type  
29 002220 016161 000000G 000000G BS01: MOV LSW2(R1), LSW2S(R1) ;Save in case of ctrl-c reentry  
30 002226 105767 175570 TSTB SETPRM ;Should we make the set permanent?  
31 002232 001403 BEQ SETJMP ;Br if not  
32 002234 016161 000000G 000000G MOV LSW2(R1), ILSW2(R1); Set initial flags for line  
33 002242 000207 SETJMP: RETURN ;Return to process next qualifier  
34 ;  
35 ; LA120 parameters  
36 ;  
37 002244 042761 000000G 000000G SLA120: BIC #LA12NO, LSW2(R1); SET FLAGS  
38 002252 052761 000000G 000000G BIS #LA12FL, LSW2(R1)  
39 002260 012761 000000G 000000G MOV #LA120, LTRMTP(R1); SET TERMINAL TYPE  
40 002266 042761 000000G 000000G BIC ##$LON, LSW7(R1) ;Disalble SL editor for this terminal type  
41 002274 000732 BR BS02  
42 ;  
43 ; VT100 parameters  
44 ;  
45 002276 042761 000000G 000000G SVT100: BIC #VT10NO, LSW2(R1); SET FLAGS  
46 002304 052761 000000G 000000G BIS #VT10FL, LSW2(R1)  
47 002312 012761 000000G 000000G MOV #VT100, LTRMTP(R1); SET TERMINAL TYPE  
48 002320 000720 STERM: BR BS02  
49 ;  
50 ; VT200 parameters  
51 ;  
52 002322 042761 000000G 000000G SVT200: BIC #VT20NO, LSW2(R1)  
53 002330 052761 000000G 000000G BIS #VT20FL, LSW2(R1)  
54 002336 012761 000000G 000000G MOV #VT200, LTRMTP(R1)  
55 002344 000706 BR BS02  
56 ;  
57 ; VT200 parameters 7 bit controls
```

58 ;
59 002346 042761 000000G 000000G SVT227: BIC #VT20NO, LSW2(R1)
60 002354 052761 000000G 000000G BIS #VT20FL, LSW2(R1)
61 002362 012761 000000G 000000G MOV #VT2007, LTRMTP(R1)
62 002370 000674 BR BS02
63 ;
64 ; VT200 parameters 8 bit controls
65 ;
66 002372 042761 000000G 000000G SVT228: BIC #VT20NO, LSW2(R1)
67 002400 052761 000000G 000000G BIS #VT20FL, LSW2(R1)
68 002406 012761 000000G 000000G MOV #VT2008, LTRMTP(R1)
69 002414 000662 BR BS02
70 ;
71 ; Hazeltine parameters
72 ;
73 002416 042761 000000G 000000G STHAZL: BIC #HAZLNO, LSW2(R1); RESET SOME FLAGS
74 002424 052761 000000G 000000G BIS #HAZLFL, LSW2(R1); SET SOME FLAGS
75 002432 012761 000000G 000000G MOV #HAZEL, LTRMTP(R1); SET TERMINAL TYPE
76 002440 042761 000000G 000000G BIC ##SLON, LSW7(R1) ;Disalble SL editor for this terminal type
77 002446 000645 BR BS02
78 ;
79 ; ADM3A parameters
80 ;
81 002450 042761 000000G 000000G SADM3A: BIC #ADM3NO, LSW2(R1); SET FLAGS
82 002456 052761 000000G 000000G BIS #ADM3FL, LSW2(R1)
83 002464 012761 000000G 000000G MOV #ADM3A, LTRMTP(R1); SET TERMINAL TYPE
84 002472 042761 000000G 000000G BIC ##SLON, LSW7(R1) ;Disalble SL editor for this terminal type
85 002500 000630 BR BS02
86 ;
87 ; SET PARAMETERS FOR DIABLO-1620 TERMINAL
88 ;
89 002502 SQUME:
90 002502 042761 000000G SDIAB: BIC #DIABNO, LSW2(R1); RESET VARIOUS FLAGS
91 002510 052761 000000G BIS #DIABFL, LSW2(R1); SAY THIS IS A DIABLO
92 002516 012761 000000G 000000G MOV #DIABLO, LTRMTP(R1); SET TERMINAL TYPE
93 002524 042761 000000G 000000G BIC ##SLON, LSW7(R1) ;Disalble SL editor for this terminal type
94 002532 000613 BR BS02
95 ;
96 ; SET TT QUIET
97 ; (Also, SET NOVERIFY)
98 ;
99 002534 116701 000000G STNOVR: MOVB CORUSR, R1 ;Get current job index number
100 002540 004767 000004 CALL SETQUT ;Do the set
101 002544 000167 000000G JMP RDCMD ;Finished
102 ;
103 002550 052761 000000G 000000G SETQUT: BIS ##QTSET, LSW2(R1) ;REMEMBER SET WAS DONE
104 002556 052761 000000G 000000G BIS ##QUIET, LSW4(R1) ;HAVE IMMEDIATE EFFECT
105 002564 120167 000000G CMPB R1, CORUSR ;Are we doing set for current job?
106 002570 001025 BNE 1\$;Br if not
107 002572 . GVAL #XAREA, #<CFSTS-MONVEC> ;GET CURRENT COMMAND FILE FLAGS
108 002612 010002 MOV R0, R2
109 002614 052702 000000G BIS #CF\$QUT, R2 ;SET TT-QUIET FLAG
110 002620 . PVAL #XAREA, #<CFSTS-MONVEC>, R2; STORE UPDATED FLAGS
111 002644 000167 177350 1\$: JMP BS01
112 ;
113 ; SET TT NOQUIET
114 ; (Also, SET VERIFY)

```

115
116 002650 116701 000000G ; STVRFY: MOVB CORUSR, R1 ; Get current job index number
117 002654 004767 000004 CALL RSTQUT ; Do the SET
118 002660 000167 000000G JMP RDCMD ; Finished
119
120 002664 042761 000000G 000000G RSTQUT: BIC ##QTSET, LSW2(R1) ; REMEMBER SET WAS DONE
121 002672 042761 000000G 000000G BIC ##QUIET, LSW4(R1) ; START LISTING NOW
122 002700 120167 000000G CMPB R1, CORUSR ; Are we doing set for current line?
123 002704 001025 BNE 1$ ; Br if not
124 002706 . GVAL #XAREA, #CCFSTS-MONVEC> ; GET CURRENT COMMAND FILE FLAGS
125 002726 010002 MOV R0, R2
126 002730 042702 000000G BIC #CF$QUT, R2 ; CLEAR TT-QUIET FLAG
127 002734 . PVAL #XAREA, #CCFSTS-MONVEC>, R2; STORE UPDATED FLAGS
128 002760 000167 177234 1$: JMP BS01
129
130 ; SET TT NOSCOPE
131
132 002764 042761 000000G 000000G SETNSC: BIC ##SCOPE, LSW2(R1) ; Say this is not a scope type terminal
133 002772 042761 000000G 000000G BIC ##SLON, LSW7(R1) ; Disable SL editor
134 003000 000167 177214 JMP BS01
135
136 ; SET TT WAIT
137
138 003004 042761 000000G 000000G SETTW: BIC ##SNWTT, LSW6(R1); UNDO SET TT NOWAIT
139 003012 042761 000000G 000000G BIC ##NOWTT, LSW5(R1)
140 003020 000207 RETURN
141
142 ; SET TT NOWAIT
143
144 003022 052761 000000G 000000G SETTNW: BIS ##SNWTT, LSW6(R1); SET TT NOWAIT
145 003030 052761 000000G 000000G BIS ##NOWTT, LSW5(R1)
146 003036 000207 RETURN
147
148 ; SET TT DEAD
149
150 003040 004767 000000G SETDED: CALL CKTERM ; Require TERMINAL privilege
151 003044 032761 000000G 000000G BIT ##DILUP, LSW(R1) ; Is line active now
152 003052 001406 BEQ SETTTB ; Br if not
153 003054 FABORT #RUNMS ; Can't kill an active line
154
155 ; Perform terminal sets that only involve setting or clearing flag bits.
156
157 003064 004767 000000G SETTTP: CALL CKTERM ; Require TERMINAL privilege
158 003070 012405 SETTTB: MOV (R4)+, R5 ; POINT TO TABLE
159 003072 060105 ADD R1, R5 ; POINT TO TABLE ENTRY FOR THIS USER
160 003074 051415 BIS @R4, @R5 ; SET THE DESIRED FLAG
161 003076 000167 177116 JMP BS01
162
163 ; RESET A BIT IN A USER TABLE
164
165 003102 004767 000000G CLRTP: CALL CKTERM ; Require TERMINAL privilege
166 003106 012405 CLRTTB: MOV (R4)+, R5 ; POINT TO TABLE
167 003110 060105 ADD R1, R5 ; POINT TO TABLE ENTRY FOR THIS USER
168 003112 041415 BIC @R4, @R5 ; RESET THE DESIRED FLAG
169 003114 000167 177100 JMP BS01

```

CL

```

1          .SBTTL .      CL
2
3          ;-----;
4          ; Process the SET CLn command
5          ;
6          ; Inputs:
7          ;   R2 = CL unit number
8          ;
9 003120 004767 000000G    SETCL: CALL    CKTERM      ;Require TERMINAL privilege for SET CL
10 003124 020227 000000G      CMP     R2, #CLTOTL  ;Is this a valid unit?
11 003130 103404            BLO     3$          ;Br if ok
12 003132                   FABORT  #EM$IUN   ;Invalid CL unit
13 003142 006302            3$:    ASL     R2          ;Convert unit # to word table index
14
15          ; At this point, R2 contains the index into the CL unit tables.
16          ; Begin loop to process each specified command qualifier.
17 003144 004767 000000G    1$:    CALL    SKPSPC     ;Skip over any spaces
18 003150 111300            MOVB   (R3), R0    ;Get next character from command
19 003152 001443            BEQ    15$        ;Br if hit the end of the command
20 003154 120027 000054      CMPB   R0, #''
21 003160 001403            BEQ    4$          ;Br if yes
22 003162 120027 000057      CMPB   R0, #'/'
23 003166 001005            BNE    5$          ;Br if not
24 003170 005203            4$:    INC     R3          ;Skip past separator
25 003172 004767 000000G      CALL    SKPSPC     ;Skip over any spaces
26 003176 105713            TSTB   (R3)       ;Are we at the end of the command now?
27 003200 001424            BEQ    10$        ;Br if yes -- Error
28
29          ; Process the next command qualifier
30
31 003202 012704 001170'    5$:    MOV     #CLOPHD, R4  ;Point to option table
32 003206 004767 000000G      CALL    SEARCH      ;Search for option keyword
33 003212 103413            BCS    11$        ;Br if cannot identify keyword
34 003214 020427 001624'      CMP     R4, #CLNCKA ;Does this set command need to check alloc?
35 003220 101004            BHI    51$        ;BR if not
36 003222 016700 000000G      MOV     R50BUF, R0 ;Get back RAD50 device name
37 003226 004767 000000G      CALL    CHKALC    ;Forbid SET if device is allocated
38 003232 010246            51$:   MOV     R2, -(SP) ;Save unit index
39 003234 004734            CALL    @(R4)+   ;Call routine to process qualifier
40 003236 012602            MOV     (SP)+, R2 ;Get back unit number index
41 003240 000741            BR     1$          ;Go see if there are more qualifiers
42
43          ; Invalid qualifier keyword
44
45 003242                   11$:   FABORT #CSIMSI   ; Invalid option keyword
46
47          ; Invalid command syntax
48
49 003252                   10$:   FABORT #EM$CSE   ; Command syntax error
50
51          ; End of command reached
52
53 003262 000167 000000G    15$:   JMP     RDCMD    ;Finished command
54
55          ; CL unit is not assigned to a line
56
57 003266                   STCLNL: FABORT #EM$CLN   ;CL unit is not assigned to a line

```

58 ; Turn on some option
59 ;
60 ;
61 003276 005762 000000G STCLOP: TST CL\$LIX(R2) ; Is this CL unit assigned to a line?
62 003302 001771 BEQ STCLNL ; Br if not
63 003304 051462 000000G BIS (R4), CL\$OPT(R2) ; Set desired option flag
64 003310 000207 RETURN
65 ;
66 ; Turn off some option
67 ;
68 003312 005762 000000G CLCLOP: TST CL\$LIX(R2) ; Is this CL unit assigned to a line?
69 003316 001763 BEQ STCLNL ; Br if not
70 003320 041462 000000G BIC (R4), CL\$OPT(R2) ; Reset the option
71 003324 000207 RETURN
72 ;
73 ; Set a parameter value
74 ;
75 003326 005762 000000G STCLVL: TST CL\$LIX(R2) ; Is this CL unit assigned to a line?
76 003332 001755 BEQ STCLNL ; Br if not
77 003334 004767 000000G CALL ACRDEC ; Accrue decimal value
78 003340 011404 MOV (R4), R4 ; Get address of table to store value into
79 003342 060204 ADD R2, R4 ; Point to correct table entry
80 003344 010114 MOV R1, (R4) ; Store value into table
81 003346 000207 RETURN
82 ;
83 ; SET CL [NO]GRAPH
84 ;
85 003350 005762 000000G STCLGR: TST CL\$LIX(R2) ; Is this CL unit assigned to a line?
86 003354 001744 BEQ STCLNL ; Br if not
87 003356 011462 000000G MOV (R4), CL\$WID(R2) ; Set width to 0 (graph) or 132 (nograph)
88 003362 000207 RETURN
89 ;
90 ; SET CL TOP
91 ;
92 003364 005762 000000G CLTOP: TST CL\$LIX(R2) ; Is this CL unit assigned to a line?
93 003370 001736 BEQ STCLNL ; Br if not
94 003372 005062 000000G CLR CL\$LIN(R2) ; Say we are at top of the page
95 003376 000207 RETURN
96 ;
97 ; SET CL SPEED=value
98 ;
99 003400 016202 000000G STCLSP: MOV CL\$LIX(R2), R2 ; Is this CL unit assigned to a line?
100 003404 001730 BEQ STCLNL ; Br if not
101 003406 004767 000000G CALL ACRSPD ; Accrue speed value
102 003412 116200 000001G MOVB LMXPRM+1(R2), R0 ; Get current flags for line
103 003416 042700 000000G BIC #LP\$SPD, R0 ; Clear speed code
104 003422 050005 BIS R0, R5 ; Put in parity and length flags
105 003424 010567 174442 STCLS1: MOV R5, LSPEMT+4 ; Store speed code into EMT arg block
106 003430 006202 ASR R2 ; Convert line index # to line #
107 003432 010267 174432 MOV R2, LSPEMT+2 ; Store line # into EMT arg block
108 003436 012700 000066' MOV #LSPEMT, R0 ; Point to EMT arg block
109 003442 104375 EMT 375 ; Set the speed
110 003444 103401 BCS 2\$; Br if error
111 003446 000207 RETURN
112 ;
113 ; Error on EMT to set speed
114 ;

CL

```

115 003450          2$:      FABORT #EM$IUN           ; Say invalid unit number
116
117
118
119 003460 012705 0000006 STCLXN: MOV    #CLSPFCH,R5   ; Get .SPFUN code
120 003464 000402     BR     CLSPFN            ; Do the .SPFUN
121
122
123
124 003466 012705 0000006 STCLRS: MOV    #CLSFRS,R5   ; Get .SPFUN code
125
126
127
128
129 003472 005762 0000006 CLSPFN: TST    CL$LIX(R2)    ; Is this CL unit assigned to a line?
130 003476 001673
131 003500 004767 001140 BEQ    STCLNL           ; Br if not
132 003504
133 003550 103404 CALL   CLLLOOK          ; Open channel 1 to CL unit
134 003552
135 003560 000207 .SPFUN #XAREA,#1,R5,#0,#0,#0 ; Do the function
136 003562
137 003570             BCS    2$                ; Br if error on .SPFUN
138
139
140
141 003600 004767 0000006 RETURN
142 003604 122327 000075 STCLPO: CALL   SKPSPC          ; Skip any spaces
143 003610 001401 CMPB   (R3)+,#'='        ; Should have an equal sign
144 003612 005303 BEQ    1$                ; Point to start of keyword
145 003614 012704 001642' 1$:    DEC    R3                ; Point to driver table
146 003620 004767 0000006 MOV    #CLPRHD,R4       ; Process the option
147 003624 000207     CALL   SETWRD          ; Return

```

CL

```

1          ; -----
2          ; BYPASS forms of SET CLn XON and RESET commands.
3          ; These forms differ from the ordinary forms in that they use
4          ; EMT processing instead of SPFUN calls to the CL handler, and thus
5          ; do not have the overhead or access checking of getting a channel.
6
7          ; SET CLn XONBYPASS   Same as SET CLn XON, except uses EMT instead of SPFUN
8
9          ; R2 contains CL unit index
10
11 003626 004767 000040    STCLXB: CALL    CHKBCM      ; Make common checks for SET CLn xxxBYPASS cmds
12 003632 006202           ASR      R2          ; Convert CL unit index back into unit number
13 003634 012700 000050'    MOV      #CLXEMT, R0    ; Point to emt arg block to set cln xon
14 003640 010260 000002    MOV      R2, 2(R0)    ; Set CL unit number into arg block
15 003644 104375           EMT      375         ; Issue the command
16 003646 000207           RETURN
17
18          ; SET CLn RESETBYPASS  Same as SET CLn RESETBYPASS, except uses EMT method
19
20          ; R2 contains CL unit index
21
22 003650 004767 000016    STCLRBL: CALL   CHKBCM      ; Make common checks for SET CLn xxxBYPASS cmds
23 003654 006202           ASR      R2          ; Convert CL unit index back into unit number
24 003656 012700 000054'    MOV      #CLREMT, R0    ; Point to EMT arg block to SET CLn RESET
25 003662 010260 000002    MOV      R2, 2(R0)    ; Set CL unit number into arg block
26 003666 104375           EMT      375         ; Issue the command
27 003670 000207           RETURN
28
29          ; Common check routine for SET CLn XONBYPASS and RESETBYPASS
30          ; Inputs:
31          ;     R2      contains CL unit index
32
33 003672 032767 000000G 000000G  CHKBCM: BIT    #PO$BYP, PRIVCO ; Are we privileged to use this command?
34 003700 001004           BNE      1$          ; BR if OK
35 003702               FABORT #EM$BYP      ; You must have BYPASS privilege for this cmd
36 003712 005762 000000G    1$: TST    CL$LIX(R2)  ; Is specified CL unit connected to a line?
37 003716 001002           BNE      2$          ; Br if so
38 003720 000167 177342    JMP    STCLNL      ; Else abort if not connected to a line
39 003724 000207           2$: RETURN

```

```
1 ;-----  
2 ; SET CL PARITY=(EVEN ODD NONE)  
3 ;  
4 ; Inputs:  
5 ; R2 = CL unit number index  
6 ; R4 = Pointer to word with parity control flags  
7 ;  
8 003726 011404 STCLPR: MOV (R4),R4 ;Get parity flags  
9 003730 016202 0000000G STCLP1: MOV CL$LIX(R2),R2 ;Get number of line CL unit is connected to  
10 003734 001406 BEQ 9$ ;Br if not assigned to a line  
11 003736 116205 0000001G MOVB LMXPRM+1(R2),R5 ;Get current control flags for line  
12 003742 042705 0000000C BIC #LP$PAR!LP$ODD,R5 ;Clear parity control flags  
13 003746 050405 BIS R4,R5 ;Put in new flags  
14 003750 000625 BR STCLS1 ;Go set value for line  
15 003752 9$: FABORT #EM$CLN ;CL unit is not assigned to a line  
16 ;  
17 ; SET CL NOPARITY  
18 ;  
19 003762 005004 STCLNP: CLR R4 ;Clear parity flags  
20 003764 000761 BR STCLP1 ;Go do the set
```

```
1 ;-----  
2 ; SET CL BITS=n  
3 ;  
4 003766 016202 000000G STCLBT: MOV CL$LIX(R2),R2 ;Get index for line CL unit is assigned to  
5 003772 001425 BEQ 9$ ;Br if not assigned to a line  
6 003774 004767 000000G CALL ACRDEC ;Accrue parameter value  
7 004000 116205 000001G MOVB LMXPRM+1(R2),R5 ;Get current flags for line  
8 004004 042705 000000G BIC #LP$7BT,R5 ;Assume 8 bits wanted  
9 004010 020127 000007 CMP R1,#7. ;7 bits wanted?  
10 004014 001003 BNE 1$ ;Br if not  
11 004016 052705 000000G BIS #LP$7BT,R5 ;Set 7 bit flag  
12 004022 000407 BR 2$  
13 004024 020127 000010 1$: CMP R1,#8. ;8 bits wanted?  
14 004030 001404 BEQ 2$ ;Br if yes  
15 004032 FABORT #EM$ICL ;Invalid character length  
16 004042 000167 177356 2$: JMP STCLS1 ;Go set value  
17 004046 FABORT #EM$CLN ;CL unit not assigned to line
```

CL

```

1 ; -----
2 ;   SET CL LINE=n
3 ;
4 004056 STCLLN:
5 ;
6 ;   Accrue the line number
7 ;
8 004056 004767 000000G     CALL    ACRDEC      ;Accrue decimal value
9 ;
10 ; Do the EMT to assign this CL unit to a line and check for errors.
11 ;
12 004062 006202           ASR     R2          ;Convert CL unit index to unit #
13 004064 010267 173754     MOV     R2, CLAEMT+2 ;Set CL unit number
14 004070 010167 173752     MOV     R1, CLAEMT+4 ;Set time-sharing line number
15 004074 012700 000042'    MOV     #CLAEMT, R0  ;Point to EMT argument block
16 004100 104375           EMT     375         ;Do the EMT
17 004102 103045           BCC     20$         ;Br if no error
18 ;
19 ; An error occurred on the EMT.
20 ; Print an error message
21 ;
22 004104 113702 000000G     MOVB   @#ERRLOC, R2  ;Get EMT error code
23 004110 120227 000002     CMPB   R2, #2.    ;Invalid CL unit # ?
24 004114 001004           BNE    3$          ;Br if not
25 004116 FABORT #EM$IUN   ;Invalid CL unit number
26 004126 120227 000003     3$:   CMPB   R2, #3.    ;Invalid line number?
27 004132 001004           BNE    4$          ;Br if not
28 004134 FABORT #EM$ILN   ;Invalid line number
29 004144 120227 000004     4$:   CMPB   R2, #4.    ;Line already in use by a CL unit?
30 004150 001004           BNE    5$          ;Br if not
31 004152 FABORT #EM$ACL   ;Line already being used by CL
32 004162 120227 000005     5$:   CMPB   R2, #5.    ;Is line in use by a time-sharing user?
33 004166 001004           BNE    6$          ;Br if not
34 004170 FABORT #EM$TSL   ;Line busy as time-sharing line
35 004200 120227 000006     6$:   CMPB   R2, #6.    ;Is this CL unit currently busy?
36 004204 001004           BNE    20$         ;Br if not
37 004206 FABORT #EM$CLB   ;This CL unit is busy
38 ;
39 ; Finished
40 ;
41 004216 000207           20$:  RETURN

```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 29
CL

```
1 ;-----  
2 ; SET CL VERSION=n  
3 ;  
4 004220 004767 000000G STCLVR: CALL ACRDEC ;Accrue parameter value  
5 004224 120127 000017 CMPB R1,#15. ;Is this a valid argument  
6 004230 002403 BLT 9$ ;Br if not  
7 004232 110167 000000G MOVB R1,CLVERS ;Set version number  
8 004236 000404 BR 10$ ;Return  
9 004240 9$: FABORT #EM$IVN ;Invalid version number  
10 ;  
11 ; Finished  
12 ;  
13 004250 000207 10$: RETURN  
14
```

```
1 ;-----  
2 ; SET CLn ENDSTRING='string'  
3 ;  
4 004252 005762 000000G CLESTR: TST CL$LIX(R2) ; Is this CL unit assigned to a line?  
5 004256 001002 BNE 2$ ; Br if yes  
6 004260 000167 177002 JMP STCLNL ; Br if not  
7 004264 010446 2$: MOV R4,-(SP)  
8 004266 010546 MOV R5,-(SP)  
9 ;  
10 ; Accrue the string  
11 ;  
12 004270 004767 000000G CALL ACRSTR ; Accrue the string  
13 ;  
14 ; Make sure the string is not too long  
15 ;  
16 004274 020027 000000G CMP R0,#CLEOFS ; Is string too long?  
17 004300 101046 BHI 10$ ; Br if yes  
18 ;  
19 ; Move string over in BLKO to allow room for ENDPAGE value in 1st word  
20 ;  
21 004302 012705 000000G MOV #BLKO,R5 ; Point to start of buffer  
22 004306 005200 INC R0 ; Get length of string with null  
23 004310 060005 ADD R0,R5 ; Point past last char in string  
24 004312 010504 MOV R5,R4  
25 004314 062704 000002 ADD #2,R4 ; Add 1 word offset  
26 004320 114544 3$: MOVB -(R5),-(R4) ; Move string over  
27 004322 077002 SOB R0,3$  
28 004324 012767 000377 000000G MOV #377,BLKO ; Set value for ENDPAGE (377=no change)  
29 ;  
30 ; Do lookup on CL unit  
31 ;  
32 004332 004767 000306 CALL CLLOOK ; Do lookup on channel 1 to CL unit  
33 ;  
34 ; Perform the .SPFUN to set the ENDSTRING  
35 ;  
36 004336 .SPFUN #XAREA,#1,#CLSFEP,#BLKO,#10.,#0  
37 004402 .CLOSE #1 ; Close the channel  
38 ;  
39 ; Finished  
40 ;  
41 004410 012605 MOV (SP)+,R5  
42 004412 012604 MOV (SP)+,R4  
43 004414 000207 RETURN  
44 ;  
45 ; String is too long  
46 ;  
47 004416 10$: FABORT #EM$STL ; String too long
```

CL

```

1          ; -----
2          ;   SET CLn TRANSLATE=(ext=int,ext=int,...)
3
4 004426 016201 000000G      CLTRNS: MOV     CL$LIX(R2),R1    ; Is this CL unit assigned to a line?
5 004432 001002               BNE     2$                  ; Br if yes
6 004434 000167 176626       JMP     STCLNL             ; Br if not
7 004440 004767 000002       2$:    CALL    PRSTRN            ; Parse the translate qualifier
8 004444 000207               RETURN
9
10
11          ; Parse a translate qualifier of the form:
12          ;   TRANSLATE=(ext=int,ext=int,...)
13          ; and store the translation table for the line.
14
15          ; Inputs:
16          ;   R1 = Line index number of line whose translation table is being set up.
17          ;   R3 = Pointer past end of keyword
18
19 004446 010446      PRSTRN: MOV     R4,-(SP)
20 004450 010546               MOV     R5,-(SP)
21
22          ; Get pointer to translation table area for this line
23
24 004452 016104 000000G      MOV     LCXTBL(R1),R4    ; Get pointer to translation table for line
25 004456 001004               BNE     7$                  ; Br if there is one
26 004460               FABORT #EM$TMT           ; No translation table allocated
27
28          ; See if equal sign and open paren follow keyword
29
30 004470 004767 000000G      7$:    CALL    SKPSPC            ; Skip over any spaces
31 004474 122327 000075       CMPB   (R3)+,#'='        ; Does equal sign follow keyword?
32 004500 001406               BEQ    1$                  ; Br if yes
33 004502 126327 177777 000050  CMPB   -1(R3),#'('       ; Did user omit equal sign?
34 004510 001413               BEQ    2$                  ; Br if yes
35 004512 005303               DEC    R3                  ; Point back to character
36 004514 000447               BR     3$                  ; Clear the translation table
37 004516 004767 000000G      1$:    CALL    SKPSPC            ; Skip more spaces
38 004522 122327 000050       CMPB   (R3)+,#'('        ; Should have open paren
39 004526 001404               BEQ    2$                  ; Br if got open paren
40 004530               FABORT #EM$CSE           ; Invalid syntax
41
42          ; Begin to accrue each value pair
43
44 004540 005005      2$:    CLR    R5                  ; Count pairs in R5
45
46          ; See if we have reached the end of the list
47
48 004542 004767 000000G      5$:    CALL    SKPSPC            ; Skip any spaces
49 004546 122327 000051       CMPB   (R3)+,#')'        ; At end of the list?
50 004552 001430               BEQ    3$                  ; Br if yes
51 004554 005303               DEC    R3                  ; Point back to character
52
53          ; See if we have room for another value
54
55 004556 020527 000000G      CMP    R5,#MXTTCT         ; Room for another value?
56 004562 103404               BLO    4$                  ; Br if yes
57 004564               FABORT #EM$TMT           ; Too many translation values

```

CL

```

58 004574 005205          4$:    INC     R5           ; Count another value
59
60
61
62 004576 004767 000000G   CALL    ACROCT      ; Accrue the external value
63 004602 110164 000001    MOVB    R1,1(R4)    ; Store in high-order byte of word
64
65
66
67 004606 004767 000000G   CALL    ACROCT      ; Accrue the internal value
68 004612 110114            MOVB    R1,(R4)    ; Store in low-order byte of word
69 004614 005724            TST     (R4)+       ; Point to next word
70 004616 004767 000000G   CALL    SKPSPC      ; Skip any spaces
71 004622 122327 000054    CMPB    (R3)+,#' ,  ; Comma separator?
72 004626 001745            BEQ     5$          ; Br if yes
73 004630 005303            DEC     R3          ; Point back to char we skipped
74 004632 000743            BR      5$          ; Loop and get rest of list
75
76
77
78 004634 005014          3$:    CLR     (R4)        ; Store a zero to terminate the list
79
80
81
82 004636 012605            MOV     (SP)+,R5
83 004640 012604            MOV     (SP)+,R4
84 004642 000207            RETURN

```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 32
CL

```
1 ;-----  
2 ; Perform a lookup on channel 1 to a specified CL unit.  
3 ;  
4 ; Inputs:  
5 ; R2 = CL unit index number.  
6 ;  
7 ; Outputs:  
8 ; Channel 1 opened to CL unit.  
9 ;  
10 004644 010246 CLLOOK: MOV R2,-(SP)  
11 ;  
12 ; Construct CL device name  
13 ;  
14 004646 006202 ASR R2 ;Get cl unit number  
15 004650 020227 000007 CMP R2,#7. ;Should this be a CL or C1 unit?  
16 004654 101405 BLOS 2$ ;Br if CL  
17 004656 162702 000010 SUB #8.,R2 ;Remove C1 unit bias  
18 004662 066702 173130 ADD R50C10,R2 ;Add "C10" to form device name  
19 004666 000402 BR 1$  
20 004670 066702 173120 2$: ADD R50CLO,R2 ;Add "CLO" to form device name  
21 004674 010267 173104 1$: MOV R2,CLDEV ;Save device name  
22 004700 .LOOKUP #XAREA,#1,#CLDEV;Open channel1 to CL unit  
23 004720 103402 BCS 10$ ;Br if error on lookup  
24 ;  
25 ; Finished  
26 ;  
27 004722 012602 MOV (SP)+,R2  
28 004724 000207 RETURN  
29 ;  
30 ; Error on lookup to CL unit  
31 ;  
32 004726 10$: FABORT #EM$IUN ; Invalid unit number
```

```
1 .SBTTL . Host
2 ; -----
3 ; SET HOST/DTE=n
4 ; Cross connect time-sharint line with CL unit.
5 ;
6 004736 004767 000000G SETHST: CALL CKTERM ;Require TERMINAL privilege for SET HOST
7 ;
8 ; Do command scanning
9 ;
10 004742 012767 177777 173114 MOV #E-1,TTXCL+4 ;Initially set CL unit to -1
11 004750 012704 001670' MOV #HOSTHD,R4 ;Point to option driver table
12 004754 004767 000000G CALL SCNOPS ;Process the command options
13 ;
14 ; Check to make sure the CL unit is assigned to a line and is not
15 ; in use by another user.
16 ;
17 004760 016705 173100 MOV TTXCL+4,R5 ;Get CL unit number
18 004764 020527 000000G CMP R5,#CLTOTAL ;Is this a valid unit number
19 004770 103404 BLO 1$ ;Br if yes
20 004772 FABORT #EM$IUN ;Invalid CL unit number
21 005002 006305 1$: ASL R5 ;Convert to CL index number
22 005004 010567 173054 MOV R5,TTXCL+4
23 005010 005765 000000G TST CL$LI(X(R5)) ;Is this CL unit connected to a line?
24 005014 001004 BNE 2$ ;Br if yes
25 005016 FABORT #EM$CLN ;Not connected to line
26 005026 010500 2$: MOV R5,R0 ;Get CL unit index
27 005030 004767 000000G CALL CKCLUS ;See if CL unit in use by another job
28 005034 006300 ASL R0 ;Any job using CL unit?
29 005036 001407 BEQ 3$ ;Br if not
30 005040 120067 000000G CMPB R0,CORUSR ;Is it our job?
31 005044 001404 BEQ 3$ ;Br if yes
32 005046 FABORT #EM$CLB ;This CL unit is busy
33 ;
34 ; Perform the connection
35 ;
36 005056 116701 000000G 3$: MOVB CORUSR,R1 ;Get our job index number
37 005062 016761 172712 000000G MOV R50HST,LPRG1(R1);Set name of running program to "$HOST$"
38 005070 016761 172706 000000G MOV R50HST+2,LPRG2(R1)
39 005076 012700 000060' MOV #TTXCL,R0 ;Point to EMT argument block
40 005102 104375 EMT 375 ;Make the cross connection
41 ;
42 ; Print message saying cross connection broken
43 ;
44 005104 016761 000000G 000000G MOV R50KMN,LPRG1(R1);Reset program name to KMON
45 005112 016761 000002G 000000G MOV R50KMN+2,LPRG2(R1)
46 005120 PRINT #TM$XBK
47 005126 000167 000000G JMP RDCMD ;Finished with command
48 ;
49 ; Process the /PORT=ddn qualifier
50 ;
51 005132 010246 HSTPRT: MOV R2,-(SP)
52 005134 004767 000000G CALL CHKEQ ;Equal sign should follow qualifier name
53 005140 004767 000000G CALL GTRD50 ;Accrue the device name
54 005144 122327 000072 CMPB (R3)+,#': ;Colon specified with device name?
55 005150 001401 BEQ 1$ ;Br if yes
56 005152 005303 DEC R3 ;Backup pointer
57 005154 016700 000000G 1$: MOV R50BUF,R0 ;Get accrued device name
```

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page 33-1
Host

```
58 005160 004767 000000G          CALL    ASNSRC      ; See if this is a logical device name
59 005164 103402                 BCS    2$          ; Br if not logical name
60 005166 016200 000000G          MOV    AT$DEV(R2),R0  ; Get physical device name
61 005172 004767 000000G          2$:   CALL    CHKCLU     ; Convert CL and C1 names to unit numbers
62 005176 103404                 BCS    10$         ; Br if not CL or C1 unit
63 005200 010067 172660          MOV    R0,TTXCL+4  ; Set CL unit number
64 005204 012602                 MOV    (SP)+,R2
65 005206 000207                 RETURN
66 005210
67
68
69
70 005220 010146          HSTDTE: MOV    R1,-(SP)
71
72
73
74 005222 004767 000000G          CALL    ACRDEC     ; Accrue the CL unit number
75 005226 010167 172632          MOV    R1,TTXCL+4  ; Store CL unit index in EMT arg block
76 005232 012601                 MOV    (SP)+,R1
77 005234 000207                 RETURN
78
79          000001          .END
```

Errors detected: 0

*** Assembler statistics

Work file reads: 0
Work file writes: 0
Size of work file: 12016 Words (47 Pages)
Size of core pool: 18176 Words (71 Pages)
Operating system: RT-11

Elapsed time: 00:01:22.17
,LP:TSKST2=DK:TSKST2/C/N:SYM

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page S-1
Cross reference table (CREF V05.05)

\$1STLG	1-73						
\$8BIT	1-111	5-20	5-21	5-47	5-77	5-78	5-79
\$ALTER	1-111	5-6	5-52	5-53			
\$AUTO	1-87	5-8	16-6	19-5			
\$CARUP	1-85						
\$CCLRN	1-86						
\$CFABT	1-106						
\$CFALL	1-112						
\$FCFCL	1-112						
\$CFDCC	1-112						
\$CFOPN	1-118						
\$CFSOT	1-110						
\$CHACT	1-61						
\$CLTST	1-96						
\$CTRLC	1-104						
\$CTRLD	1-154						
\$CTRLO	1-61						
\$CTRLS	1-91						
\$DBKMN	1-84						
\$DEAD	1-158	5-10	5-11	15-14			
\$DEBUG	1-155						
\$DEFER	1-124	5-13	5-14				
\$DETCH	1-89						
\$DIBOL	1-73						
\$DILUP	1-108	7-16	14-47	15-8	19-6	23-151	
\$DISCN	1-90						
\$DOOFF	1-114						
\$DUPRN	1-109						
\$ECHO	1-111	5-18	5-19				
\$EMTTR	1-95						
\$FORM	1-110	5-22	5-23				
\$FORMO	1-112	5-24	5-25				
\$HARD	1-158						
\$HITTY	1-72						
\$INCOR	1-128						
\$INDAB	1-159						
\$INDDF	1-157						
\$INDRN	1-157						
\$INIT	1-158						
\$INKMN	1-104						
\$KED	1-128						
\$KINIT	1-68						
\$LC	1-111	5-33	5-34				
\$LOFCF	1-203						
\$MLOCK	1-77						
\$NOIN	1-72						
\$NOINT	1-204						
\$NOWTT	1-72	23-139	23-145				
\$PAGE	1-111	5-36	5-37				
\$PHONE	1-158	5-40	5-41				
\$PRGLK	1-87						
\$QTSET	1-133	23-103	23-120				
\$QUIET	1-125	23-104	23-121				
\$RNIOP	1-205						
\$SCOPE	1-111	5-45	23-132				
\$SGALL	1-124						

CL\$OPT	1-100	24-63*	24-70*									
CL\$RQH	1-63											
CL\$SKP	1-101	5-136										
CL\$WID	1-101	5-137	24-87*									
CL\$WQH	1-63											
CL\$XLN	1-37											
CLAEMT	4-24#	28-13*	28-14*	28-15								
CLCLOP	5-96	5-98	5-102	5-104	5-106	5-110	5-112	5-114	5-117	5-119	5-122	5-124
	5-127	5-128	5-129	5-132	24-68#							
CLDEV	4-5#	32-21*	32-22									
CLDEVX	1-139											
CLEOFS	1-41	30-16										
CLESTR	5-100	30-4#										
CLFREE	1-57											
CLLINE	1-57											
CLLOOK	24-131	30-32	32-10#									
CLNCKA	5-144#	24-34										
CLOPHD	5-93#	24-31										
CLOTIR	1-65											
CLPRHD	5-130	5-151#	24-145									
CLRDTTR	5-17	18-6#										
CLREMT	4-35#	25-24										
CLRPRV	1-43	6-14										
CLRTTB	5-14	5-14	5-21	5-23	5-25	5-27	5-34	5-37	5-47	5-49	5-52	5-53
	5-61	5-63	5-78	5-79	23-166#							
CLRTTP	5-8	5-11	5-41	5-55	5-57	5-59	23-165#					
CLSFCH	1-69	24-119										
CLSFEP	1-42	30-36	30-36									
CLSFRS	1-34	24-124										
CLSFSP	1-98											
CLSPFN	24-120	24-129#										
CLTOP	5-133	24-92#										
CLTOTL	1-98	24-9	33-18									
CLTRNS	5-134	31-4#										
CLUNIT	1-57											
CLVERS	1-57	29-7*										
CLXEMT	4-30#	25-13										
CMDBUF	1-164	1-181										
CMDCCL	1-196											
CMDDSN	1-29											
CMDFRM	1-29											
CMDHD	1-28											
CMDMEM	1-30											
CMDOFF	1-28											
CMDSET	1-30											
CMDSHO	1-30											
CMDUSE	1-30											
CMDWHO	1-30											
CO\$8BT	1-115	5-125	5-126	5-127	5-128	5-129	5-132					
CO\$BNI	1-100	5-121	5-122									
CO\$BNO	1-100	5-123	5-124									
CO\$CR	1-99	5-95	5-96									
CO\$CTL	1-99	5-113	5-114									
CO\$DEF	1-66											
CO\$DTR	1-98	5-97	5-98									
CO\$FF	1-99	5-101	5-102	5-103	5-104							

DCCRD	1-137							
DCCWR	1-137							
DCTR D	1-137							
DCT WR	1-137							
DEADEV	1-171							
DELSPC	1-185							
DETARG	1-200							
DET HD	1-200							
DET TXT	1-179							
DEVHD1	1-182							
DEVIDL	1-187	1-187	1-188					
DEVUNT	1-174							
DFJMEM	1-68							
DIABFL	1-125	23-91						
DIABLO	1-147	23-92						
DIABNO	1-126	23-90						
DIVIDE	1-180							
DIVSOR	1-193							
DJABMS	1-191							
DKASHD	1-59							
DKSAV	1-164							
DLCEMT	1-30							
DLMMSG	1-191							
DLTXT	1-178							
DMTALL	1-191							
DMTARG	1-170							
DMTSUB	1-196							
DOASGN	1-85							
DORUN	1-29							
DOSTOP	1-192							
DTRCOM	18-5	18-7#						
DTREMT	4-57#	18-4*	18-6*	18-9*	18-11			
DVSHH1	1-59							
DVSHH2	1-59							
DVSHH3	1-59							
DVSTAT	1-76							
DZTXT	1-198							
EDIT	1-73							
EDTFIL	1-184							
EM\$ACL	1-54	28-31						
EM\$BYP	1-39	25-35						
EM\$CAP	1-44	11-63						
EM\$CIP	1-53							
EM\$CLB	1-54	28-37	33-32					
EM\$CLN	1-53	24-57	26-15	27-17	33-25			
EM\$CLU	1-34	15-22						
EM\$CLX	1-36	33-66						
EM\$CNO	1-44	10-34						
EM\$CPO	1-44	11-59						
EM\$CSE	1-70	24-49	31-40					
EM\$HNI	1-68							
EM\$ICL	1-52	21-15	27-15					
EM\$IDR	1-42	13-38						
EM\$ILN	1-53	1-54	7-27	14-36	16-20	17-11	18-15	28-28
EM\$IST	1-42							
EM\$IUN	1-53	24-11	24-115	24-137	28-25	32-32	33-20	

EM\$IVN	1-53	29-9
EM\$LAS	1-34	15-10
EM\$LFD	1-34	15-16
EM\$NAD	1-46	
EM\$NPD	1-53	
EM\$NPR	1-45	10-35
EM\$NSF	1-53	
EM\$NSL	1-54	
EM\$NUK	1-86	
EM\$OPR	1-36	
EM\$PTA	1-36	
EM\$PTU	1-36	
EM\$SLT	1-54	
EM\$SLW	1-54	
EM\$SPL	1-39	
EM\$STL	1-42	9-55 30-47
EM\$TMT	1-34	31-26 31-57
EM\$TSL	1-54	28-34
EM\$VIO	1-55	
EM\$WCO	1-40	
EM\$WC1	1-40	
EM\$WC2	1-40	
EM\$WC3	1-40	
EM\$WCM	1-40	
ERRLOC	1-67	28-22
ERRSEV	1-134	
ESC	1-82	
FC\$CDX	1-163	
FC\$LNK	1-163	
FD\$NAM	1-163	
FF	2-9#	
FILNAM	1-165	1-166
FKILL	1-165	7-27 7-28 10-34 10-35 11-59 11-63 13-38 14-36 15-10 15-16 15-22
	16-20	17-11 18-15 21-15 23-153 24-11 24-45 24-49 24-57 24-115 24-137 25-35
	26-15	27-15 27-17 28-25 28-28 28-31 28-34 28-37 29-9 30-47 31-26 31-40
	31-57	32-32 33-20 33-25 33-32 33-66
FPRINT	1-165	8-22 9-55
FSTDL	1-89	
FSTIOL	1-62	1-79
GAGMSG	1-190	
GENTOP	1-103	
GETKCH	1-77	
GRT1	1-144	
GTRD50	1-170	33-53
H.CSR	1-76	
H.VEC	1-76	
HANBSY	1-175	
HANCHN	1-64	
HANENT	1-75	
HANPAR	1-76	
HANSIZ	1-75	
HAZEL	1-77	23-75
HAZLFL	1-77	23-74
HAZLNO	1-77	23-73
HIMAP	1-142	
HIPRI	1-176	

HNBUF	1-174	
HOSTHD	5-159#	33-11
HSTDTE	5-160	5-161 33-70#
HSTPRT	5-162	33-51#
HUPARG	1-195	
II\$\$SZ	1-46	
II\$FLG	1-46	
II\$NAM	1-46	
II\$NPV	1-48	
II\$PRV	1-48	
IIBUF	1-46	
ILLCMD	1-171	
ILSW2	1-83	14-49 23-32*
IN\$ACT	1-157	
IN\$CMD	1-157	
IN\$CNT	1-157	
INDACT	1-167	
INDERR	1-106	
INDSAV	1-157	
INDSTA	1-106	
INFOMT	1-171	
INGADR	1-46	
INGEMT	1-46	
INSTBL	1-46	
INSTBN	1-47	
INVDAT	1-200	
INVDEV	1-199	
INVEC	1-158	
INVLDM	1-195	
INVLDN	1-172	
INVOPT	1-165	1-171 1-186
INVTIM	1-191	
IOABFL	1-61	
ITRMTP	1-159	23-28*
JCXPGS	1-142	
JCXSMS	1-198	
JPWDEV	1-39	
JPWFLG	1-39	
JPWTYP	1-39	
JSTKND	1-102	
JSWLOC	1-67	
K52	1-73	
KBMSG	1-180	
KBTX	1-184	
KCSIBF	1-169	
KCSIMS	1-170	
KDOCIN	1-28	
KED	1-73	
KILEMT	1-192	
KL3CLR	1-87	
KL4CLR	1-127	
KMNBS	1-154	
KMNCHN	1-94	
KMNHI	1-78	
KMNNAM	1-196	
KMNPGS	1-79	

KMNSTK	1-79
KMNSTR	1-79
KMNTOP	1-79
KMPRMT	1-138
L	5-5 5-5# 5-6 5-6# 5-7 5-7# 5-8 5-8# 5-9 5-9# 5-10 5-10#
	5-11 5-11# 5-12 5-12# 5-13 5-13# 5-14 5-14# 5-15 5-15# 5-16 5-16#
	5-17 5-17# 5-18 5-18# 5-19 5-19# 5-20 5-20# 5-21 5-21# 5-22 5-22#
	5-23 5-23# 5-24 5-24# 5-25 5-25# 5-26 5-26# 5-27 5-27# 5-28 5-28#
	5-29 5-29# 5-30 5-30# 5-31 5-31# 5-32 5-32# 5-33 5-33# 5-34 5-34#
	5-35 5-35# 5-36 5-36# 5-37 5-37# 5-38 5-38# 5-39 5-39# 5-40 5-40#
	5-41 5-41# 5-42 5-42# 5-43 5-43# 5-44 5-44# 5-45 5-45# 5-46 5-46#
	5-47 5-47# 5-48 5-48# 5-49 5-49# 5-50 5-50# 5-51 5-51# 5-52 5-52#
	5-53 5-53# 5-54 5-54# 5-55 5-55# 5-56 5-56# 5-57 5-57# 5-58 5-58#
	5-59 5-59# 5-60 5-60# 5-61 5-61# 5-62 5-62# 5-63 5-63# 5-64 5-64#
	5-65 5-65# 5-66 5-66# 5-67 5-67# 5-68 5-68# 5-69 5-69# 5-70 5-70#
	5-71 5-71# 5-72 5-72# 5-73 5-73# 5-74 5-74# 5-75 5-75# 5-76 5-76#
	5-77 5-77# 5-78 5-78# 5-79 5-79# 5-85 5-85# 5-86 5-86# 5-87 5-87#
	5-94 5-94# 5-95 5-95# 5-96 5-96# 5-97 5-97# 5-98 5-98# 5-99 5-99#
	5-100 5-100# 5-101 5-101# 5-102 5-102# 5-103 5-103# 5-104 5-104# 5-105 5-105#
	5-106 5-106# 5-107 5-107# 5-108 5-108# 5-109 5-109# 5-110 5-110# 5-111 5-111#
	5-112 5-112# 5-113 5-113# 5-114 5-114# 5-115 5-115# 5-116 5-116# 5-117 5-117#
	5-118 5-118# 5-119 5-119# 5-120 5-120# 5-121 5-121# 5-122 5-122# 5-123 5-123#
	5-124 5-124# 5-125 5-125# 5-126 5-126# 5-127 5-127# 5-128 5-128# 5-129 5-129#
	5-130 5-130# 5-131 5-131# 5-132 5-132# 5-133 5-133# 5-134 5-134# 5-135 5-135#
	5-136 5-136# 5-137 5-137# 5-138 5-138# 5-139 5-139# 5-140 5-140# 5-145 5-145#
	5-146 5-146# 5-152 5-152# 5-153 5-153# 5-154 5-154# 5-160 5-160# 5-161 5-161#
	5-162 5-162# 5-168 5-168# 5-169 5-169# 5-170 5-170# 5-171 5-171# 5-172 5-172#
	5-173 5-173# 5-174 5-174#
LA120	1-147 23-39
LA12FL	1-148 23-38
LA12NO	1-148 23-37
LA36	1-147 23-15
LA36FL	1-126 23-14
LA36NO	1-126 23-13
LACTIV	1-80
LAFSIZ	1-83
LBSPRI	1-160 12-16*
LCBIT	1-147
LCDTYP	1-66
LCLTXT	1-57
LCLUNT	1-62 15-20
LCOL	1-82 1-133
LCONTM	1-91
LCPUHI	1-91
LCPULO	1-91
LCXTBL	1-34 31-24
LD\$RON	1-121
LDBASE	1-122
LDCLEN	1-71
LDDEVX	1-124
LDFLAG	1-122
LDMNT	1-70
LDNAM	1-169
LDNAME	1-122
LDOPHD	1-177
LDPDEV	1-122

LDSIZE	1-122						
LF	2-4#						
LF\$OPN	1-162						
LF\$WRT	1-162						
LFWLIM	1-83						
LICTXT	1-144						
LINBUF	1-78						
LINCNT	1-80						
LINCUR	1-83						
LINFRE	1-191						
LINIR	1-65						
LINNXT	1-78						
LINPNT	1-80						
LINRTS	1-65						
LITIME	1-105						
LJSW	1-102						
LMXLN	1-158						
LMXNUM	1-156						
LMXPRM	1-159	16-7	21-5	22-9	22-17	24-102	26-11
LNAME	1-60						27-7
LNBLSKS	1-107						
LNMAP	1-113						
LNPRIM	1-113	22-25					
LNSBLK	1-108						
LNSPAC	1-117						
LOCKTX	1-180						
LOFSPC	1-110						
LOGASN	1-172						
LOGBAS	1-132	1-134					
LOGBLK	1-161						
LOGBUF	1-161						
LOGCHK	1-133						
LOGCHN	1-161						
LOGCLS	1-176						
LOGDVU	1-132	1-134					
LOGFLG	1-161						
LOGPTR	1-161						
LOMAP	1-142						
LOTBUF	1-81						
LOTNXT	1-81						
LOTPNT	1-81						
LOTSIZ	1-82						
LOTSPC	1-82						
LOUTIR	1-65						
LP\$7BT	1-52	21-8	21-11	27-8	27-11		
LP\$ODD	1-52	5-86	5-153	22-10	22-18	26-12	
LP\$PAR	1-52	5-85	5-86	5-152	5-153	22-10	22-18
LP\$SPD	1-52	16-8	24-103				26-12
LPRG1	1-145	33-37*	33-44*				
LPRG2	1-145	33-38*	33-45*				
LPRI	1-160	12-17*					
LPROG	1-90						
LPROJ	1-90						
LRBFIL	1-114						
LRDTIM	1-80						
LSCCA	1-110						

LSECPT	1-95											
LSPEMT	4-46#	16-10*	16-11*	16-12*	16-13	24-105*	24-107*	24-108				
LSTACT	1-78											
LSTATE	1-140											
LSTDL	1-89											
LSTHL	1-62											
LSTIOL	1-62											
LSTMX	1-156											
LSTPL	1-135	14-34										
LSTPRM	1-131											
LSTS1	1-140	7-14										
LSTSPL	1-76											
LSUCF	1-86											
LSW	1-61	7-16	14-47	15-8	19-6	23-151						
LSW2	1-104	5-6	5-8	5-13	5-14	5-18	5-19	5-20	5-21	5-22	5-23	5-33
	5-34	5-36	5-37	5-40	5-41	5-45	5-47	5-52	5-53	5-54	5-55	5-56
	5-57	5-58	5-59	5-60	5-61	5-62	5-63	5-77	5-78	5-79	14-49*	16-6*
	19-5*	23-6*	23-7*	23-13*	23-14*	23-29	23-32	23-37*	23-38*	23-45*	23-46*	23-52*
	23-53*	23-59*	23-60*	23-66*	23-67*	23-73*	23-74*	23-81*	23-82*	23-90*	23-91*	23-103*
LSW25	1-109	23-29*										
LSW3	1-109	5-10	5-11	15-14								
LSW4	1-127	5-24	5-25	23-104*	23-121*							
LSW5	1-87	23-139*	23-145*									
LSW6	1-155	5-48	5-49	23-138*	23-144*							
LSW7	1-159	5-26	5-27	23-16*	23-40*	23-76*	23-84*	23-93*	23-133*			
LSW8	1-123											
LSW9	1-85											
LTRMTP	1-148	23-8*	23-15*	23-28	23-39*	23-47*	23-54*	23-61*	23-68*	23-75*	23-83*	23-92*
LTSCMD	1-117											
LUNAME	1-90	10-20										
LWINDO	1-34	23-22										
MAXALC	1-63											
MAXASN	1-106											
MAXAVL	1-174											
MAXMEM	1-67											
MAXMTX	1-186											
MAXPRI	1-67	1-160										
MAXSEC	1-95											
MDT	1-77											
MHNSIZ	1-96											
MHNSMS	1-97											
MINTIM	1-95											
MISSEQ	1-175											
MNBASE	1-185											
MNBPC	1-184											
MNFLGS	1-184											
MNTARG	1-195											
MNTDEV	1-170											
MNTFUL	1-172											
MNTOP	1-185											
MNTTXT	1-197											
MONAR1	1-185											
MONAR2	1-185											
MONHD	1-185											
MONVEC	1-160	23-107	23-110	23-124	23-127							

NOSTRT	1-168	
NOTAVL	1-184	
NOTON	1-190	7-28
NOTXT	1-178	
NOUDC	1-182	
NSPLDV	1-121	
NSWPMS	1-186	
NUCHN	1-114	
NUMDCD	1-138	
NUMDEV	1-151	
NUMON	1-83	
OCTFIX	1-178	
OCTPRT	1-198	
ODTBAS	1-154	
OF\$\$SZ	1-153	
OF\$DEV	1-152	
OF\$FIL	1-152	
OF\$FLG	1-152	
OF\$UNT	1-152	
OFFEMT	1-192	
OKFEND	1-96	
OKFILE	1-96	
OPRTXT	1-57	
OPTLST	1-43	6-19
OT\$RON	1-153	
OTHRON	1-194	
OTRMNT	1-196	
OVRCOR	1-168	
PO\$BYP	1-48	25-33
PO\$DBG	1-47	
PO\$NAM	1-45	10-17
PO\$OPR	1-45	
PO\$SPV	1-43	
P2\$CGR	1-40	
P2\$TRM	1-45	
PA\$BEL	1-36	
PA\$BLD	1-35	
PA\$DSC	1-35	
PA\$DWD	1-35	
PA\$GRC	1-35	
PA\$HQL	1-35	
PA\$LET	1-35	
PA\$NWD	1-36	
PA\$UKC	1-35	
PA\$ULN	1-35	
PARHD	5-84#	20-10
PASLIN	1-134	
PAUMSG	1-164	
PBFEND	1-118	
PEKADR	1-38	
PEKEMT	1-38	
PEKSIZ	1-38	
PF\$IOW	1-155	
PF\$SYS	1-155	
PFCO	1-43	4-71 11-11
PFSO	1-43	4-64 11-10

PHYMEM	1-101		
PMBUSY	1-185		
PNAME	1-151	1-174	
POPCF	1-175		
PRGALL	1-29		
PRGSIZ	1-78		
PRGTOP	1-78		
PRIVAO	1-44		
PRIVCO	1-47	10-17	25-33
PRIVC2	1-45		
PRIVSO	1-43		
PRMBUF	1-131		
PRMEND	1-131		
PRMPNT	1-130		
PROSLT	1-52		
PRSTRN	22-26	31-7	31-19#
PRTBUF	1-183		
PRTDAT	1-199		
PRTDC2	1-180		
PRTDC3	1-180		
PRTDEC	1-174	8-24	8-27
PRTFIX	1-177		
PRTFNM	1-183		
PRTLN	1-174		
PRTPCT	1-193		
PRTR50	1-199		
PRTSPC	1-177		
PRTTIM	1-199		
PRTTMD	1-182		
PRTTMV	1-181		
PRTTOD	1-199		
PRTTTP	1-178		
PRTUNM	1-179		
PRTWRN	1-203		
PRVLST	1-47		
PRVOPT	1-43	5-168	
PUSHCF	1-166		
PVCEMT	4-69#	11-33*	11-45
PVNFW	1-43	11-12	
PVON	1-87		
PVSEMT	4-62#	11-32*	11-38
QHDMIS1	1-59		
QHDMIS2	1-59		
QUME	1-147		
QUMEFL	1-149		
QUMENO	1-149		
R\$CHN	1-41		
R\$XCHN	1-41		
R50BUF	1-170	24-36	33-57
R50C10	4-7#	32-18	
R50CLO	4-6#	32-20	
R50COM	1-110		
R50DIR	1-166		
R50DK	1-199		
R50DSK	1-172		
R50DUP	1-167		

TSKST2 -- Keyboard SET Command MACRO V05.05 Thursday 19-Jan-89 14:58 Page S-17
Cross reference table (CREF V05.05)

S\$LOW	1-90			
S\$MSWT	1-94			
S\$OTFN	1-88			
S\$OTLO	1-88			
S\$OTWT	1-93			
S\$QMIO	1-86			
S\$QUSR	1-145			
S\$RT	1-90			
S\$SFWT	1-93	1-145		
S\$SPCB	1-146			
S\$SPDB	1-146			
S\$SPND	1-87			
S\$TMWT	1-93			
S\$TTFN	1-88			
S\$TTSC	1-89			
S\$TWFN	1-88			
S9600	1-93	19-8		
SADM3A	5-5	23-91#		
SAUTO	5-7	19-4#		
SBPSUF	1-36			
SCHAIN	1-124			
SCNOPS	1-37	14-56	33-12	
SD\$BAK	1-127			
SD\$DEL	1-119			
SD\$FLK	1-120			
SD\$HLD	1-130			
SD\$SNG	1-129			
SD\$WFM	1-120			
SDBLK	1-121			
SDBU	1-127			
SDBUF1	1-121			
SDCB	1-135			
SDCBND	1-135			
SDCBSZ	1-140			
SDDVU	1-139			
SDFHD	1-132			
SDFLAG	1-120			
SDFORM	1-120			
SDIAB	5-15	23-90#		
SDNAME	1-140			
SDSFCB	1-119			
SDSKIP	1-127			
SEARCH	1-164	24-32		
SERFLG	1-61			
SETCL	1-26	24-8#		
SETDED	5-10	23-150#		
SETDTR	5-16	18-4#		
SETHD	1-173			
SETHST	1-26	33-6#		
SETJMP	23-31	23-33#		
SETNSC	5-46	23-132#		
SETPAR	5-38	20-4#		
SETPRC	1-27	6-6#		
SETPRM	4-16#	14-9*	14-41*	23-26
SETQUT	5-42	23-100	23-103#	23-30
SETTNW	5-75	23-144#		

SUMS	1-144					
SUPCOD	1-144					
SVT100	1-27	5-65	23-45#			
SVT200	1-27	5-66	5-67	5-70	5-71	23-52#
SVT227	1-26	5-68	23-59#			
SVT228	1-26	5-69	23-66#			
SVT50	1-27	5-72	5-73	23-6#		
SWPTX	1-180					
SXBPNP	1-69					
SYASHD	1-59					
SYHD1	1-179					
SYHD2	1-179					
SYINDEX	1-151					
SYNAME	1-152					
SYPSWD	1-39					
SYSAV	1-164					
SYSDAT	1-141					
SYTIMH	1-141					
SYTML	1-141					
SYUNIT	1-151					
TAB	2-8#					
TALEMNT	1-114					
TBL0VF	1-173					
TECO	1-73					
TK1SEC	1-143					
TK1VAL	1-141					
TM\$AUT	1-57					
TM\$CDS	1-56					
TM\$CEN	1-56					
TM\$CLO	1-58					
TM\$CL1	1-58					
TM\$CL2	1-58					
TM\$CL3	1-58					
TM\$CL4	1-58					
TM\$CL5	1-58					
TM\$CL6	1-58					
TM\$CNG	1-56					
TM\$GBL	1-49					
TM\$HPE	1-56					
TM\$HPR	1-55					
TM\$IN1	1-38					
TM\$IN2	1-38					
TM\$LCL	1-49					
TM\$LPR	1-55					
TM\$NAD	1-60					
TM\$NNR	1-38					
TM\$NSD	1-60					
TM\$PR1	1-55					
TM\$PR2	1-55					
TM\$PVA	1-44					
TM\$PVC	1-44					
TM\$RD1	1-49					
TM\$RD2	1-49					
TM\$SDN	1-60					
TM\$XBK	1-37	33-46				
TMIDLH	1-71					

TMIOH	1-71					
TMIOWH	1-70					
TMSWPH	1-71					
TMSWTH	1-71					
TMTOTH	1-70	1-193				
TMTOTL	1-70	1-193				
TMUSRH	1-70					
TOTMMS	1-197					
TOTON	1-92					
TOTXT	1-176	8-25				
TRGRET	1-144					
TRMHDI	1-56					
TRMHD2	1-56					
TRMSTR	1-166					
TSKST2	1-5#	1-28				
TSR	1-156					
TSXLN	1-144					
TSXSIT	1-144					
TSXSMS	1-198					
TTHD	5-4#	14-55				
TTXCL	4-40#	33-10*	33-17	33-22*	33-39	33-63*
TXTCL	1-91					
UC\$MDC	1-163					
UC\$NDC	1-163					
UCHAN	1-112					
UCIDEF	1-64					
UCISPC	1-96					
UCLBLK	1-162					
UCLCMD	1-28					
UCLDAT	1-162					
UCLNAM	1-117					
UERSEV	1-134					
UFORM	1-104					
UFPTRP	1-119					
UHIMEM	1-107					
UKMNAM	1-85					
UMSSMS	1-197					
UMSYTP	1-89					
UPTMMS	1-192					
USPLCH	1-92					
USRMMMS	1-198					
USRSTK	1-68					
USTART	1-103					
UTRPAD	1-67					
VCORTM	1-138					
VCSHNB	1-95					
VDBFLG	1-82					
VHIPCT	1-136					
VIMAGE	1-102					
VINTIO	1-128					
VLDSYS	1-86					
VNUMDC	1-138					
VPRIDF	1-42					
VQUANO	1-135	1-136				
VQUAN1	1-136					
VQUAN2	1-136					

VQUAN3	1-135	1-136					
VQUN1A	1-136						
VQUN1B	1-128						
VQUN1C	1-128						
VSLEDT	1-203						
VT100	1-147	23-47					
VT10FL	1-149	23-46					
VT10NO	1-149	23-45					
VT200	1-146	23-54					
VT2007	1-146	23-61					
VT2008	1-146	23-68					
VT20FL	1-150	23-53	23-60	23-67			
VT20NO	1-150	23-52	23-59	23-66			
VT52	1-147	23-8					
VT52FL	1-148	23-7					
VT52NO	1-126	23-6					
WILDFL	1-72						
WINSTT	4-82#	23-24					
WLDNAM	2-12#						
XAREA	1-165	23-107	23-110	23-124	23-127	24-132	30-36
XONEMT	4-52#	17-5*	17-6*	17-7			32-22
YESTXT	1-178						
ZCLR	1-156						

