





(1)	188	PARSE TABLES
(2)	1103	BOO\$FILESPEC - Parse file spec
(2)	1148	BOO\$USECUR - Use parameters from current image
(2)	1165	BOO\$SHOWV - Routine to show one parameter value
(2)	1323	BOO\$NOCHECK - Disable value checking
(2)	1332	BOO\$NOCHECK - Disable value checking
(2)	1344	BOO\$SEARCH - Lookup parameter name
(2)	1401	BOO\$SETVALUE - Store parameter value
(2)	1504	BOO\$SETASCII - Action routine to set ASCII parameter type
(2)	1610	BOO\$SHOVALUE - Action routine to show single value
(2)	1635	BOO\$SHOALL - Action routine to show all parameter values

```

00000001 0000 1      CMDSW=1                ; SET SWITCH TO GENERATE SYSGEN
          0000 1      .IF      NDF,CMDSW
          0000 2      .TITLE   SYSBOOTCMD - Command parsing for SYSBOOT
          0000 3      .IFF
          0000 4      .TITLE   SYSGENCMD - Command parsing for SYSGEN
          0000 5      .ENDC
          0000 6      .IDENT   'V04-000'
          0000 7      .DEFAULT DISPLACEMENT, LONG
          0000 8      :
          0000 9      :*****
          0000 10     :*
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          0000 28     :*
          0000 29     :*
          0000 30     :*****
          0000 31     :
          0000 32     :++
          0000 33     :
          0000 34     : Facility: System generation and initialization
          0000 35     :
          0000 36     : Abstract: SYSBOOTCMD is the interpreter for parameter modification
          0000 37     :         commands both at bootstrap time and as part of the sysgen utility
          0000 38     :         SYSGEN.
          0000 39     :
          0000 40     : Environment:
          0000 41     :
          0000 42     :     Both SYSGEN and SYSBOOT environments.
          0000 43     :
          0000 44     :     *****
          0000 45     :
          0000 46     :     WARNING: SYSBOOT code must be PIC
          0000 47     :
          0000 48     :     *****
          0000 49     :
          0000 50     : Author: RICHARD I. HUSTVEDT, Creation date: 4-MAY-1978
          0000 51     :
          0000 52     : Modified by:
          0000 53     :
          0000 54     :     V03-027 WHM0012          Bill Matthews          02-aug-1984
          0000 55     :     Fix bad movc instruction in BOO$SETSTART from V03-026.
          0000 56     :

```

0000	57	:	V03-026	WHM00,1	Bill Matthews	01-aug-1984	
0000	58	:		Fix SET/STARTUP bug from V03-024.			
0000	59	:					
0000	60	:	V03-025	WHM0010	Bill Matthews	23-Jul-1984	
0000	61	:		Change MSCP qualifier /SMALL to /MINIMUM and /FRACTION to			
0000	62	:		/MAXIMUM.			
0000	63	:					
0000	64	:	V03-024	WHM0009	Bill Matthews	19-Jun-1,84	
0000	65	:		Fixed LOAD<CR> accvio. Fixed SET ascii-parameter 0 bug.			
0000	66	:		Now allow an optional : and = in SET/STARTUP filespec.			
0000	67	:		Now allow optional : in device name of the CONNECT command.			
0000	68	:					
0000	69	:	V03-023	WHM0008	Bill Matthews	20-Apr-1984	
0000	70	:		Fixed SET of an ascii parameter to DEFAULT bug.			
0000	71	:		Removed USE CURRENT that read SYSGEN parameters from SYS.EXE.			
0000	72	:					
0000	73	:	V03-022	WHM0007	Bill Matthews	11-Apr-1984	
0000	74	:		Removed the QUORUM command.			
0000	75	:					
0000	76	:	V03-021	WHM0006	Bill Matthews	04-Apr-1984	
0000	77	:		Added support for sysgen ascii parameters longer than 4			
0000	78	:		characters.			
0000	79	:		Added support for a seperate default system parameter file.			
0000	80	:					
0000	81	:	V03-020	JLV0342	Jake VanNoy	3-APR-1984	
0000	82	:		Add TERMINAL/ECHO command.			
0000	83	:					
0000	84	:	V03-019	WHM0005	Bill Matthews	14-Mar-1984	
0000	85	:		Conditionally assembled IPARSE tables for SYSBOOT.			
0000	86	:		Change ascii input specifier from %A to %.			
0000	87	:		Output header for display of a single parameter value.			
0000	88	:					
0000	89	:	V03-018	WHM0004	Bill Matthews	13-Mar-1984	
0000	90	:		Move definition of BOOSGL_LOAD_ARGS from this module			
0000	91	:		to SYSGEN.MAR.			
0000	92	:					
0000	93	:	V03-017	WHM0003	Bill Matthews	23-Feb-1984	
0000	94	:		Add support for loading and starting the MSCP server.			
0000	95	:					
0000	96	:	V03-016	WHM0002	Bill Matthews	01-Feb-1984	
0000	97	:		Add support for SHOW/LGI.			
0000	98	:					
0000	99	:	V03-015	ACG0392	Andrew C. Goldstein,	19-Jan-1984 22:40	
0000	100	:		Tie off SYSSFILESCAN for IPARSE use			
0000	101	:					
0000	102	:	V03-014	WHM0001	Bill Matthews	14-Dec-1983	
0000	103	:		Add /REMOTE and /LOGICAL switches to the CONNECT CONSOLE command			
0000	104	:		Add /VECTOR_OFFSET and /CSR_OFFSET to the CONNECT command			
0000	105	:					
0000	106	:	V03-013	WHM0013	Wayne Cardoza	01-Dec-1983	
0000	107	:		Allow arbitrary ordering of install qualifiers			
0000	108	:					
0000	109	:	V03-012	JLV0311	Jake VanNoy	10-OCT-1983	
0000	110	:		Fix SHOW/ALL to really SHOW/ALL.			
0000	111	:					
0000	112	:	V03-011	SRB0103	Steve Beckhardt	.9-Sep-1983	
0000	113	:		Added temporary QUORUM command.			

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0000 114 :
0000 115 : V03-010 BLS0239 Benn Schreiber 13-Sep-1983
0000 116 : Use TPAS_SYMBOL for %A so that '$' and '_' are allowed.
0000 117 :
0000 118 : V03-009 ACG0345 Andrew C. Goldstein, 1-Aug-1983 16:53
0000 119 : Add dummy SYSSASCTOID routine for TPARSE
0000 120 :
0000 121 : V03-008 MSH0005 Maryann Hinden 13-Jul-1983
0000 122 : Don't need to echo input anymore.
0000 123 : Set ascii parameters correctly if smaller than a longword.
0000 124 :
0000 125 : V03-007 MSH0004 Maryann Hinde 24-Jun-1983
0000 126 : Change $B00DEF to $B00CMDDEF.
0000 127 :
0000 128 : V03-006 MSH0003 Maryann Hinden 10-Jun-1983
0000 129 : Use $B00DEF.
0000 130 :
0000 131 : V03-005 MSH0002 Maryann Hinden 14-Apr-1983
0000 132 : Teach SYSGEN to speak ASCII.
0000 133 :
0000 134 : V03-004 MSH0001 Maryann Hinden 24-Mar-1983
0000 135 : Preserve values for system time and base registers
0000 136 : across USE DEFAULT and USE CURRENT commands.
0000 137 :
0000 138 : V03-003 DWT0086 David W. Thiel 22-Mar-1983
0000 139 : Add PRMSM_CLUSTER to SHOW/ALL mask. Add
0000 140 : SHOW/CLUSTER.
0000 141 :
0000 142 : V03-002 WMC0001 Wayne Cardoza 12-Aug-1982
0000 143 : Add support for the /checkpoint qualifier on install /page
0000 144 :
0000 145 : V03-001 JLV0196 Jake VanNoy 17-MAR-1982
0000 146 : Add new parsing for CREATE. Add PRMSM_SCS, PRMSM_TTY
0000 147 : and PRMSM_SYSGEN to SHOW/ALL mask. Change B00$SEARCH
0000 148 : to return no such parameter if a search for a zero
0000 149 : length parameter is passed in.
0000 150 :
0000 151 : --
0000 152 :
0000 153 :
0000 154 : Include files:
0000 155 :
0000 156 : $B00CMDDEF ; Flag bits in command options longword
0000 157 : $CLUBDEF ; Cluster block offsets
0000 158 : $IPLDEF ; IPL defs
0000 159 : $PRVDEF ; Privilege definitions
0000 160 : $PCBDEF ; PCB offsets
0000 161 : $PRMDEF ; Parameter descriptor definitions
0000 162 : $SSDEF ; System messages
0000 163 : $SYSGMSGDEF ; Sysgen messages
0000 164 : $TPADEF ; Define TPARSE symbols
0000 165 :
0000 166 :
0000 167 : MACROS:
0000 168 :
0000 169 :
0000 170 : Macro to print message

```

```
0000 171 :  
0000 172 : MSG message_text  
0000 173 :  
0000 174 : .MACRO MSG_STR :  
0000 175 : BSBW BOO$FACMSG :  
0000 176 : .ASCIZ \'STR\' :  
0000 177 : .ENDM MSG :  
0000 178 :  
0000 179 :  
0000 180 : Equated Symbols:  
0000 181 :  
0000000D 0000 182 : CR=13 : Character value for carriage return  
0000000C 0000 183 : FF=12 : Character value for form feed  
0000000A 0000 184 : LF=10 : Character value for line feed  
00000100 0000 185 : BUFFER_SIZE=256  
0000 186 :
```

S  
V  
  
3  
3  
4  
  
2  
  
3  
2  
3

```
0000 188 .SBTTL PARSE TABLES
0000 189 :
0000 190 : DEFINE COMMAND SYNTAX
0000 191 :
0000 192 :
0000 193 $INIT STATE STATE1,KEYTBL ;
0000 194 $STATE ;
0000 195 $STRAN !DISABLCMD,TPAS_EXIT ; Disable option command
0000 196 $STRAN !ENABLCMD,TPAS_EXIT ; Enable option command
0000 197 $STRAN 'HELP',TPAS_EXIT,BOOS$GIVEHELP ; Help command
0000 198 $STRAN !SETCMD,TPAS_EXIT ; Set specific value
0000 199 $STRAN !SHOCMD,TPAS_EXIT ; Show values
0000 200 $STRAN !USECMD,TPAS_EXIT ; Set background values
0000 201 $STRAN 'EXIT',TPAS_EXIT,,BOOCMD$M_CONT,BOOS$GL_CMDOPT ; Same as continu
0000 202 :
0000 203 .IF NDF,CMDSW ;SYSBOOT specific commands
0000 204 $STRAN 'CONTINUE',TPAS_EXIT,,BOOCMD$M_CONT,BOOS$GL_CMDOPT ; Continue command
0000 205 :
0000 206 .IFF ;SYSGEN specific commands
0000 207 $STRAN !ADPCMD,TPAS_EXIT,BOOS$CONADP ; Set adapter TR number
0000 208 $STRAN !CONNECTCMD,TPAS_EXIT,BOOS$CONNECT ; Connect command
0000 209 $STRAN !CREATECMD,TPAS_EXIT,BOOS$CREATE ; Create dump/page/swap file
0000 210 $STRAN !INSTALCMD,TPAS_EXIT,BOOS$INSTALL ; Install swap/page file
0000 211 $STRAN !LOADCMD,TPAS_EXIT,BOOS$LOAD ; Load driver
0000 212 $STRAN !RELOADCMD,TPAS_EXIT,BOOS$RELOAD ; Reload driver
0000 213 $STRAN !MSCPCMD,TPAS_EXIT,BOOS$LOAD ; Load and start the MSCP server
0000 214 $STRAN !SHARECMD,TPAS_EXIT,GEN$SHARE ; Share command
0000 215 $STRAN !WRTCMD,TPAS_EXIT ; Write parameter file
0000 216 $STRAN !AUTOCONFIG,TPAS_EXIT ; Auto-configure command
0000 217 $STRAN !CONFIGCMD,TPAS_EXIT,BOOS$CONFIGURE
0000 218 $STRAN !TERMINALCMD,TPAS_EXIT ; terminal command
0000 219 .ENDC
0000 220 :
0000 221 $STRAN TPAS_EOS,TPAS_EXIT ; END OF LINE
0000 222 :
0000 223 :
0000 224 : Disable command
0000 225 :
0000 226 $STATE DISABLCMD ; Disable command
0000 227 $STRAN 'DISABLE' ; Command verb
0000 228 $STATE ;
0000 229 $STRAN 'CHECKS',TPAS_EXIT,BOOS$NOCHECK ; Disable value checking
0000 230 :
0000 231 : Recognize ENABLE command
0000 232 :
0000 233 $STATE ENABLCMD ; ENABLE command
0000 234 $STRAN 'ENABLE' ; Command verb
0000 235 $STATE ;
0000 236 $STRAN 'CHECKS',TPAS_EXIT,BOOS$CHECK ;
0000 237 :
0000 238 :
0000 239 : Recognize SET Command
0000 240 :
0000 241 $STATE SETCMD ; SET command
0000 242 $STRAN 'SET' ; Command verb
0000 243 $STATE ;
0000 244 $STRAN '/',SETSPEC ;
```

```

0000 245 $STRAN ' ' ,BOOS$DOT ; Use last name
0000 246 $STRAN TPAS_SYMBOL,,BOOS$SEARCH ; Lookup and verify symbol name
0000 247 $STATE
0000 248 $STRAN !ASCII,TPAS_EXIT ; Verify and set ASCII string
0000 249 $STRAN !NUMBER,TPAS_EXIT,BOOS$VALUE ; Verify and set value
0000 250 $STRAN 'DEFAULT',TPAS_EXIT,BOOS$SETDEF ; Set to default value
0000 251 $STATE SETSPEC
0000 252 $STRAN !SETSTARTUP,TPAS_EXIT ; Set startup file name
0000 253 $STRAN !SETOUTPUT,TPAS_EXIT ; Set output filespec
0000 254
0000 255 $STATE ASCII
0000 256 $STRAN '','',TPASM_BLANKS,PARMBLK+TPASL_OPTIONS; Make blanks significant
0000 257 $STATE SYMBOL
0000 258 $STRAN TPAS_SYMBOL,,BOOS$SETASCII
0000 259 $STRAN TPAS_BLANK,SYMBOL ; ignore blanks
0000 260 $STRAN '','',TPAS_EXIT,BOOS$SETBLANK; null string => all blanks
0000 261 $STATE
0000 262 $STRAN '','',TPAS_EXIT
0000 263
0000 264 $STATE SETOUTPUT
0000 265 $STRAN 'OUTPUT'
0000 266 $STATE
0000 267 $STRAN !SEPARATOR ; = or ;
0000 268 $STRAN TPAS_LAMBDA ; Or null
0000 269 $STATE
0000 270 $STRAN !FILESPEC
0000 271 $STATE
0000 272 $STRAN TPAS_EOS,TPAS_EXIT,BOOS$SET_OUTPUT
0000 273
0000 274 $STATE SETSTARTUP
0000 275 $STRAN 'STARTUP'
0000 276 $STATE
0000 277 $STRAN !SEPARATOR ; = or ;
0000 278 $STRAN TPAS_LAMBDA ; Or null
0000 279 $STATE
0000 280 $STRAN !FILESPEC
0000 281 $STATE
0000 282 $STRAN TPAS_EOS,TPAS_EXIT,BOOS$SETSTART
0000 283
0000 284 :
0000 285 : Recognize SHOW Command
0000 286 :
0000 287 $STATE SHOCMD ; SHOW command
0000 288 $STRAN 'SHOW' ; Command verb
0000 289 $STATE SHOSWITCH
0000 290 $STRAN '/'
0000 291 $STRAN ' ',SHOWONE,BOOS$DOT ; SHOW .
0000 292 $STRAN TPAS_SYMBOL,SHOWONE,BOOS$SEARCH ; Lookup and verify symbol name
0000 293 $STATE
0000 294 $STRAN 'HEX',SHOSWITCH,,BOOCMD$M_DISHEX,BOOS$GL_CMDOPT
0000 295 $STRAN 'ACP',HEXQUAL2,,PRMSM_ACP; SHOW/ACP
0000 296 :
0000 297 : Note that PRMSM ALL doesn't exist in $PRMDEF. It is used here simply as
0000 298 : a flag to BOOS$ROALL.
0000 299 :
0000001F 0000 300 PRMSV_ALL = 31
80000000 0000 301 PRMSM_ALL = 1@PRMSV_ALL

```

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0000 302
0000 303 STRAN 'ALL',HEXQUAL2,...,PRMSM ALL; SHOW/ALL
0000 304 STRAN 'RMS',HEXQUAL2,...,<PRMSM RMS>; SHOW/RMS
0000 305 STRAN 'SCS',HEXQUAL2,...,<PRMSM SCS>; SHOW/SCS
0000 306 STRAN 'SPECIAL',HEXQUAL2,...,<PRMSM SPECIAL>; SHOW/SPECIAL
0000 307 STRAN 'SYS',HEXQUAL2,...,<PRMSM SYS>; SHOW/SYS
0000 308 STRAN 'GEN',HEXQUAL2,...,<PRMSM SYSGEN>; SHOW/GEN (Sysgen Parameters)
0000 309 STRAN 'JOB',HEXQUAL2,...,<PRMSM JBC>; SHOW/JOB (Job controller)
0000 310 STRAN 'PQL',HEXQUAL2,...,<PRMSM PQL>; SHOW/PQL (Process quota list)
0000 311 STRAN 'TTY',HEXQUAL2,...,<PRMSM TTY>; SHOW/TTY
0000 312 STRAN 'LGI',HEXQUAL2,...,<PRMSM LGI>; SHOW/LGI
0000 313 STRAN 'CLUSTER',HEXQUAL2,...,<PRMSM CLUSTER>; SHOW/CLUSTER show cluster
0000 314 STRAN 'NAMES',TPAS_EXIT,BOOS$SHOWNAMES; SHOW/NAMES show parameter names
0000 315 STRAN 'MAJOR',HEXQUAL2,...,<PRMSM MAJOR>; SHOW/MAJOR show major para
0000 316 STRAN 'DYNAMIC',HEXQUAL2,...,<PRMSM DYNAMIC>; SHOW/DYNAMIC show dyn. params
0000 317 STRAN 'STARTUP',TPAS_EXIT,BOOS$HOSTART; SHO/STARTUP Show startup file
0000 318 .IF DF,CMDSW;SYSGEN specific qualifiers
0000 319 STRAN 'ADAPTER',TPAS_EXIT,BOOS$SHOW ADAPTER; SHOW/ADAPTER
0000 320 STRAN 'CONFIGURATION',SHOWCON,BOOS$RESET_IO; SHOW/CONFIGURATION
0000 321 STRAN !SHOW_UNIBUS,TPAS_EXIT; /UNIBUS
0000 322 STRAN !DEV_OR_DRIV,TPAS_EXIT; /DEVICES and /DRIVER
0000 323 .ENDC
0000 324
0000 325 $STATE SHOWONE; SHOW value_name
0000 326 STRAN TPAS_LAMBDA,TPAS_EXIT,BOOS$SHOVALUE;
0000 327
0000 328 $STATE HEXQUAL2
0000 329 STRAN !HEXQUAL,TPAS_EXIT,BOOS$HOALL
0000 330
0000 331 $STATE HEXQUAL
0000 332 STRAN '/'
0000 333 STRAN TPAS_LAMBDA,TPAS_EXIT
0000 334 $STATE
0000 335 STRAN 'HEX',TPAS_EXIT,,BOOCMD$M_DISHEX,BOOS$GL_CMDOPT
0000 336
0000 337 : Recognize USE command
0000 338 :
0000 339 $STATE USECMD;
0000 340 STRAN 'USE',,,BOOCMD$M_USEFILE,BOOS$GL_CMDOPT;
0000 341 $STATE
0000 342 STRAN !USECUR;
0000 343 STRAN !USEACT;
0000 344 STRAN !USEDEF;
0000 345 STRAN !FILESPEC,,BOOS$USEFILE;
0000 346 $STATE
0000 347 STRAN TPAS_LAMBDA,TPAS_EXIT;
0000 348
0000 349 $STATE USECUR; USE CURRENT
0000 350 STRAN 'CURRENT'
0000 351 $STATE
0000 352 STRAN TPAS_EOS,TPAS_EXIT,BOOS$USECUR
0000 353
0000 354 $STATE USEACT; USE ACTIVE
0000 355 STRAN 'ACTIVE'
0000 356 $STATE
0000 357 STRAN TPAS_EOS,TPAS_EXIT,BOOS$USEACT
0000 358

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0000 359          $STATE USEDEF                : USE DEFAULT
0000 360          $STRAN 'DEFAULT'
0000 361          $STATE
0000 362          $STRAN TPAS_EOS,TPAS_EXIT,,BOOCMD$M_DEFAULT,BOO$GL_CMDOPT ;
0000 363
0000 364 :
0000 365 : File Specification
0000 366 :
0000 367          $STATE FILESPEC                : GENERAL FILE SPEC CHECK
0000 368          $STRAN TPAS_LAMBDA,TPAS_EXIT,BOO$FILESPEC
0000 369
0000 370 :
0000 371 : RECOGNIZE NUMBER
0000 372 :
0000 373          $STATE NUMBER                    :
0000 374          $STRAN TPAS_DECIMAL,TPAS_EXIT : DECIMAL NUMBER
0000 375          $STRAN 'X'                     : BASE PREFIX
0000 376          $STATE
0000 377          $STRAN 'X',HEXNUM              : HEX BASE DESIGNATOR
0000 378          $STRAN 'O'                     : OCTAL NUMBER
0000 379          $STATE
0000 380          $STRAN TPAS_OCTAL,TPAS_EXIT   : INTRODUCED OCTAL NUMBER
0000 381          $STATE HEXNUM                  : INTRODUCED HEX NUMBER
0000 382          $STRAN TPAS_HEX,TPAS_EXIT    : HEX NUMBER
0000 383
0000 384 :
0000 385 : RECOGNIZE SWITCH/VALUE SEPARATOR
0000 386 :
0000 387          $STATE SEPARATOR                 :
0000 388          $STRAN '=' ,TPAS_EXIT          :
0000 389          $STRAN ':' ,TPAS_EXIT          :
0000 390
0000 391 :
0000 392 : Get a numeric qualifier value
0000 393 :
0000 394          $STATE VALUE                     : Get value for option
0000 395          $STRAN !SEPARATOR                :
0000 396          $STATE
0000 397          $STRAN !NUMBER,TPAS_EXIT        :
0000 398
0000 399          .IF DF,CMDSW                    :SYSGEN specific commands
0000 400 :
0000 401 : Adapter command
0000 402 :
0000 403          $STATE ADPCMD                    : Command to set adapter TR number
0000 404          $STRAN 'ADAPTER',,BOO$RESET_ADAP : Command verb
0000 405          $STATE
0000 406          $STRAN !NUMBER,TPAS_EXIT        : Numeric value
0000 407          $STRAN !ADAP_STR,TPAS_EXIT     : Generic Name
0000 408
0000 409 :
0000 410 : Autoconfigure command
0000 411 :
0000 412          $STATE AUTOCONFIG                 : Auto configure command
0000 413          $STRAN 'AUTOCONFIGURE',,BOO$RESETLIST : Command verb
0000 414          $STATE
0000 415          $STRAN 'ALL',CONFIGALL          : Configure all

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0000 416      $STRAN  !NUMBER           ; Configure one TR number
0000 417      $STRAN  !ADAP_STR2          ; Generic Name
0000 418      $STATE
0000 419      $STRAN  !AUTOOPT,TPAS_EXIT,BOOS$CONFIGONE ;
0000 420
0000 421      $STATE  CONFIGALL          ;
0000 422      $STRAN  !AUTOOPT,TPAS_EXIT,BOOS$CONFIGALL ;
0000 423
0000 424      $STATE  AUTOOPT           ; Select option
0000 425      $STRAN  '/'              ; Switch introducer
0000 426      $STRAN  TPAS_LAMBDA,TPAS_EXIT ; Else not specified
0000 427      $STATE
0000 428      $STRAN  'LOG',AUTOOPT,,BOOCMD$M_AUTOLOG,BOOS$GL_CMDOPT ; LOG DEVICES
0000 429      $STRAN  'SELECT' ,,,BOOCMD$M_SELECT,BOOS$GL_CMDOPT ; Option name
0000 430      $STRAN  'EXCLUDE' ,,,BOOCMD$M_EXCLUDE,BOOS$GL_CMDOPT
0000 431
0000 432      $STATE
0000 433      $STRAN  !SEPARATOR          ; : or =
0000 434      $STATE
0000 435      $STRAN  '('              ; Allow parentheses
0000 436      $STRAN  TPAS_LAMBDA      ; But make it optional
0000 437
0000 438      $STATE  SELECTLIST        ; Device selectlist
0000 439      $STRAN  TPAS_SYMBOL,,BOOS$MAKLIST ; Select string
0000 440      $STRAN  ')' ,AUTOOPT     ; End ')'
0000 441      $STRAN  TPAS_LAMBDA,AUTOOPT ; Else end of list
0000 442      $STATE
0000 443      $STRAN  '<','>',SELECTLIST ; Another option in list
0000 444      $STRAN  TPAS_LAMBDA,SELECTLIST ; Else end
0000 445
0000 446      :
0000 447      : CONFIGURE command
0000 448      :
0000 449
0000 450      $STATE  CONFIGCMD
0000 451      $STRAN  'CONFIGURE',,BOOS$RESET_IO ; Reset IO and AUTORESET of devices names
0000 452      $STATE
0000 453      $STRAN  !CONFIG LIST
0000 454      $STRAN  TPAS_LAMBDA,TPAS_EXIT
0000 455
0000 456      $STATE  CONFIG_LIST
0000 457      $STRAN  !CONFIG_OPT,CONFIG_LIST
0000 458      $STRAN  TPAS_LAMBDA,TPAS_EXIT
0000 459
0000 460      $STATE  CONFIG_OPT
0000 461      $STRAN  '/'
0000 462      $STATE
0000 463      $STRAN  !INPUT,TPAS_EXIT
0000 464      $STRAN  !OUTPUT,TPAS_EXIT
0000 465      $STRAN  !RESET,TPAS_EXIT
0000 466
0000 467      $STATE  INPUT
0000 468      $STRAN  'INPUT'
0000 469      $STATE
0000 470      $STRAN  !SEPARATOR
0000 471      $STATE
0000 472      $STRAN  !FILESPEC,TPAS_EXIT,BOOS$INPUT_FILE

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0000 473
0000 474      $STATE OUTPUT
0000 475      $STRAN 'OUTPUT'
0000 476      $STATE
0000 477      $STRAN !SEPARATOR
0000 478      $STATE
0000 479      $STRAN !FILESPEC,TPAS_EXIT,BOOS$OUTPUT_FILE
0000 480
0000 481      $STATE RESET
0000 482      $STRAN 'RESET',TPAS_EXIT ; No action,this is the default
0000 483      $STRAN 'NORESET',TPAS_EXIT,BOOS$NO_RESET ; Turn reset off this call
0000 484
0000 485
0000 486 :
0000 487 : Create command - Create contiguous file for paging, swapping or system dump
0000 488 :
0000 489      $STATE CREATECMD
0000 490      $STRAN 'CREATE' ; Command verb
0000 491      $STATE CROPT
0000 492      $STRAN '/' ; Create options
0000 493      $STRAN !FILESPEC,CROPT,BOOS$SETFILNAM; Set name of file
0000 494      $STRAN TPAS_EOS,TPAS_EXIT ;
0000 495
0000 496      $STATE CREATE_QUAL
0000 497      $STRAN 'CONTIGUOUS',CROPT,BOOS$CRECONTIG ; Contiguous
0000 498      $STRAN 'NOCONTIGUOUS',CROPT,BOOS$CRENCONTIG ; Set non-contiguous
0000 499      $STRAN 'SIZE' ; Get the allocation size
0000 500      $STATE
0000 501      $STRAN !VALUE,CROPT,BOOS$FILESIZE ; Set file size
0000 502 :
0000 503 : Connect command - Connect specified device and load driver if required
0000 504 :
0000 505      $STATE CONECTCMD
0000 506      $STRAN 'CONNECT',BOOS$CONRESET ; Command verb
0000 507      $STATE
0000 508      $STRAN 'CONSOLE',CONSOLCMD ; Connect console command
0000 509      $STRAN TPAS_SYMBOL,BOOS$DEVNAME; Device name
0000 510      $STATE
0000 511      $STRAN ':' ; allow an optional ":"
0000 512      $STRAN TPAS_LAMBDA
0000 513      $STATE CONOPT
0000 514      $STRAN !CONECTOPT,CONOPT ; Connect option
0000 515      $STRAN TPAS_LAMBDA,TPAS_EXIT ;
0000 516 :
0000 517 : Connect console command
0000 518 :
0000 519      $STATE CONSOLCMD
0000 520      $STRAN !CONSOLOPT,TPAS_EXIT,BOOS$CONSOLE;
0000 521
0000 522      $STATE CONSOLOPT
0000 523      $STRAN '/'
0000 524      $STRAN TPAS_LAMBDA,TPAS_EXIT
0000 525      $STATE
0000 526      $STRAN 'REMOTE',TPAS_EXIT,BOOS$CMD$M_REMOTE,BOOS$GL_CMDOPT; Connect remote co
0000 527      $STRAN 'LOGICAL',TPAS_EXIT,BOOS$CMD$M_LOGICAL,BOOS$GL_CMDOPT; Connect logical
0000 528      $STRAN TPAS_LAMBDA,TPAS_EXIT
0000 529

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0000 530 :
0000 531 :
0000 532 :
0000 533 :
0000 534 $STATE INSTALCMD ;
0000 535 $STRAN ':INSTALL' ;
0000 536 $STATE ;
0000 537 $STRAN '!FILESPEC,,BOOSSETFILNAM';
0000 538 $STATE INST1 ;
0000 539 $STRAN '/' ; Switch introducer
0000 540 $STRAN 'PAGEFILE',,BOOS PGFL
0000 541 $STRAN 'SWAPFILE',INS_EXIT
0000 542 $STRAN 'CHECKPOINT',INS_PAGE
0000 543 $STRAN 'NOCHECKPOINT',INS_PAGE,BOOS$NOCHKPNT
0000 544 $STATE ;
0000 545 $STRAN '/' ; look for the checkpoint switch
0000 546 $STRAN TPAS_EOS,TPAS_EXIT
0000 547 $STATE ;
0000 548 $STRAN 'CHECKPOINT',TPAS_EXIT
0000 549 $STRAN 'NOCHECKPOINT',TPAS_EXIT,BOOS$NOCHKPNT
0000 550 $STATE INS_PAGE
0000 551 $STRAN '/'
0000 552 $STATE ;
0000 553 $STRAN 'PAGEFILE',,BOOS$SETPGFL
0000 554 $STATE INS_EXIT
0000 555 $STRAN TPAS_EOS,TPAS_EXIT
0000 556 :
0000 557 :
0000 558 :
0000 559 $STATE LOADCMD ;
0000 560 $STRAN 'LOAD',,BOOS$CONRESET; Command verb
0000 561 $STATE ;
0000 562 $STRAN '!FILESPEC,TPAS_EXIT,BOOS$CONDRVNAM
0000 563 $STATE ;
0000 564 $STRAN TPAS_LAMBDA,MSCP
0000 565 :
0000 566 :
0000 567 :
0000 568 $STATE MSCPCMD
0000 569 $STRAN 'MSCP_LOAD',,BOOS$MSCP_RESET ; Loading and starting the MSCP server
0000 570 $STATE MSCP
0000 571 $STRAN '!MSCPOPT,MSCP
0000 572 $STRAN TPAS_LAMBDA,TPAS_EXIT
0000 573 $STATE MSCPOPT
0000 574 $STRAN '/'
0000 575 $STATE ;
0000 576 $STRAN '!MSCP_BUFFER,TPAS_EXIT,BOOS$MSCP_ARG,..2 ;BUFFERS IS PARAMETER 2
0000 577 $STRAN '!MSCP_PACKET,TPAS_EXIT,BOOS$MSCP_ARG,..3 ;PACKET IS PARAMETER 3
0000 578 $STRAN '!MSCP_HOSTS,TPAS_EXIT,BOOS$MSCP_ARG,..4 ;HOSTS IS PARAMETER 4
0000 579 $STRAN '!MSCP_TIME_OUT,TPAS_EXIT,BOOS$MSCP_ARG,..5 ;TIME OUT IS PARAMETER 5
0000 580 $STRAN '!MSCP_PRIORITY,TPAS_EXIT,BOOS$MSCP_ARG,..6 ;PRIORITY IS PARAMETER 6
0000 581 $STRAN '!MSCP_SMALL,TPAS_EXIT,BOOS$MSCP_ARG,..7 ;SMALL IS PARAMETER 7
0000 582 $STRAN '!MSCP_FRACTION,TPAS_EXIT,BOOS$MSCP_ARG,..8 ;FRACTION IS PARAMETER 8
0000 583 $STRAN '!LOAD_ARGCNT,TPAS_EXIT,BOOS$MSCP_ARG,..0 ;ARGUMENT COUNT
0000 584 $STRAN '!LOADP1,TPAS_EXIT,BOOS$MSCP_ARG,..1 ;LOAD PARAMETER 1
0000 585
0000 586 $STATE MSCP_BUFFER

```

```

0000 587      $STRAN 'BUFFER',VALUE
0000 588      $STRAN 'P2',VALUE
0000 589
0000 590      $STATE MSCP_PACKET
0000 591      $STRAN 'PACKET',VALUE
0000 592      $STRAN 'P3',VALUE
0000 593
0000 594      $STATE MSCP_HOSTS
0000 595      $STRAN 'HOSTS',VALUE
0000 596      $STRAN 'P4',VALUE
0000 597
0000 598      $STATE MSCP_TIME_OUT
0000 599      $STRAN 'TIME_OUT',VALUE
0000 600      $STRAN 'P5',VALUE
0000 601
0000 602      $STATE MSCP_PRIORITY
0000 603      $STRAN 'PRIORITY',VALUE
0000 604      $STRAN 'P6',VALUE
0000 605
0000 606      $STATE MSCP_SMALL
0000 607      $STRAN 'MINIMUM',VALUE
0000 608      $STRAN 'P7',VALUE
0000 609
0000 610      $STATE MSCP_FRACTION
0000 611      $STRAN 'MAXIMUM',VALUE
0000 612      $STRAN 'P8',VALUE
0000 613
0000 614      $STATE LOADARGCNT
0000 615      $STRAN 'ARGCOUNT',VALUE
0000 616
0000 617      $STATE LOADP1
0000 618      $STRAN 'P1',VALUE
0000 619
0000 620      :
0000 621      :
0000 622      : Recognize RELOAD command
0000 623      :
0000 624      $STATE RELOADCMD
0000 625      $STRAN 'RELOAD',LOAD1,BOOS$CONRESET; Command verb
0000 626
0000 627      :
0000 628      : Share command - Initialize and/or connect to a shared memory
0000 629      :
0000 630      $STATE SHARECMD
0000 631      $STRAN 'SHARE',GEN$SHR_RESET ; Command verb
0000 632      $STATE SHARECMDOPT
0000 633      $STRAN !SHAREOPT,SHARECMDOPT ; Command options
0000 634      $STRAN TPAS_LAMBDA
0000 635      $STATE
0000 636      $STRAN 'M' ; Multiport memory 'MPMx'
0000 637      $STATE
0000 638      $STRAN 'P'
0000 639      $STATE
0000 640      $STRAN 'M'
0000 641      $STATE
0000 642      $STRAN TPAS_DECIMAL,,GEN$SHR_UNIT ; Memory unit #
0000 643      $STATE

```

```

0000 644      $STRAN  TPAS_SYMBOL,,GEN$SHR_MEMNAME ; Memory name
0000 645      $STATE  SHROPT
0000 646      $STRAN  !SHAREOPT,SHROPT      ; Share options
0000 647      $STRAN  TPAS_EOS,TPAS_EXIT      ;
0000 648
0000 649      ;
0000 650      ; SYSGEN specific show qualifiers
0000 651      ;
0000 652      $STATE  DEV OR DRIV
0000 653      $STRAN  'DEVICES',,,,,,0      ; SHO/DEVICES[=devname]
0000 654      $STRAN  'DRIVER',,,,,,1      ; SHO/DRIVER [=devname]
0000 655      $STATE
0000 656      $STRAN  TPAS_EOS,TPAS_EXIT,BOO$SHODEV_ALL      ; SHOW ALL
0000 657      $STRAN  !SEPARATOR
0000 658      $STRAN  TPAS_LAMBDA
0000 659      $STATE
0000 660      $STRAN  TPAS_STRING,TPAS_EXIT,BOO$SHODEV      ; SHOW SPECIFIC DEVICE
0000 661
0000 662      $STATE  SHOWCON
0000 663      $STRAN  !SHOWCON_LOOP,TPAS_EXIT,BOO$SHOCONFIG
0000 664
0000 665      $STATE  SHOWCON_LOOP
0000 666      $STRAN  !SHOWCONOPT,SHOWCON_LOOP
0000 667      $STRAN  TPAS_EOS,TPAS_EXIT
0000 668      $STRAN  TPAS_LAMBDA,TPAS_FAIL
0000 669
0000 670      $STATE  SHOWCONOPT
0000 671      $STRAN  '/'
0000 672      $STATE
0000 673      $STRAN  'COMMAND_FILE',TPAS_EXIT,BOO$RESET_COMMAND ; Set command file spec
0000 674      $STRAN  !OUTPUT,TPAS_EXIT
0000 675      $STRAN  !ADAPTER,TPAS_EXIT,BOO$SET_TR
0000 676      ;
0000 677      ; SHOW /UNIBUS [/ADAPTER=n]
0000 678      ;
0000 679      $STATE  SHOW UNIBUS
0000 680      $STRAN  'UNIBUS',,,,,,0
0000 681      $STATE
0000 682      $STRAN  '/'
0000 683      $STRAN  TPAS_LAMBDA
0000 684      $STATE
0000 685      $STRAN  !ADAPTER,,BOO$SET_TR,..1
0000 686      $STRAN  TPAS_LAMBDA
0000 687      $STATE
0000 688      $STRAN  TPAS_EOS,TPAS_EXIT,BOO$SHOW_UNIBUS
0000 689
0000 690      $STATE  ADAPTER
0000 691      $STRAN  'ADAPTER',,,BOO$RESET_ADAP ; Set adapter number
0000 692      $STATE
0000 693      $STRAN  !SEPARATOR
0000 694      $STATE
0000 695      $STRAN  !NUMBER,TPAS_EXIT
0000 696      $STRAN  TPAS_LAMBDA,ADAP_STR
0000 697
0000 698      $STATE  ADAP_STR2
0000 699      $STRAN  TPAS_LAMBDA,ADAP_STR,BOO$RESET_ADAP
0000 700

```

```

0000 701          $STATE ADAP_STR
0000 702          $STRAN TPAS_ALPHA,ADAP_STR,BOOSADAP_LETTER ; One letter at a time
0000 703          $STRAN TPAS_DECIMAL,TPAS_EXIT,BOOSADAPTER_NAME ; Take number as end
0000 704
0000 705
0000 706          :
0000 707          :
0000 708          :
0000 708          $STATE TERMINALCMD
0000 709          $STRAN 'TERMINAL'
0000 710          $STATE
0000 711          $STRAN '/'
0000 712          $STATE
0000 713          $STRAN 'ECHO',TPAS_EXIT,SYSG$LOAD_TT_STR ; /ECHO only qualifier
0000 714          :
0000 715          :
0000 716          :
0000 717          :
0000 717          $STATE WRTCMD
0000 718          $STRAN 'WRITE' ; Command verb
0000 719          $STATE
0000 720          $STRAN !WRTCUR,TPAS_EXIT
0000 721          $STRAN !WRTACT,TPAS_EXIT
0000 722          $STRAN !FILESPEC,TPAS_EXIT,BOOSWRTFILE ;
0000 723
0000 724          $STATE WRTCUR ; WRITE CURRENT
0000 725          $STRAN 'CURRENT'
0000 726          $STATE
0000 727          $STRAN TPAS_EOS,TPAS_EXIT,BOOSWRTCUR
0000 728
0000 729          $STATE WRTACT ; WRITE ACTIVE
0000 730          $STRAN 'ACTIVE'
0000 731          $STATE
0000 732          $STRAN TPAS_EOS,TPAS_EXIT,BOOSWRTACT
0000 733          :
0000 734          :
0000 734          :
0000 735          :
0000 735          :
0000 736          :
0000 736          $STATE CONECTOPT
0000 737          $STRAN '/' ; Switch introducer
0000 738          $STATE
0000 739          $STRAN !ADAPTER,TPAS_EXIT,BOOSCONADP ; Adapter number
0000 740          $STRAN !NOADAPTER,TPAS_EXIT,BOOSCONNLADP ; Use null adapter
0000 741          $STRAN !CONCREG,TPAS_EXIT,BOOSCONCREG ; Control register (UBA)
0000 742          $STRAN !CONCVECTOR,TPAS_EXIT,BOOSCONCVEC ; Vector (UBA)
0000 743          $STRAN !CONCNUMVEC,TPAS_EXIT,BOOSCONCNUM ; Number of vectors
0000 744          $STRAN !CONAUNIT,TPAS_EXIT,BOOSCONAUNIT ; Adapter unit
0000 745          $STRAN !CONUNITS,TPAS_EXIT,BOOSCONUNITS ; Maximum units
0000 746          $STRAN !CONSYSID_LO,TPAS_EXIT,BOOSCONSYSID_LOW ; System ID (low)
0000 747          $STRAN !CONSYSID_HI,TPAS_EXIT,BOOSCONSYSID_HIGH ; System ID (high)
0000 748          $STRAN !CONVECOFF,TPAS_EXIT,BOOSCONVECOFFSET ; Offset to vector(combo dev
0000 749          $STRAN !CONCSROFF,TPAS_EXIT,BOOSCONCSROFFSET ; Offset to CSR(combo device
0000 750          $STRAN 'DRIVERNAME'
0000 751          $STATE
0000 752          $STRAN !SEPARATOR
0000 753          $STATE LOAD1
0000 754          $STRAN !FILESPEC,TPAS_EXIT,BOOSCONDRVNAM ; Driver name
0000 755
0000 756          $STATE CONCREG ; Control register address
0000 757          $STRAN 'CONTROLREGISTER',VALUE ;

```

0000	758	\$STRAN	'CSR',VALUE	:	Synonym
0000	759				
0000	760	\$STATE	CONVECTOR	:	Control vector address
0000	761	\$STRAN	'VECTOR',VALUE	:	
0000	762				
0000	763	\$STATE	CONCNUMVEC	:	Number of vectors
0000	764	\$STRAN	'NUMVEC',VALUE	:	
0000	765				
0000	766	\$STATE	CONUNITS	:	Maximum units
0000	767	\$STRAN	'MAXUNITS',VALUE	:	
0000	768				
0000	769	\$STATE	CONSYSID_LO	:	System id
0000	770	\$STRAN	'SYSIDLO',VALUE	:	
0000	771				
0000	772	\$STATE	CONSYSID_HI	:	System id
0000	773	\$STRAN	'SYSIDHIGH',VALUE	:	
0000	774				
0000	775	\$STATE	CONVECOFF	:	Offset to vector from start of combo vecto
0000	776	\$STRAN	'VECTOR_OFFSET',VALUE	:	
0000	777				
0000	778	\$STATE	CONCSROFF	:	Offset to CSR from start of combo CSR
0000	779	\$STRAN	'CSR_OFFSET',VALUE	:	
0000	780				
0000	781	\$STATE	CONAUNIT	:	Adapter unit number
0000	782	\$STRAN	'ADPUNIT',VALUE	:	
0000	783	\$STRAN	':',TPAS_EXIT	:	
0000	784				
0000	785	:	Recognize Share command options		
0000	786	:			
0000	787	\$STATE	SHAREOPT	:	
0000	788	\$STRAN	','	:	Switch introducer
0000	789	\$STATE		:	
0000	790	\$STRAN	!SHRGLCNT,TPAS_EXIT,GEN\$SHR_GBLCNT	:	Global Section count
0000	791	\$STRAN	!SHRMBXCNT,TPAS_EXIT,GEN\$SHR_MBXCNT	:	Mailbox count
0000	792	\$STRAN	!SHRCLFCNT,TPAS_EXIT,GEN\$SHR_CFCNT	:	Com Event Flags Clustr Cnt
0000	793	\$STRAN	!SHRGLMAX,TPAS_EXIT,GEN\$SHR_GBLMAX	:	Port max Global Sections
0000	794	\$STRAN	!SHRMBXMAX,TPAS_EXIT,GEN\$SHR_MBXMAX	:	Port max mailboxes
0000	795	\$STRAN	!SHRCEFCNT,TPAS_EXIT,GEN\$SHR_CFCNT	:	Port max Com Event Flags
0000	796	\$STRAN	!POOLCNT,TPAS_EXIT,GEN\$SHR_POOLS	:	Count of pool blocks
0000	797	\$STRAN	!POOLSIZE,TPAS_EXIT,GEN\$SHR_POOLS	:	Size of pool blocks
0000	798	\$STRAN	!PRQCNT,TPAS_EXIT,GEN\$SHR_PRQCNT	:	Count of PRQ blocks
0000	799				
0000	800	\$STRAN	!SHRSTART,TPAS_EXIT,GEN\$SHR_START	:	Start of useable mem.
0000	801	\$STRAN	'INITIALIZE',TPAS_EXIT,GEN\$SHR_INIT	:	Initialize
0000	802				
0000	803	\$STATE	SHRGLCNT	:	Global section count
0000	804	\$STRAN	'GBLSECTIONS',VALUE	:	
0000	805				
0000	806	\$STATE	SHRMBXCNT	:	Mailbox count
0000	807	\$STRAN	'MAILBOXES',VALUE	:	
0000	808				
0000	809	\$STATE	SHRCEFCNT	:	Common event flag cluster count
0000	810	\$STRAN	'CEFCENTERS',VALUE	:	
0000	811				
0000	812	\$STATE	SHRGLMAX	:	Port maximum Global Sections
0000	813	\$STRAN	'MAXGBI SECTIONS',VALUE	:	
0000	814				

```
0000 815      $STATE SHRMBXMAX      ; Port maximum Mailboxes
0000 816      $STRAN 'MAXMAILBOXES',VALUE ;
0000 817
0000 818      $STATE SHRCEFMAX      ; Port maximum Common Ev Flag Clusters
0000 819      $STRAN 'MAXCEFCLUSTERS',VALUE ;
0000 820
0000 821      $STATE POOLCNT      ; Total pool blocks count
0000 822      $STRAN 'POOLBCOUNT',VALUE ;
0000 823      $STRAN 'POOLBCNT',VALUE ;
0000 824
0000 825      $STATE POOLSIZE      ; Pool block size
0000 826      $STRAN 'POOLBSIZE',VALUE ;
0000 827
0000 828      $STATE PRQCNT      ; Total PRQ blocks count
0000 829      $STRAN 'PRQCOUNT',VALUE ;
0000 830      $STRAN 'PRQCNT',VALUE ;
0000 831
0000 832      $STATE SHRSTART      ; Starting relative PFN
0000 833      $STRAN 'START',VALUE ;
0000 834
0000 835      .ENDC      ; End SYSGEN specific command
0000 836      $END_STATE
0000 837 ;
```

```

0000 839 ; Own Storage:
0000 840 ;
0000 841 ;
00000000 842 .Psect NONPAGED_DATA, noexe,rd,wrt,quad
0000 843 ;
00010000 0000 844 BOO$GL_CMDOPT:: ; Command options
0004 845 .LONG BOO$M_TERMINAL ; Default is all off, except for terminal
0004 846 ;
0000000C 0004 847 SAVE_TODCBASE: ; Save area for system time and base
0004 848 .BLKQ 1 ; registers
00000010 000C 849 SAVE_TODR:
0010 850 .BLKL 1
00000000 0010 851 ;
0000 852 .PSECT SYSDOOCMD, LONG
0000 853 ;
00000024 0000 854 PARMBLK: ; TPARSE parameter block
0004 855 .BLKB TPASK_LENGTHO ;
00000000 0024 856 BOO$GL_DOT:: ; Last parameter address
0024 857 .LONG 0 ;
00000000 0028 858 BOO$GQ_FILDESC:: ; File name descriptor
0028 859 .LONG 0,0 ;
00000070 0030 860 BOO$GT_FILENAME:: ; File name buffer
0030 861 .BLKB 64 ;
00000138 0070 862 BOO$GT_COMBUF:: ; Command Line Buffer
0070 863 .BLKB 200 ;
0000000C8 0138 864 BOO$C_COMBUFSZ==.-BOO$GT_COMBUF ; Size of command buffer
0138 865 BOO$GT_COMSTR:: ; Command string
00000538 0138 866 .BLKB 1024 ;
00000400 0538 867 BOO$C_COMSTRLEN==.-BOO$GT_COMSTR ; Length of command string buffer
0538 868 BOO$GT_SYSNAME:: ; System name string
3A 4D 45 54 53 59 53 24 53 59 53 00' 0538 869 .ASCII \SYS$SYSTEM:SYS.EXE\ ; Name of sytem image
45 58 45 2E 53 59 53 0544
12 0538
3A 4D 45 54 53 59 53 24 53 59 53 00' 054B 870 BOO$GT_SYSPARNAME::
41 50 2E 53 59 53 53 4D 56 58 41 56 054B 871 .ASCII \SYS$SYSTEM:VAXVMSYS.PAR\; Name of the system .PAR file
52 0563
18 054B
0564 872
44 00' 0564 873 BOOST_DYNAMIC: .ascii /D/
01 0564
00' 0566 874 BOOST_NODYNAMIC: .ascii //
00 0566
0567 875
20 20 20 20 20 20 20 20 20 20 20 00' 0567 876 CUR_BLANKS: .ASCII / /
20 20 20 20 20 20 0573
11 0567
20 20 20 20 00' 0579 877 BLANKS: .ASCII / /
04 0579
057E 878
20 43 41 35 31 21 00000586'010E0000' 057E 879 CTRLSTR: .ASCID @!15AC !4(10SL) !11AC !AC@
31 28 34 21 20 20 20 20 20 20 20 058C
21 20 43 41 31 31 21 20 29 4C 53 30 0598
43 41 05A4
05A6 880
20 43 41 35 31 21 000005AE'010E0000' 05A6 881 HEXSTR: .ASCID @!15AC !4(10XL) !11AC !AC@
31 28 34 21 20 20 20 20 20 20 20 0584

```

```

21 20 43 41 31 31 21 20 29 4C 58 30 05C0
                                     43 41 05CC
21 43 41 35 31 21 000005D6'010E0000' 05CE
41 21 20 20 20 22 46 41 21 22 43 41 05DC
43 41 21 20 20 20 22 46 41 21 22 43 05E8
22 43 41 21 20 20 20 22 46 41 21 22 05F4
21 20 43 41 31 31 21 20 22 46 41 21 0600
                                     43 41 060C
31 28 23 21 20 20 00000616'010E0000' 060E
                                     20 29 43 41 37 061C
72 61 74 53 20 20 00000629'010E0000' 0621
20 64 6E 61 6D 6D 6F 63 20 70 75 74 062F
                                     43 41 21 20 3D 20 65 6C 69 66 063B
61 72 61 50 2F 21 0000064D'010E0000' 0645
73 75 20 6E 69 20 73 72 65 74 65 6D 0653
                                     43 41 21 20 3A 65 065F
61 4E 20 72 65 74 65 6D 61 72 61 50 0665
20 20 20 20 20 20 20 20 20 20 20 65 6D 0671
20 20 74 6E 65 72 72 75 43 20 20 20 067D
4D 20 20 20 74 6C 75 61 66 65 44 20 0689
78 61 4D 20 20 20 6D 75 6D 69 6E 69 0695
                                     6D 75 6D 69 06A1
6D 61 6E 79 44 20 20 74 69 6E 55 20 06A5
                                     63 69 06B1
20 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 0A 0D 06B3
20 20 20 20 20 20 20 20 20 20 2D 2D 06B5
20 20 2D 2D 2D 2D 2D 2D 2D 2D 2D 2D 06C1
20 20 20 20 20 20 2D 2D 2D 2D 2D 2D 06CD
20 20 20 20 20 20 2D 2D 2D 2D 2D 2D 06D9
20 2D 2D 2D 20 20 20 2D 2D 2D 2D 2D 06E5
20 2D 2D 2D 20 20 20 2D 2D 2D 2D 2D 06F1
20 2D 2D 2D 20 20 2D 2D 2D 2D 2D 2D 06F5
0000009E 0701

```

```

882
883 ASCSTR: .ASCID @!15AC!AC"!AF" 'AC"!AF" !AC".AF" !AC"!AF" !11AC !AC@
884
885 NCTRLSTR: .ASCID @ !#(17AC) @
886
887 SCTRLSTR: .ASCID @ Startup command file = !AC@
888
889 CTR_PARINUSE: .ASCID @!/Parameters in use: !AC@
890
891 SDVHDR:
892 .ASCII \Parameter Name Current Default Minimum Maximum\
893 .ASCII \ Unit Dynamic\
894 .ASCII <CR><LF> ; -----
895 .ASCII \-----\
896 .ASCII \ ---- -----\
897 SDVHDRLEN=-SDVHDR
898
899 .IF NDF,CMDSW ; SYSBOOCMD definitions for RIO$OUTPUT_LINE
900
901 RIO$AB_OUTBUF:: .long BUFFER_SIZE
902 .long RIO$AB_BUFFER
903 RIO$AB_BUFFER:: .blkB BUFFER_SIZE
904 RIO$GW_OUTLEN:: .word 0
905
906 BOO$GB_FILELEN: .byte 0
907 BOO$GL_FILEADDR: .long 0
908 BOO$GT_CURRENT:
909 BOO$GT_DEFAULT:
910 BOO$GL_PARINUSE: .long 0
911
912 .ENDC

```

```

0703 914 .SBTTL
0703 915 :++
0703 916 :
0703 917 : Functional Description:
0703 918 :
0703 919 :
0703 920 : Calling Sequence:
0703 921 : NONE
0703 922 :
0703 923 : Input Parameters:
0703 924 : NONE
0703 925 :
0703 926 : Implicit Inputs:
0703 927 : NONE
0703 928 :
0703 929 : Output Parameters:
0703 930 : NONE
0703 931 :
0703 932 : Implicit Outputs:
0703 933 : NONE
0703 934 :
0703 935 : Side Effects:
0703 936 : NONE
0703 937 :
0703 938 :--
0703 939 .LIST MEB ; Show macro expansions
0703 940
OFFC 0703 941 BOO$GETPARAM: .WORD ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Save all registers
0705 942
0705 943 .IF NDF,CMDSW ; SYSBOOCMD only
0705 944 :
0705 945 : Make descriptors PIC (only needed in SYSBOOCMD)
0705 946 :
0705 947 :
0705 948
0705 949 MOVAB CTRLSTR+8,CTRLSTR+4 ; Set address in descriptor
0705 950 MOVAB HEXSTR+8,HEXSTR+4 ; Set address in descriptor
0705 951 MOVAB ASCSTR+8,ASCSTR+4 ; Set address in descriptor
0705 952 MOVAB NCTRLSTR+8,NCTRLSTR+4 ; Set address in descriptor
0705 953 MOVAB SCTRLSTR+8,SCTRLSTR+4 ; Set address in descriptor
0705 954 MOVAB RIO$AB_BUFFER,-
0705 955 RIO$AB_OUTBUF+4 ; Set address in descriptor
0705 956
0705 957 .ENDC
0705 958
0705 959 READCMD:
0705 960 MOVAL PARMBLK,R7 ; Get address of parameter block
070A 961 CLRL TPA$L_STRINGCNT(R7) ; Initialize string length
070D 962 MOVAB BOO$GT_COMSTR,TPA$L_STRINGPTR(R7) ; And address
0713 963 READLINE:
0713 964 MOVAB BOO$GT_COMBUF,R2 ; Set address of buffer
0718 965 PUSHL R2 ; Set buffer address into argument list
071A 966 MOVZBL #BOO$C_COMBUFSZ,-(SP) ; and maximum size for read
071E 967 PUSHAB BOO$GT_PROMPT ; Address of prompt string
0724 968 CALLS #3,L^BOO$READPROMPT ; Prompt for and accept command
072B 969 BLBS R0,5$ ; Exit if end of file.
072E 970 RET

```

			072F	971					
			072F	972	:	Upcase input			
			072F	973					
	50	52	D0	072F	974	5\$:	MOVL	R2,R0 ; Set address of string	
	51	80	9A	0732	975		MOVZBL	(R0)+,R1 ; Get address and count	
61	8F	60	91	0735	976	7\$:	CMPB	(R0),#^A/a/ ; Lower case possible ?	
		09	1F	0739	977		BLSSU	8\$ ; No, Branch	
7A	8F	60	91	073B	978		CMPB	(R0),#^A/z/ ; Lower case possible ?	
		03	1A	073F	979		BGTRU	8\$ ; No, Branch	
	60	20	8A	0741	980		BICB2	#^X20,(R0) ; Clear bit, make character upper case	
		50	D6	0744	981	8\$:	INCL	R0 ; Increment pointer	
	EC	51	F5	0746	982		SOBGTR	R1,7\$ ; Loop	
				0749	983				
53	08	A7	0C	A7	C1	0749	984	ADDL3	TPASL_STRINGPTR(R7),TPASL_STRINGCNT(R7),R3 ; Get current pointer
		50		82	9A	074F	985	MOVZBL	(R2)+,R0 ; Get length of input line
				BF	13	0752	986	BEQL	READLINE ; Ignore null input
		51	52	D0	0754	987	MOVL	R2,R1 ; Move to LOCC address register	
		52	81	9A	0757	988	30\$:	MOVZBL	(R1)+,R2 ; Get a character
		52	2D	91	075A	989	CMPB	#^A/-/,R2 ; Is this a possible continuation?	
			1D	13	075D	990	BEQL	50\$ ; Branch if yes	
		52	21	91	075F	991	CMPB	#^A/!/,R2 ; Is this the start of a comment?	
			0B	13	0762	992	BEQL	40\$ ; Branch if yes	
			83	52	D6	0764	993	INCL	TPASL_STRINGCNT(R7) ; Bump characters in command string
		EA	50	F5	0767	994	MOVB	R2,(R3)+ ; Copy character to command string	
			4B	11	076D	996	35\$:	SOBGTR	R0,30\$ ; Continue for all characters in put
			50	D7	076F	997	40\$:	DECL	R0 ; Done, parse command
01	A1	50	21	3A	0771	998	LOCC	#^A/!/,R0,1(R1) ; One less character	
			42	13	0776	999	BEQL	PARSE ; Scan remaining string for !	
			51	D6	0778	1000	INCL	R1 ; None end of line first	
			EE	11	077A	1001	BRB	35\$ ; Advance to next character	
		54	53	D0	077C	1002	50\$:	MOVL	R3,R4 ; Continue with line scan
55	08	A7	D0	077F	1003		MOVL	TPASL_STRINGCNT(R7),R5 ; Save string insertion pointer	
	83	52	90	0783	1004		MOVB	R2,(R3)+ ; and current length	
		08	A7	D6	0786	1005	INCL	TPASL_STRINGCNT(R7) ; Copy to buffer anyway	
			15	11	0789	1006	BRB	65\$ ; Advance counter	
		52	81	9A	078B	1007	60\$:	MOVZBL	(R1)+,R2 ; And check for end of string
		83	52	90	078E	1008	MOVB	R2,(R3)+ ; Get another character	
		08	A7	D6	0791	1009	INCL	TPASL_STRINGCNT(R7) ; Copy to buffer	
		52	20	91	0794	1010	CMPB	#^A/7,R2 ; Bump string count	
			07	13	0797	1011	BEQL	65\$ ; Blank?	
		52	21	91	0799	1012	CMPB	#^A/!/,R2 ; Yes, still might be a continuation	
			0F	13	079C	1013	BEQL	80\$ ; Is this a comment?	
			CA	11	079E	1014	BRB	35\$ ; Branch if yes	
		E8	50	F5	07A0	1015	65\$:	SOBGTR	R0,60\$ ; Not a continuation
		53	54	D0	07A3	1016	70\$:	MOVL	R4,R3 ; Continue to end of line
08	A7	55	D0	07A6	1017		MOVL	R5,TPASL_STRINGCNT(R7) ; Drop everything after continuation	
		FF	66	31	07AA	1018	BRW	READLINE ; By restoring count	
			50	D7	07AD	1019	80\$:	DECL	R0 ; Read another line
01	A1	50	21	3A	07AF	1020	LOCC	#^A/!/,R0,1(R1) ; One less character	
			ED	13	07B4	1021	BEQL	70\$ ; Scan for end of comment	
			51	D6	07B6	1022	INCL	R1 ; None	
			E6	11	07B8	1023	CRB	65\$ ; Skip trailing !	
		67	08	D0	07BA	1024	PARSE:	MOVL	#TPASK_COUNT0,TPASL_COUNT(R7) ; and continue scan for end of line
04	A7	02	CA	07BD	1025		BISL	#TPASK_ABBREV,TPASL_OPTIONS(R7) ; Init count field	
			CA	07C1	1026		BICL2	#^C<BOOCMD\$M_NOCHECK!- ; Permit abbreviations	
				07C2	1027			BOOCMD\$M_SETOUTPUT!-	

```

00000000*EF  FFF E7FFE 8F 07C2 1028 BOOCMD$M TERMINAL>,-
                18 A7 94 07C2 1029 BOO$GL CMDOPT ; Clear all options but specified
00000000*EF  00000000*EF 9F 07CC 1030 CLR B TPASB CHAR(R7) ; Last character parsed
00000000*EF  00000000*EF 9F 07CF 1031 PUSHAB KEYTBC ; Pass address of key table
                57 DD 07D5 1032 PUSHAB STATE1 ; and state table
00000000*GF  00000000*GF 03 FB 07DB 1033 PUSHL R7 ; Set address of parameter block
                58 50 EB 07DD 1034 CALLS #3,G^LIB$TPARSE ; Parse input
                52 50 1F EO 07E4 1035 BLBS R0,20$ ; Branch if no syntax error
                07E7 1036 BBS #31,R0,15$ ; Branch if error already given
                07EB 1037
                07EB 1038 .IF NDF,CMDSW ; SYSBOOCMD
                07EB 1039 MSG <-E-Syntax error> ; SYSBOOT error message
                07EB 1040
                07EB 1041 .IFF ; SYSGENCMD
                07EB 1042
                07EB 1043
50 00000000*8F D1 07EB 1044 CMPL #LIB$_SYNTAXERR,R0 ; Tparse Syntax error ?
                10 13 07F2 1045 BEQLU 10$ ; Branch if yes
                50 D5 07F4 1046 TSTL R0 ; Zero ?
                0C 13 07F6 1047 BEQL 10$ ; Branch if yes
                50 DD 07F8 1048 PUSHL R0 ; Push REAL error code
00000000*GF  009B 01 FB 07FA 1049 CALLS #1,G^LIB$SIGNAL ; Signal Error
                31 0801 1050 BRW 30$ ; Continue
                0804 1051
                0E04 1052 ; Heuristically determine where syntax error occurred
                0804 1053
                54 18 A7 9A 0804 1054 10$: MOVZBL TPASB_CHAR(R7),R4 ; Was there a character parsed ?
                06 12 0808 1055 BNEQ 12$ ; Branch if yes
                7E 08 A7 7D 080A 1056 MOVQ TPASL_STRINGCNT(R7),-(SP) ; Push entire read-in string
                1E 11 080E 1057 BRB 14$ ; Branch
                0810 1058
52 08 A7 10 A7 C3 0810 1059 12$: SUBL3 TPASL_TOKENCNT(R7),TPASL_STRINGCNT(R7),R2 ; Length
53 0C A7 10 A7 C1 0816 1060 ADDL3 TPASL_TOKENCNT(R7),TPASL_STRINGPTR(R7),R3 ; Address
                54 2F 91 081C 1061 CMPB #'A'/'^',R4 ; Was it a qualifier error ?
                05 13 081F 1062 BEQL 13$ ; No
                7E 52 7D 0821 1063 MOVQ R2,-(SP)
                08 11 0824 1064 BRB 14$
                0826 1065
63 52 18 A7 3A 0826 1066 13$: LOCC TPASB_CHAR(R7),R2,(R3) ; Find it then
                7E 50 7D 0828 1067 MOVQ R0,-(SP) ; Push length and address
                02 DD 082E 1068 14$: PUSHL #2 ; Number of FAO params
007C809A 8F DD 0830 1069 PUSHL #SYSG$_SYNTAX ; Error message
00000000*GF 04 FB 0836 1070 CALLS #4,G^LIB$SIGNAL ; Signal the error
                083D 1071
                083D 1072 .ENDC
                083D 1073
                60 11 083D 1074 15$: BRB 30$ ; and get another command
56 00000000*EF D0 083F 1075 20$: MOVL BOO$GL CMDOPT,R6 ; Get command option flags
                58 56 08 EO 0846 1076 BBS #BOOCMD$V_CONT,R6,EXIT ; Exit if continue flag
                51 56 09 E1 084A 1077 BBC #BOOCMD$V_DEFAULT,R6,30$ ; Read another command if Help
                084E 1078
                084E 1079 ; The Default values for system parameters are selected and must be copied to ,
                084E 1080 ; the current system parameter area.
                084E 1081
00000004*EF 00000000*EF 7D 084E 1082 MOVQ EXE$GQ_TODCBASE,SAVE_TODCBASE ; Save time base register
0000000C*EF 00000000*EF D0 0859 1083 MOVL EXE$GL_TODR,SAVE_TODR ; Save time register
                0864 1084

```

	0000'8F	28	0864	1085	MOVCL	#EXESC_SYSPARSZ,-	
	00000000'EF		0868	1086		BOOSA_SYSPARAM,-	
	00000000'EF		086D	1087		EXESA_SYSPARAM	; Copy defaults
			0872	1088			
00000000'EF	00000004'EF	7D	0872	1089	MOVQ	SAVE_TODCBASE,EXESGQ_TODCBASE	; Restore
00000000'EF	0000000C'EF	D0	087D	1090	MOVL	SAVE_TODR,EXESGL_TODR	
			0888	1091			
	00000000'8F	E2	0888	1092	BBSS	#EXESV_WRITESYSPARAMS,-	; Use default => write current needed
00	00000000'GF		088E	1093		G^EXESGL_DYNAMIC_FLAGS,1\$;	
			0894	1094			1\$:
	00000000'EF	DE	0894	1095	MOVAL	BOOSGT_DEFAULT,-	
	00000000'EF		089A	1096		BOOSGL_PARINUSE	; Set default in use
	FE63	31	089F	1097	BRW	READCMD	; Read more commands
			08A2	1098			
50	01	D0	08A2	1099	EXIT: MOVL	#1,R0	; Return success
		04	08A5	1100	RET		;
			08A6	1101			

```

08A6 1103 .SBTTL BOO$FILESPEC - Parse file spec
08A6 1104 :+
08A6 1105 :
08A6 1106 : CALLING SEQUENCE:
08A6 1107 :
08A6 1108 : called as a TPARSE action routine
08A6 1109 :
08A6 1110 : INPUT:
08A6 1111 :
08A6 1112 : The tparse parameter block (AP)
08A6 1113 :
08A6 1114 : OUTPUT:
08A6 1115 :
08A6 1116 : A possible file spec is found.
08A6 1117 :
08A6 1118 : SIDE EFFECTS:
08A6 1119 :
08A6 1120 : The tparse parameter block is updated.
08A6 1121 :
08A6 1122 :-
08A6 1123 :
00FC 08A6 1124 .Entry BOO$FILESPEC, ^M<R2,R3,R4,R5,R6,R7>
08A8 1125
08A8 1126 MOVL TPASL_STRINGPTR(AP),R2 ; Get address of current parse
08AC 1127 MOVL R2,TPASL_TOKENPTR(AP) ; Set token pointer
08B0 1128 MOVL R2,BOO$G[ FILEADDR ; Set file spec pointer
08B7 1129 MOVL TPASL_STRINGCNT(AP),R3 ; Remainder of parse string length
08BB 1130 BEQL 100$ ; Error if zero
08BD 1131
08BD 1132 LOCC #^A/ /,R3,(R2) ; is there a blank?
08C1 1133 BNEQ 50$ ; Branch if yes
08C3 1134 LOCC #^A@/@,R3,(R2) ; is there a slash?
08C7 1135
50$: 08C7 1136 MOVL R0,TPASL_STRINGCNT(AP) ; Remaining length
08CB 1137 MOVL R1,TPASL_STRINGPTR(AP) ; Address of blank or slash
08CF 1138 SUBL2 R2,R1 ; Calculate length
08D2 1139 MOVL R1,TPASL_TOKENCNT(AP) ; Set length of file spec
08D6 1140 MOVB R1,BOO$GB_FILELEN ; Set length of file spec
60$: 08DD 1141 MOVL #SS$_NORMAL,R0 ; Set success
08E0 1142 BRB 110$ ; Exit
08E2 1143
50 00000000'8F 08E2 1144 100$: MOVL #LIB$_SYNTAXERR,R0
08E9 1145 110$: RET
08EA 1146

```

		08EA 1148	.SBTTL	BOO\$USECUR - Use parameters from current image
		08EA 1149	BOO\$USECUR::	: Set to current system values
50	0000054B'GF	03FC 08EA 1150	.WORD	^M<R2,R3,R4,R5,R6,R7,R8,R9>:
	5C F709'CF	9E 08EC 1151	MOVAB	G^BOO\$GT_SYSPARNAME,R0 : Get address of system .PAR file name
	10 AC 80	DE 08F3 1152	MOVAL	PARMBLK,AP : Get address of the TPARSE parameter block
	14 AC 50	9A 08F8 1153	MOVZBL	(R0)+,TPASL TOKENCNT(AP); Set up for call to BOO\$USEFILE
00000000'GF	6C	D0 08FC 1154	MOVL	R0,TPASL TOENPTR(AP) :
	17 50	FA 0900 1155	CALLG	(AP),G^BOO\$USEFILE : Call routine to process the .PAR file
	00000000'8F	E9 0907 1156	BLBC	R0,10\$ : Branch to failure code
00	00000000'GF	E5 090A 1157	BBCC	#EXESV WRITESYSPARAMS,- : Use current => no write current needed
	00000000'EF	DE 0910 1158		G^EXESGL_DYNAMIC_FLAGS,5\$:
	00000000'EF	0916 1159 5\$:	MOVAL	BOO\$GT_CURRENT,-
	50 01	091C 1160 10\$:	MOVL	BOO\$GL_PARINUSE : Set parameters in use
		D0 0921 1161	MOVL	#1,R0 : Return success
		04 0924 1162	RET	:
		0925 1163		:

```

0925 1165      .SBTTL BOO$SHOWV - Routine to show one parameter value
0925 1166      :
0925 1167      : Input Parameters:
0925 1168      : R4 - Pointer to PRM block to be displayed.
0925 1169      :
0925 1170      : Output Parameters:
0925 1171      : Content of parameter block is displayed by calling RIO$OUTPUT_LINE
0925 1172      :
0925 1173 BOO$SHOWV:
0925 1174      MOVL      (R4),R0      : Get address of value
0928 1175      MOVAB     BOO$A_SYSPARAM[R0],R0 : Add current base address
0930 1176      SUBL      #BOO$A_SYSPARAM,R0    : and subtract link-time value
0937 1177      MOVAQ    HEXSTR,R3      : Assume hex display
093C 1178      BBS       #BOOCMD$V DISHEX,-      : If set, then display hex
093E 1179      BOO$GL CMDOPT,1$      : Assume not ascii data
0944 1180      MOVAQ    CTRLSTR,R3      :
0949 1181      BBS       #PRM$V_ASCII,PRM$SL_FLAGS(R4),2$ : Branch if ascii
094E 1182 1$: BRW      15$      :
0951 1183      :
0951 1184      : ASCII data
0951 1185      :
0951 1186      :
0951 1187 2$: PUSHL     R5      : Save a register
0953 1188      SUBL2     #16,SP      : Allocate a buffer on the stack
0956 1189      MOVZBL   PRM$B_SIZE(R4),R2 : Get size (in bits)
095A 1190      ASHL     #-3,R2,R2    : Convert size from bit to byte count
095F 1191      MOVL     R2,R1      : Make a copy of the size
0962 1192      CMPL     R2,#4      : Size > 4?
0965 1193      BLEQ     3$      : If geg yes
0967 1194      MOVL     #4,R1      : Max of 4 for default, max and min
096A 1195 3$: SUBB3     R1,#5,BLANKS : Calculate number of blank spaces needed
0970 1196      PUSHR    #^M<R1,R2,R4> : Save some registers
0972 1197      MOVCS    R2,(R0),#^A/ /,#16,<3*4>(SP) : Move the parameter value into the buf
0979 1198      POPR     #^M<R1,R2,R4> : Restore the registers
097B 1199      MOVL     SP,R3      : Save a pointer to the buffer
097E 1200      SUBB3     R2,#17,CUR BLANKS : Calculate number of pad blanks
0984 1201      PUSHAL   BOOST_NODYNAMIC : Assume not dynamic
0988 1202      BBC       #PRM$V_DYNAMIC,PRM$SL_FLAGS(R4),10$ : Branch if not
098D 1203      MOVAL    BOOST_DYNAMIC,(SP) : Change to dynamic string
0992 1204 10$: PUSHAB   PRM$T_UNIT(R4) : Stack address of unit name string
0995 1205      PUSHAB   PRM$SL_MAX(R4) : Stack maximum value
0998 1206      PUSHL    R1      : and size
099A 1207      PUSHAB   BLANKS : Blanks for padding
099E 1208      PUSHAB   PRM$SL_MIN(R4) : Minimum value
09A1 1209      PUSHL    R1      : and size
09A3 1210      PUSHAB   BLANKS : Blanks for padding
09A7 1211      PUSHAB   PRM$SL_DEFAULT(R4) : Default value
09AA 1212      PUSHL    R1      : and size
09AC 1213      PUSHAB   BLANKS : Blanks for padding
09B0 1214      PUSHL    R3      : Address of current value
09B2 1215      PUSHL    R2      : and size
09B4 1216      PUSHAB   CUR BLANKS : Blanks for padding
09B8 1217      PUSHAB   PRM$T_NAME(R4) : Stack address of parameter name
09BB 1218      PUSHAB   RIO$AB_OUTBUF : Stack address of buffer descriptor
09C1 1219      PUSHAL   RIO$GW_OUTLEN : Set address of loc to receive size
09C7 1220      PUSHAB   ASCSTR : Control string for ascii
09CB 1221

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```

00000000'EF 12 FB 09CB 1222 CALLS #18,SY$FAO ; Format value for output
                    SE 10 CO 09D2 1223 ADDL2 #16,JP ; Remove the buffer from the stack
                    55 BED0 09D5 1224 POPL R5 ; Restore a register
                    41 11 09DB 1225 BRB 55$ ; and join common code
                    09DA 1226
                    09DA 1227
                    09DA 1228 ; Decimal or hex display - R3 contains address of control string
                    09DA 1229
                    46 10 09DA 1230 15$: BSBB GETDATA ; Get data item according to size
05 10 FB86 CF DF 09DC 1231 PUSHAL BOOST_NODYNAMIC ; Assume not dynamic
        A4 00 E1 09E0 1232 BBC #PRM$D_DYNAMIC,PRM$SL_FLAGS(R4),20$ ; Branch if not
        6E FB7B CF DE 09E5 1233 MOVAL BOOST_DYNAMIC,(SP) ; Change to dynamic string
                    09EA 1234
                    26 A4 9F 09EA 1235 20$: PUSHAB PRM$T_UNIT(R4) ; Stack address of unit name string
                    OC A4 DD 09ED 1236 PUSHAL PRM$SL_MAX(R4) ; Stack maximum value
                    08 A4 DD 09F0 1237 PUSHAL PRM$SL_MIN(R4) ; and minimum value
                    04 A4 DD 09F3 1238 PUSHAL PRM$SL_DEFAULT(R4) ; Default value
10 A4 1000 8F B3 09F6 1239 BITW #PRM$M_NEG,PRM$SL_FLAGS(R4) ; check for negated value
                    03 13 09FC 1240 BEQL 30$ ; Branch if not
                    6E 6E CE 09FE 1241 MNEGL (SP),(SP) ; Make absolute value
                    51 DD 0A01 1242 30$: PUSHAL R1 ; Current value
                    16 A4 9F 0A03 1243 PUSHAB PRM$T_NAME(R4) ; Stack address of parameter name
00000000'EF 7F 0A06 1244 PUSHAB RIOS$B_OUTBUF ; Stack address of buffer descriptor
00000000'EF DF 0A0C 1245 PUSHAL RIOS$GW_OUTLEN ; Set address of loc to receive size
                    53 DD 0A12 1246 PUSHAL R3 ; Push address of control string
                    0A14 1247
00000000'EF 0A FB 0A14 1248 CALLS #10,SY$FAO ; Format value for output
                    03 50 E9 0A1B 1249 55$: BLBC R0,60$
                    F5DF' 30 0A1E 1251 60$: BSBW RIOS$OUTPUT_LINE ; Output the line
                    05 0A21 1252 RSB ; and return
                    0A22 1253
                    0A22 1254 GETDATA:
51 60 51 15 A4 9A 0A22 1255 MOVZBL PRM$B_POS(R4),R1 ; GET SIZE OF DATUM
        14 A4 51 EF 0A26 1256 EXTZV R1,PRM$B_SIZE(R4),(R0),R1 ; GET DATUM
10 A4 1000 8F B3 0A2C 1257 BITW #PRM$M_NEG,PRM$SL_FLAGS(R4) ; CHECK FOR NEGATED VALUE
                    OD 13 0A32 1258 BEQL 10$ ; NO
51 60 51 15 A4 9A 0A34 1259 MOVZBL PRM$B_POS(R4),R1 ; GET POSITION AGAIN
        14 A4 51 EE 0A38 1260 EXTV R1,PRM$B_SIZE(R4),(R0),R1 ; CONVERT TO SIGNED NUMBER
        51 51 CE 0A3E 1261 MNEGL R1,R1 ; ABSOLUTE VALUE
                    05 0A41 1262 10$: RSB
                    0A42 1263
                    0A42 1264 ;
                    0A42 1265 ; Show names of parameters
                    0A42 1266 ;
                    0A42 1267 BOO$SHONAMES:
56 00000000'EF 00FC 0A42 1268 .WORD ^M<R2,R3,R4,R5,R6,R7>
                    9E 0A44 1269 MOVAB BOO$A_PMBLK,R6 ; Set base of parameter blocks
                    0A4B 1270
                    57 05 D0 0A4B 1271 10$: MOVL #5,R7 ; Init argument count
                    66 D5 0A4E 1272 TSTL (R6) ; At end of list?
                    57 13 0A50 1273 BEQL 90$ ; Yes, finished
                    51 16 A6 DE 0A52 1274 MOVAL PRM$T_NAME(R6),R1 ; Set parameter name address
                    56 32 A6 9E 0A56 1275 MOVAB PRM$C_LENGTH(R6),R6 ; Next parameter block
                    66 D5 0A5A 1276 TSTL (R6) ; At end of list?
                    26 13 0A5C 1277 BEQL 70$ ; yes
                    52 16 A6 DE 0A5E 1278 MOVAL PRM$T_NAME(R6),R2 ; Set second address

```

```

56 32 A6 57 D6 0A62 1279 INCL R7 ; Advance argument count
66 D5 9E 0A64 1280 MOVAB PRM$C_LENGTH(R6),R6 ; Next argument
18 13 0A68 1281 TSTL (R6) ; At end of list ?
53 16 A6 13 0A6A 1282 BEQL 70$ ; yes
57 D6 DE 0A6C 1283 MOVAL PRM$T_NAME(R6),R3 ; Set third address
56 32 A6 57 D6 0A70 1284 INCL R7 ; Another argument
66 D5 9E 0A72 1285 MOVAB PRM$C_LENGTH(R6),R6 ; Next parameter block
0A 13 0A76 1286 TSTL (R6) ; At end of list?
57 D6 0A78 1287 BEQL 70$ ; Yes
54 16 A6 57 D6 0A7A 1288 INCL R7 ; another argument
56 32 A6 9E 0A7C 1289 MOVAB PRM$T_NAME(R6),R4 ; Set fourth address
1E BB DE 0A80 1290 MOVAL PRM$C_LENGTH(R6),R6 ; Next parameter block
7E 57 04 C3 0A84 1291 70$: PUSHR #^M<R2,R3,R4> ; Stack args
00000000'EF 7F 0A86 1292 SUBL3 #4,R7,-(SP) ; Set number of strings on line
00000000'EF DF 0A8A 1293 PUSHAQ RIO$AB_OUTBUF ; Stack address of buffer descriptor
FB74 CF 7F 0A90 1294 PUSHAL RIO$GW_OUTLEN ; Set address of loc to receive size
00000000'EF 57 FB 0A96 1295 PUSHAQ NCTRLSTR ; Stack address of control string descr
08 50 E9 0A9A 1296 CALLS R7,SYSS$FAO ; Format value for output
F559' 30 0AA1 1297 BLBC R0,100$
A2 11 0AA4 1298 ;
50 01 D0 0AA4 1299 BSBW RIO$OUTPUT_LINE ; Output line
04 0A 0AA7 1300 BRB 10$ ; Loop
0A 0A 0AA9 1301 ;
90$: MOVL #1,R0 ; Success status
100$: RET ; Return
0AAD 1302 ;
0AAD 1303 ;
0AAD 1304 ;
0AAD 1305 ;
0AAD 1306 ; Show name of Startup command file
0AAD 1307 ;
00FC 0AAD 1308 BOO$SHOSTART: ;
0AAF 1309 .WORD ^M<R2,R3,R4,R5,R6,R7> ;
50 00000000'EF 9E 0AAF 1310 MOVAB L^EXE$GT_STARTUP,R0 ; Set address of string
0AB6 1311 $FAO_S - ;
0AB6 1312 CTRSTR = SCTRLSTR,- ; Stack address of control string descr
0AB6 1313 OUTLEN = RIO$GW_OUTLEN,- ; Set address of loc to receive size
0AB6 1314 OUTBUF = RIO$AB_OUTBUF,- ; Stack address of buffer descriptor
0AB6 1315 P1 = R0 ; Set address of startup string
50 DD 0AB6 ;
00000000'EF 7F 0AB8 ;
00000000'EF 3F 0ABE ;
FB59 CF 7F 0AC4 ;
00000000'GF 04 FB 0AC8 ;
03 50 E9 0ACF 1317 BLBC R0,10$
F52B' 30 0AD2 1318 BSBW RIO$OUTPUT_LINE
04 0AD2 1319 10$: RET ;
0AD5 1320 ;
0AD6 1321 ;

```

```
0AD6 1323      .SBTTL BOOS$NOCHECK - Disable value checking
0AD6 1324      ;
0AD6 1325      ; Disable Value Checking and Limiting
0AD6 1326      ;
0000 0AD6 1327 BOOS$NOCHECK: .WORD 0 ;
00 00000000*EF 00  E3 0AD8 1328      BBCS #BOOCMD$V_NOCHECK,BOOS$GL_CMDOPT,10$ ; Set value check inhibit
50 01  D0 0AE0 1329 10$:  MOVL #1,R0 ; Return success
04 0AE3 1330      RET ;
```



```

OAF2 1344 .SBTTL BOO$SEARCH - Lookup parameter name
OAF2 1345 :
OAF2 1346 : Input Parameters:
OAF2 1347 : TPASL_TOKENCNT(AP) - Count of characters in token
OAF2 1348 : TPASL_TOKENPTR(AP) - Address of token
OAF2 1349 :
OAF2 1350 : Output Parameters:
OAF2 1351 : TPASL_PARAM(AP) - Address of PRM block for specified parameter
OAF2 1352 : name if found.
OAF2 1353 : R0 - 0 => Name not found
OAF2 1354 : 1 => Name found
OAF2 1355 :
003C OAF2 1356 BOO$SEARCH:: .WORD ^M<R2,R3,R4,R5> ;
OAF4 1357
00000000'EF OA E1 OAF4 1358 BBC #BOOCMD$V_USEFILE, -
06 OAFB 1359 BOO$GL_CMDOPT,5$ ; Skip count check if not USE <file>
10 AC 03 91 OAF4 1360
32 18 OAFB 1361 CMPB #3,TPASL_TOKENCNT(AP) ; Check for count of characters
OAF4 1362 BGEQ 50$ ; Exit if if not > 3
54 00000000'EF 9E OB02 1364 5$: MOVAB BOO$A_PRMBLK,R4 ; Set base of parameter blocks
64 D5 OB09 1365 10$: TSTL (R4) ; Check for end of list
02 12 OB0B 1366 BNEQ 30$ ; Not yet
25 11 OB0D 1367 BRB 50$ ; Symbol not found error
55 16 A4 9E OB0F 1368 30$: MOVAB PRM$T_NAME(R4),R5 ; Get pointer to name string
85 10 AC 91 OB13 1369 CMPB TPASL_TOKENCNT(AP),(R5)+ ; Check for too many characters
08 14 OB17 1370 BGTR 35$ ; Yes, cant be a match
65 10 AC 29 OB19 1371 CMPC3 TPASL_TOKENCNT(AP),- ;
06 13 OB1C 1372 @TPASL_TOKENPTR(AP),(R5) ; Is this a match?
54 32 A4 9E OB21 1374 35$: BEQL 40$ ; Yes, return PRM pointer
E2 11 OB25 1375 MOVAB PRM$C_LENGTH(R4),R4 ; Advance to nex parameter descriptor
20 AC 54 D0 OB27 1376 40$: BRB 10$ ; and try another
F4F4 CF 54 D0 OB2B 1377 MOVL R4,TPASL_PARAM(AP) ; Return address of parameter block
50 01 D0 OB30 1378 MOVL R4,BOO$GL_DOT ; And save as dot
04 OB33 1379 RET ; Indicate success
OD 00000000'EF OA E0 OB34 1380 50$: BBS #BOOCMD$V_USEFILE,BOO$GL_CMDOPT,60$ ; No message on 'USE filename'
OB3C 1381
OB3C 1382 .IF NDF,CMD$V ; SYSBOOCMD
OB3C 1383 MSG <-E-No such parameter>
OB3C 1384 .IFF ; SYSGENCMD
007C80F2 8F DD OB3C 1385 PUSHL #SYSG$_NOPARAM ; Set message
00000000'GF 01 FB OB42 1386 CALLS #1,G^LIB$SIGNAL ; Signal
OB49 1387 .ENDC
50 02 CE OB49 1388 MNEGL #2,R0 ; Give unique error code
04 OB4C 1389 RET
OB4D 1390
OB4D 1391
OB4D 1392 :
OB4D 1393 : BOO$DOT - Use last parameter name if any
OB4D 1394 :
20 AC F4D1 CF 0000 OB4D 1395 BOO$DOT:.WORD 0 ; Null entry mask
02 12 OB4F 1396 MOVL BOO$GL_DOT,TPASL_PARAM(AP) ; Get dot address
50 D4 OB55 1397 BNEQ 10$ ; Have pointer
04 OB57 1398 CLRL R0 ; Give error status
OB59 1399 10$: RET ;

```

```

OB5A 1401      .SBTTL BOO$SETVALUE - Store parameter value
OB5A 1402      :
OB5A 1403      : Input Parameters:
OB5A 1404      : TPASL_PARAM - Address of parameter descriptor
OB5A 1405      : TPASL_NUMBER- Value to be checked and stored
OB5A 1406      :
OB5A 1407      : Output Parameters:
OB5A 1408      : If value is within bounds set by parameter descriptor, the
OB5A 1409      : value is moved to the address specified by the parameter descriptor
OB5A 1410      : RO - Completion status 0 => value out of allowable range
OB5A 1411      : 1 => legal value successfully stored
OB5A 1412      :
OB5A 1413      BOO$SETVALUE::
0010 OB5A 1414      .WORD      ^M<R4>      ; Entry mask
OB5C 1415      :
00000000'8F   E2 OB5C 1416      BBSS      #EXESV WRITESYSPARAMS,- ; Set a value => write current needed
00 00000000'GF OB62 1417      G^EXESGL_DYNAMIC_FLAGS,1$;
54 20 AC   D0 OB68 1418      1$:
10      E1 OB68 1419      MOVL     TPASL_PARAM(AP),R4      ; Get pointer to parameter descriptor
03 10 A4   E1 OB6C 1420      BBC      #PRMSV_ASCII,-      ; Ascii parameter?
0080      31 OB6E 1421      BRW     PRMSL_FLAGS(R4),10$ ; If BC no continue
01      DD OB71 1422      65$      ; Branch to error
25 00000000'EF 00 E0 OB74 1423      10$: PUSHL   #1      ; Assume good value
50 08 A4   D0 OB76 1424      BBS     #BOOCMD$V NOCHECK,BOO$GL_CMOPT,30$ ; Should values be checked
0D      19 OB7E 1425      MOVL     PRMSL_MIN(R4),RO      ; Get minimum allowable value
50 1C AC   D1 OB82 1426      BLSS    20$      ; No minimum
07      1E OB84 1427      CMPL    TPASL_NUMBER(AP),RO ; Check input value
1C AC   50 D0 OB88 1428      BGEQU   20$      ; Branch if above minimum
02      CE OB8A 1429      MOVL     RO,TPASL_NUMBER(AP) ; Use minimum value
50 0C A4   D0 OB8E 1430      MNEGL   #2,(SP)      ; Note bad value
0C      19 OB91 1431      20$: MOVL     PRMSL_MAX(R4),RO      ; Get maximum allowable value
1C AC   50 D1 OB95 1432      BLSS    30$      ; Branch if no maximum
06      1E OB97 1433      CMPL    RO,TPASL_NUMBER(AP) ; Check for maximum
1C AC   50 D0 OB9B 1434      BGEQU   30$      ; Continue if value legal
6E      D4 OB9D 1435      MOVL     RO,TPASL_NUMBER(AP) ; Limit to max value
50 20 AC   D0 OBA1 1436      CLRL    (SP)      ; Indicate error
50 50 60   D0 OBA3 1437      30$: MOVL     TPASL_PARAM(AP),RO      ; Get address at which to store
50 00000000'EF40 9E OBA7 1438      MOVL     PRMSL_ADDR(RO),RO ;
50 00000000'8F   C2 OBA9 1439      MOVAB   BOO$A_SYSPARAM[RO],RO ; Add present base of parameters
10 A4 1000 8F   B3 OBB2 1440      SUBL    #BOO$A_SYSPARAM,RO ; And subtract link-time base
05      13 OBB9 1441      BITW    #PRMSM_NEG,PRMSL_FLAGS(R4) ; Check for negative
1C AC   1C AC CE OBBF 1442      BEQL    35$      ; No
51 15 A4   9A OBC6 1443      MNEGL   TPASL_NUMBER(AP),TPASL_NUMBER(AP) ; Complement
50 8E   D0 OBCA 1444      35$: MOVZBL  PRMSB_POS(R4),R1      ; Get position
14 A4 51 1C AC F0 OBCA 1445      INSV    TPASL_NUMBER(AP),R1,PRMSB_SIZE(R4),(RO); Set value in field
50 8E   D0 OBD1 1446      40$: MOVL     (SP)+,RO      ; Get completion status
0D 50   E8 OBD4 1447      BLSS    60$      ; Low value limit
OBD6 1448      BLBS    RO,50$      ; Success, return
OBD9 1449      :
OBD9 1450      .IF     NDF,CMSW      ; SYSBOOCMD
OBD9 1451      :
OBD9 1452      MSG     <-W-Value set to maximum>
OBD9 1453      50$: RET      ; and return
OBD9 1454      60$: MSG     <-W-Value set to minimum>
OBD9 1455      RET      ;
OBD9 1456      65$: MSG     <-E-Parameter is not numeric type>
OBD9 1457      RET

```

```

OBD9 1458
OBD9 1459 .IFF ; SYSGENCMD
OBD9 1460
16 A4 9F OBD9 1461 PUSHAB PRM$T_NAME(R4) ; Address of parameter name
01 DD OBDC 1462 PUSHL #1 ; Number of FAO param's
007C9028 8F DD OBDE 1463 PUSHL #SYSG$_SETMAX ; Error status
19 11 OBE4 1464 BRB 70$
04 OBE6 1465 50$: RET
OBE7 1466
16 A4 9F OBE7 1467 60$: PUSHAB PRM$T_NAME(R4) ; Address of parameter name
01 DD OBEA 1468 PUSHL #1 ; Number of FAO param's
007C9030 8F DD OBEC 1469 PUSHL #SYSG$_SETMIN ; Error status
00 11 OBF2 1470 BRB 65$
16 A4 9F OBF4 1471 65$: PUSHAB PRM$T_NAME(R4) ; Address of parameter name
01 DD OBF7 1472 PUSHL #1 ; Number of FAO param's
007C8112 8F DD OBF9 1473 PUSHL #SYSG$_NOTASCII ; Error status
00000000'GF 03 FB OBFF 1474 70$: CALLS #3,G^L^TB$SIGNAL ; Signal
50 01 DO OC06 1475 MOVL #SS$_NORMAL,R0 ; Set success
04 OC09 1476 RET ; and return
OC0A 1477
OC0A 1478 .ENDC
OC0A 1479
OC0A 1480 ;
OC0A 1481 ; Set to default value
OC0A 1482 ;
OC0A 1483 BOO$SETDEF:
OC0A 1484 .WORD ^M<R2,R3,R4,R5,R6,R7> ;
54 20 AC DO OC0C 1485 MOVL TPASL_PARAM(AP),R4 ; Get address of parameter block
10 E0 OC10 1486 BBS #PRM$V_ASCII,- ; Ascii parameter?
08 10 A4 OC12 1487 PRM$L_FLAGS(94),10$ ; If BS yes
1C AC 04 A4 DO OC15 1488 MOVL PRM$L_DEFAULT(R4),TPASL_NUMBER(AP); Set default as value
FF3F 31 OC1A 1489 BRW BOO$SETVALUE+2 ; Call routine to set the value
14 AC 04 A4 9E OC1D 1490 10$: MOVAB PRM$L_DEFAULT(R4),TPASL_TOKENPTR(AP); Set ptr to default string
54 14 A4 9A OC22 1491 MOVZBL PRM$B_SIZE(R4),R4 ; Get size in bits
10 AC 54 FD 8F 78 OC26 1492 ASHL #-3,R4,TPASL_TOKENCNT(AP); Set size in bytes
09' 11 OC2C 1493 BRB BOO$SETASCII+2 ; Call routine to set the default string
OC2E 1494
OC2E 1495 ;
OC2E 1496 ; Set acsii parameter to all blanks
OC2E 1497 ;
OC2E 1498 BOO$SETBLANK:
00FC OC2E 1499 .WORD ^M<R2,R3,R4,R5,R6,R7>
10 AC D4 OC30 1500 CLRL TPASL_TOKENCNT(AP) ; Set string count zero (null string)
02' 11 OC33 1501 BRB BOO$SETASCII+2 ; join common code
OC35 1502

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0C35 1504 .SBTTL BOO$SETASCII - Action routine to set ASCII parameter type
0C35 1505 :
0C35 1506 : Input Parameters:
0C35 1507 : TPASL_PARAM(AP) - Address of parameter descriptor
0C35 1508 : TPASL_TOKENCNT(AP) - Length of parsed string
0C35 1509 : TPASL_TOKENPTR(AP) - Address of parsed string
0C35 1510 :
0C35 1511 : Output Parameters:
0C35 1512 : The parameter is checked to ensure it is ASCII type, then length
0C35 1513 : of the parsed string is compared to size of parameter. If no
0C35 1514 : error, then parameter is set to new string.
0C35 1515 :
00FC 0C35 1516 BOO$SETASCII::
0C35 1517 .WORD ^M<R2,R3,R4,R5,R6,R7>
0C37 1518
00 00000000'8F E2 0C37 1519 BBSS #EXESV WRITESYSPARAMS,- ; Set an value => write current needed
00 00000000'GF 0C3D 1520 G^EXESGL_DYNAMIC_FLAGS,1$;
0C43 1521 1$:
00 04 AC 00 E5 0C43 1522 BBCC #TPASV_BLANKS,TPASL_OPTIONS(AP),2$; Make blanks no longer significan
56 20 AC D0 0C48 1523 2$:
10 A6 10 E0 0C4C 1524 MOVL TPASL_PARAM(AP),R6 ; Get address of parameter block
03 0C50 1525 BBS #PRMSV_ASCII,PRMSL_FLAGS(R6),-
00AE 31 0C51 1526 5$: BRW 5$ ; If set, then ASCII type
57 14 A6 9A 0C54 1527 MOVZBL PRMSB_SIZE(R6),R7 ; Get size (in bits)
57 57 FD 8F 78 0C58 1528 ASHL #-3,R7,R7 ; Convert size from bit to byte count
57 10 AC D1 0C5D 1529 CMPL TPASL_TOKENCNT(AP),R7 ; Compare with parsed string size
03 1B 0C61 1530 BLEQU 10$ ; If LEQU, then fits
008D 31 0C63 1531 BRW 80$ ; Else string too big
01 DD 0C66 1532 10$: PUSHL #1 ; Assume success
5E 10 C2 0C68 1533 SUBL #16,SP ; Make room for octaword buffer on stack
53 14 AC D0 0C6B 1534 MOVL TPASL_TOKENPTR(AP),R3 ; Get address of token
54 10 AC D0 0C6F 1535 MOVL TPASL_TOKENCNT(AP),R4 ; Get count of token
6E 57 20 63 54 2C 0C73 1536 MOVCS R4,(R3),#^A/,R7,(SP) ; New value on stack temporarily
2D 00000000'EF 00 E0 0C79 1537 BBS #BOOCMD$V_NOCHECK,BOO$GL_CMDOPT,30$ ; If checks disabled, branch
08 A6 6E 57 2D 0C81 1538 CMPCS R7,(SP),PRMSL_MIN(R6),- ; Compare min value with parsed value
08 A6 04 0E 1E 0C89 1540 BGEQU 20$ ; Branch if input is greater
08 A6 04 2C 0C8B 1541 MOVCS #4,PRMSL_MIN(R6),- ; Set min value
6E 57 08 A6 0C8F 1542 PRMSL_MIN(R6),R7,(SP)
10 AE 02 CE 0C93 1543 MNEGL #2,16(SP) ; Ind error
15 11 0C97 1544 BRB 30$
6E 0C A6 04 2D 0C99 1545 20$: CMPCS #4,PRMSL_MAX(R6),- ; Compare max value with parsed value
57 0C A6 0C9D 1546 PRMSL_MAX(R6),R7,(SP)
08 1E 0CA1 1547 BGEQU 30$ ; Branch if input is greater
6E 0C A6 04 2C 0CA3 1548 MOVCS #4,PRMSL_MAX(R6),- ; Set max value
10 AE D4 0CAB 1549 CLRL 16(SP) ; Ind error
50 00000000'EF 40 D0 0CAE 1551 30$: MOVL PRMSL_ADDR(R6),R0 ; Get address parameter
50 00000000'8F C2 0CB1 1552 MOVAB BOO$A_SYSPARAM[R0],R0 ; Add present base of parameters
60 6E 57 28 0CB9 1553 SUBL #BOO$A_SYSPARAM,R0 ; And subtract link-time base
5E 10 C0 0CC4 1554 MOVCS R7,(SP),(R0) ; Set value in system
50 8E D0 0CC7 1555 ADDL #16,SP ; Remove value from stack
11 19 0CCA 1556 MOVL (SP)+,R0 ; Get status
OD 50 E8 0CCC 1557 BLSS 60$ ; If neg, value set to min
0CCF 1558 BLBS R0,50$ ; If LBS, success
0CCF 1559
0CCF 1560 .IF NDF,CMSW ; SYSBOOCMD

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OCCF 1561
OCCF 1562
OCCF 1563 50$: MSG <-W-Value set to maximum>
RET ; and return
OCCF 1564 60$: MSG <-W-Value set to minimum>
RET ;
OCCF 1566
OCCF 1567 .IFF ; SYSGENCMD
OCCF 1568
16 A4 9F OCCF 1569 PUSHAB PRMST_NAME(R4) ; Address of parameter name
01 DD OCD2 1570 PUSHL #1 ; Number of FAO param's
007C9028 8F DD OCD4 1571 PUSHL #SYSG$_SETMAX ; Error status
OC 11 OCDA 1572 BRB 70$
04 OCDC 1573 50$: RET
OCDD 1574
16 A4 9F OCDD 1575 60$: PUSHAB PRMST_NAME(R4) ; Address of parameter name
01 DD OCE0 1576 PUSHL #1 ; Number of FAO param's
007C9030 8F DD OCE2 1577 PUSHL #SYSG$_SETMIN ; Error status
00000000'GF 03 FB OCE8 1578 70$: CALLS #3,G^LIB$SIGNAL ; Signal
50 01 DO OCE9 1579 75$: MOVL #SS$_NORMAL,R0 ; Set success
04 OCF2 1580 RET ; and return
OCF3 1581
OCF3 1582 .ENDC
OCF3 1583
OCF3 1584 .IF NDF,CMSW ; SYSBOOCMD
OCF3 1585
OCF3 1586 80$:
OCF3 1587 MSG <-E-Specified string is too long>
OCF3 1588 RET
OCF3 1589
OCF3 1590 90$:
OCF3 1591 MSG <-E-Parameter is not ASCII type>
OCF3 1592 RET
OCF3 1593
OCF3 1594 .IFF ; SYSGENCMD
OCF3 1595
OCF3 1596 80$:
007C811A 8F DD OCF3 1597 PUSHL #SYSG$_STRTOOLNG ; Error status
00000000'GF 01 FB OCF9 1598 CALLS #1,G^LIB$SIGNAL ; Output it
ED 11 OD00 1599 BRB 75$
OD02 1600
OD02 1601 90$:
16 A4 9F OD02 1602 PUSHAB PRMST_NAME(R4) ; Address of parameter name
01 DD OD05 1603 PUSHL #1 ; FAO arg count
007C8112 8F DD OD07 1604 PUSHL #SYSG$_NOTASCII ; Error status
00000000'GF 03 FB OD0D 1605 CALLS #3,G^LIB$SIGNAL ; Output it
D9 11 OD14 1606 BRB 75$
OD16 1607
OD16 1608 .ENDC

```

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    OD16 1610      .SBTTL BOO$SHOVALUE - Action routine to show single value
    OD16 1611      :
    OD16 1612      : Input Parameters:
    OD16 1613      : TPASL_PARAMETER(AP) - Address of parameter block
    OD16 1614      :
    003C OD16 1615 BOO$SHOVALUE:
    OD16 1616      .WORD ^M<R2,R3,R4,R5>
    OD18 1617      :
    OD18 1618      : Output header
    OD18 1619      :
    OD18 1620      .IF DF,CMSW
    18 00000000'EF E1 OD18 1621      BBC #BOOCMD$V TERMINAL,- : SYSGEN Only
    OD1A 1622      BOO$GL_CMDOPT,10$ : Output header to terminals only
    OD20 1623      .ENDC
    OD20 1624
    00000000'EF 009E 8F 28 OD20 1625      MOV C3 #SDVHDRLEN,-
    00000000'EF F93E CF OD24 1626      SDVHDR,RIO$AB_BUFFER : Move in string
    009E 8F B0 OD2C 1627      MOV W #SDVHDRLEN,RIO$GW_OUTLEN : Set length
    F2C8' 30 OD35 1628      BSBW RIO$OUTPUT_LINE : Output line
    OD38 1629
    54 20 AC D0 OD38 1630 10$: MOV L TPASL_PARAM(AP),R4 : Get address of parameter block
    FBE6 30 OD3C 1631      BSBW BOO$SHOWV : Show value
    04 OD3F 1632      RET : Return with BOO$SHOWV status
    OD40 1633
  
```

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OD40 1635      .SBTTL BOO$SHOALL - Action routine to show all parameter values
OD40 1636      :
OD40 1637      : Input Parameters:
OD40 1638      (AP)          Pointer to the TPARSE table
OD40 1639      TPASL_PARAM(AP) The mask of acceptable types
OD40 1640      : Output Parameters:
OD40 1641      : All parameters except special parameters are displayed.
OD40 1642      :
OD40 1643      BOO$SHOALL:
OOFC OD40 1644      .WORD  ^M<R2,R3,R4,R5,R6,R7>  :
OD42 1645      :
OD42 1646      .IF  DF,CMDSW          : SYSGEN ONLY
OD42 1647      :
          10  E1 OD42 1648      BBC  #BOOCMD$V TERMINAL,-
09 00000000'EF OD44 1649      BOO$GL_CMDOPT,5$      : If terminal,
          7E  7C OD4A 1650      CLRQ  -(SP)          : clear the whole screen
00000000'GF  02  FB OD4C 1651      CALLS #2,G^SCR$ERASE_PAGE
OD53 1652      5$:
OD53 1653      :
OD53 1654      : Format 'Parameters in use message'
OD53 1655      :
OD53 1656      $FAO_S  CTRSTR = CTR PARINUSE,-
OD53 1657      OUTLEN = RIO$GW_OUTLEN,-
OD53 1658      OUTBUF = RIO$AB_OUTBUF,-
OD53 1659      P1 = BOO$GL_PARINUSE
          DD OD53      PUSHL  BOO$GL_PARINUSE
          7F OD59      PUSHAQ RIO$AB_OUTBUF
          3F OD5F      PUSHAW RIO$GW_OUTLEN
          7F OD65      PUSHAQ CTR PARINUSE
00000000'EF  DD OD69      CALLS  #$$T2,G^SYSS$FAO
          FB OD69      RIO$OUTPUT_LINE
          04  FB OD70 1660      BSBW
          F28D' 30 OD70 1661      RIO$OUTPUT_LINE
OD73 1662      .ENDC
OD73 1663      :
          009E 8F 28 OD73 1664      MOVCS #SDVHDRLEN,-
00000000'EF  FBEB CF OD77 1665      SDVHDR,RIO$AB_BUFFER      : Move in string
00000000'EF  009E 8F 80 OD7F 1666      MOVW  #SDVHDRLEN,RIO$GW_OUTLEN : Set length
          F275' 30 OD88 1667      BSBW  RIO$OUTPUT_LINE      : Output line
OD88 1668      :
OD88 1669      .IF  DF,CMDSW          : SYSGEN ONLY
          10  E1 OD88 1670      BBC  #BOOCMD$V TERMINAL,-
OB 00000000'EF OD8D 1671      BOO$GL_CMDOPT,7$      : If terminal,
          18  DD OD93 1672      PUSHL  #24          : use only 24 lines
          05  DD OD95 1673      PUSHL  #5          : and scroll only the bottom portion
00000000'GF  02  FB OD97 1674      CALLS #2,G^SCR$SET_SCROLL : and setup a scrolling region
OD9E 1675      7$:
OD9E 1676      .ENDC
OD9E 1677      :
          54  00000000'EF 9E OD9E 1678      MOVAB  BOO$A_PRMBLK,R4      : Set starting parameter block address
          55  20 AC  D0 ODA5 1679      MOVL   TPASL_PARAM(AP),R5      : Set mask of acceptable types
ODA9 1680      :
ODA9 1681      : Loop through all parameters
ODA9 1682      :
          64  D5 ODA9 1683      10$: TSTL  (R4)          : Check for end of list
          1C  13 ODAB 1684      BEQL  50$          : yes, done
          06 55 1F  E0 ODAD 1685      BBS   #PRM$V_ALL,R5,20$      : Branch if SHOW/ALL
          10 A4 55  D3 ODB1 1686      BITL  R5,PRM$L_FLAGS(R4)      : Is this one to output?

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      OC 13 ODB5 1687      BEQL 40$      : No, try another
      07 E1 ODB7 1688 20$: BBC      #PRMSV_SPECIAL,-      : Yes, is it a special parameter?
04 10 A4 ODB9 1689      PRMSL_FLAGS(R4),30$      : Branch if not
03 55 07 E1 ODBC 1690      BBC      #PRMSV_SPECIAL,R5,40$      : It's special - branch if unasked for
      ODC0 1691 30$:
      FB62 30 ODC0 1692      BSBW BOO$SHOWV      : Display values
54 32 A4 9E ODC3 1693 40$: MOVAB PRMSC_LENGTH(R4),R4      : Next parameter block
      E0 11 ODC7 1694      BRB 10$      :
      ODC9 1695 50$:
      ODC9 1696
      ODC9 1697 .IF      DF,CMDSW
      10 E1 ODC9 1698      BBC      #BOOCMD$V_TERMINAL,-
OB 00000000'EF ODCB 1699      BOO$GL_CMDOPT,60$      : If terminal,
      18 DD ODD1 1700      PUSHL #24      : Use only 24 lines
      01 DD ODD3 1701      PUSHL #1      : and scroll only the bottom portion
00000000'GF 02 FB ODD5 1702      CALLS #2,G^SCR$SET_SCROLL      : and setup a scrolling region
      ODDC 1703 60$:
      ODDC 1704 .ENDC
      04 ODDC 1705      RET      :

```

			0DDD	1707	:			
			0DDD	1708	:	Set name of startup command file		
			0DDD	1709	:			
			0DDD	1710	:	BOO\$SETSTART:		
	00FC		0DDD	1711	:	.WORD	^M<R2,R3,R4,R5,R6,R7>	:
			0DDF	1712	:			
	00000000'BF	E2	0DDF	1713	:	BBSS	#EXE\$V_WRITESYSPARAMS,-	: Set startup name => write current needed
	00 00000000'GF		0DE5	1714	:		G^EXE\$GL_DYNAMIC_FLAGS,1\$;	
			0DEB	1715	:	1\$:		
56	00000000'EF	9E	0DEB	1716	:	MOVAB	L^EXE\$GT_STARTUP,R6	: Point to slot for startup file name
		50	D4	0DF2	:	CLRL	R0	: Assume error
	00000000'EF	1F	91	0DF4	:	CMPB	#31,BOO\$GB_FILELEN	: Check for fit
		01	18	0DFB	:	BGEQ	10\$	: Continue if legal size
			04	0DFD	:	RET		:
50	00000000'EF	9A	0DFE	1721	:	MOVZBL	BOO\$GB_FILELEN,R0	: Get count
		86 50	90	0E05	:	MOVB	R0,(R6)+	: Set count for string
66	00000000'FF	50	28	0E08	:	MOVCL	R0,@BOO\$GL_FILEADDR,(R6)	: Set file name
		50 01	3C	0E10	:	MOVZWL	#1,R0	: Return success indication
			04	0E13	:	RET		:
			0E14	1726	:			:

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OE14 1728      .IF      NDF,CMDSW      ; SYSBOOCMD ONLY
OE14 1729
OE14 1730      .SBTTL  BOO$MSGOUT - Output message
OE14 1731      :
OE14 1732      : Calling Sequence:
OE14 1733      : BSBW      BOO$MSGOUT
OE14 1734      : .ASCIZ  message_string
OE14 1735      :
OE14 1736      BOO$MSGOUT::
OE14 1737      CLRQ      -(SP)      ; Null read buffer
OE14 1738      PUSHL   8(SP)      ; Address of string
OE14 1739      CALLS   #3,L^BOO$READPROMPT ; Output string
OE14 1740      LOCC   #0,#64000,@(SP)+ ; Find end of string
OE14 1741      MOVL   #1,R0      ; Set success code
OE14 1742      JMP     1(R1)      ; Return to caller
OE14 1743
OE14 1744      :+
OE14 1745      : This routine is in RMSCONIO for SYSGEN, is used here to map SYSBOOT
OE14 1746      : calls to this routine into calls to BOO$READPROMPT.
OE14 1747      :
OE14 1748      : Inputs:
OE14 1749      : RIO$GW_OUTLEN - length of string to output
OE14 1750      : RIO$AB_BUFFER - buffer to output
OE14 1751      :-
OE14 1752
OE14 1753      RIO$OUTPUT_LINE::
OE14 1754
OE14 1755      MOVQ   R1,-(SP)      ; Save R1,R2
OE14 1756      MOVZWL RIO$GW_OUTLEN,R1 ; Set length
OE14 1757      MOVAB  RIO$AB_BUFFER,R2 ; Set address
OE14 1758      MOVAB  (R2)[RT],R1    ; Set address of end of string
OE14 1759      MOVL   #^X00000A0D,(R1) ; Set CR, LF, zero byte at end
OE14 1760
OE14 1761      CLRQ   -(SP)      ; Null read buffer
OE14 1762      PUSHL   R2      ; Address of string
OE14 1763      CALLS   #3,L^BOO$READPROMPT ; Output string
OE14 1764
OE14 1765      MOVQ   (SP)+,R1    ; Restore R1,R2
OE14 1766      RSB     ; Return
OE14 1767
OE14 1768      .PAGE
OE14 1769      .SBTTL  DUMMY COMMAND ROUTINES FOR COMMANDS NOT IN SYSBOOT
OE14 1770      BOO$SET_OUTPUT::
OE14 1771      BOO$USEACT::
OE14 1772      SYSSASCTOid::
OE14 1773      SYSSFILESCAN::
OE14 1774
OE14 1775      .WORD  0      ; Null entry mask
OE14 1776      MSG    <-E-Syntax error> ; SYSBOOT error message
OE14 1777      MOVL   #1,R0      ;
OE14 1778      RET     ;
OE14 1779
OE14 1780      .ENDC   ; End of SYSBOOT conditional code
OE14 1781
OE14 1782      .END     ;

```

\$\$\$AST	= 00000000			BOO\$GQ_FILDESC	00000028	RG	06
\$\$\$CNT	= 00000007			BOO\$GT_COMBUF	00000070	RG	06
\$\$\$FLG	= FFFFFFFF			BOO\$GT_COMSTR	00000138	RG	06
\$\$\$KEY	= 00000074			BOO\$GT_CURRENT	*****	X	06
\$\$\$KFG	= FFFFFFFF			BOO\$GT_DEFAULT	*****	X	06
\$\$\$MOD	= 00000001			BOO\$GT_FILENAME	00000030	RG	06
\$\$\$TMP	= 000003C2	R	04	BOO\$GT_PROMPT	*****	X	06
\$\$KEYTAB	= 00000000	R	03	BOO\$GT_SYSNAME	00000538	RG	06
\$\$T2	= 00000004			BOO\$GT_SYSPARNAME	00000548	RG	06
ADAPTER	000005B9	R	02	BOO\$INPUT_FILE	*****	X	02
ADAP_STR	000005D5	R	02	BOO\$INSTALL	*****	X	02
ADAP_STR2	000005CD	R	02	BOO\$LOAD	*****	X	02
ADPCMD	00000294	R	02	BOO\$MAKLIST	*****	X	02
ASCII	000000EC	R	02	BOO\$MSCP_ARG	*****	X	02
ASCSTR	000005CE	R	06	BOO\$MSCP_RESET	*****	X	02
AUTOCONFIG	000002A6	R	02	BOO\$NOCHECK	00000AD6	R	06
AUTOOPT	000002CC	R	02	BOO\$NOCHKPNT	*****	X	02
BLANKS	00000579	R	06	BOO\$NO_RESET	*****	X	02
BOO\$ADAPTER_NAME	*****	X	02	BOO\$OUTPUT_FILE	*****	X	02
BOO\$ADAP_LETTER	*****	X	02	BOO\$READPROMPT	*****	X	06
BOO\$A_PRMBLK	*****	X	06	BOO\$RELOAD	*****	X	02
BOO\$A_SYSPARAM	*****	X	06	BOO\$RESETLIST	*****	X	02
BOO\$CHECK	00000AE4	R	06	BOO\$RESET_ADAP	*****	X	02
BOO\$CONADP	*****	X	02	BOO\$RESET_COMMAND	*****	X	02
BOO\$CONAUNIT	*****	X	02	BOO\$RESET_IO	*****	X	02
BOO\$CONCNUM	*****	X	02	BOO\$SEARCH	00000AF2	RG	06
BOO\$CONCREG	*****	X	02	BOO\$SETASCII	00000C35	RG	06
BOO\$CONCSROFFSET	*****	X	02	BOO\$SETBLANK	00000C2E	R	06
BOO\$CONCVEC	*****	X	02	BOO\$SETDEF	00000C0A	R	06
BOO\$CONDRVNAM	*****	X	02	BOO\$SETFILNAM	*****	X	02
BOO\$CONFIGALL	*****	X	02	BOO\$SETPGFL	*****	X	02
BOO\$CONFIGONE	*****	X	02	BOO\$SETSTART	00000DDD	R	06
BOO\$CONFIGURE	*****	X	02	BOO\$SETVALUE	00000B5A	RG	06
BOO\$CONNECT	*****	X	02	BOO\$SET_OUTPUT	*****	X	02
BOO\$CONLADP	*****	X	02	BOO\$SET_TR	*****	X	02
BOO\$CONRESET	*****	X	02	BOO\$SHOALL	00000D40	R	06
BOO\$CONSOLE	*****	X	02	BOO\$SHOCONFIG	*****	X	02
BOO\$CONSYSID_HIGH	*****	X	02	BOO\$SHODEV	*****	X	02
BOO\$CONSYSID_LOW	*****	X	02	BOO\$SHODEV_ALL	*****	X	02
BOO\$CONUNITS	*****	X	02	BOO\$SHONAMES	00000A42	R	06
BOO\$CONVECOFFSET	*****	X	02	BOO\$SHOSTART	00000AAD	R	06
BOO\$CREATE	*****	X	02	BOO\$SHOVALUE	00000D16	R	06
BOO\$CRECONTIG	*****	X	02	BOO\$SHOW	00000925	R	06
BOO\$CRENCONTIG	*****	X	02	BOO\$SHOW_ADAPTER	*****	X	02
BOO\$C_COMBUFSZ	= 000000C8	G		BOO\$SHOW_UNIBUS	*****	X	02
BOO\$C_COMSTRLEN	= 00000400	G		BOOST_DYNAMIC	00000564	R	06
BOO\$DEVNAME	*****	X	02	BOOST_NODYNAMIC	00000566	R	06
BOO\$DOT	00000B4D	R	06	BOO\$USEACT	*****	X	02
BOO\$FILESIZE	*****	X	02	BOO\$USECUR	000008EA	RG	06
BOO\$FILESPEC	000008A6	RG	06	BOO\$USEFILE	*****	X	02
BOO\$GB_FILELEN	*****	X	06	BOO\$WRTACT	*****	X	02
BOO\$GETPARAM	00000703	RG	06	BOO\$WRTCUR	*****	X	02
BOO\$GIVEHELP	*****	X	02	BOO\$WRTFILE	*****	X	02
BOO\$GL_CMDOPT	00000000	RG	05	BOOCMD\$M_AUTOLOG	= 00001000		
BOO\$GL_DOT	00000024	RG	06	BOOCMD\$M_CONT	= 00000100		
BOO\$GL_FILEADDR	*****	X	06	BOOCMD\$M_DEFAULT	= 00000200		
BOO\$GL_PARINUSE	*****	X	06	BOOCMD\$M_DISHEX	= 00000800		

```

BOOCMD$M_EXCLUDE = 00000080
BOOCMD$M_LOGICAL = 00100000
BOOCMD$M_NOCHECK = 00000001
BOOCMD$M_REMOTE = 00080000
BOOCMD$M_SELECT = 00000040
BOOCMD$M_SETOUTPUT = 00008000
BOOCMD$M_TERMINAL = 00010000
BOOCMD$M_USEFILE = 00000400
BOOCMD$V_CONT = 00000008
BOOCMD$V_DEFAULT = 00000009
BOOCMD$V_DISHEX = 0000000B
BOOCMD$V_NOCHECK = 00000000
BOOCMD$V_TERMINAL = 00000010
BOOCMD$V_USEFILE = 0000000A
BUFFER_SIZE = 00000100
CMDSW = 00000001
CONAUNIT = 000006BF R 02
CONCNUMVEC = 000006A7 R R 02
CONCREG = 0000069B R R 02
CONCSROFF = 000006BB R R 02
CONCVECTOR = 000006A3 R R 02
CONNECTCMD = 00000398 R R 02
CONNECTOPT = 0000061D R R 02
CONFIGALL = 000002C2 R R 02
CONFIGCMD = 00000310 R R 02
CONFIG_LIST = 0000031E R R 02
CONFIG_OPT = 00000328 R R 02
CONOPT = 000003AC R R 02
CONSOLCMD = 000003B6 R R 02
CONSOLOPT = 000003C0 R R 02
CONSYSID_HI = 000006B3 R R 02
CONSYSID_LO = 000006AF R R 02
CONUNITS = 000006AB R R 02
CONVECOFF = 000006B7 R R 02
CR = 0000000D
CREATECMD = 00000368 R R 02
CREATE_QUAL = 0000037C R R 02
CREOPT = 0000036A R R 02
CTRLSTR = 0000057E R R 06
CTR_PARINUSE = 00000645 R R 06
CUR_BLANKS = 00000567 R R 06
DEV_OR_DRIV = 00000541 R R 02
DISABLCMD = 000000A2 R R 02
ENABLCMD = 000000AC R R 02
EXESA_SYSPARAM = ***** X 06
EXESC_SYSPARSZ = ***** X 06
EXESGC_DYNAMIC_FLAGS = ***** X 06
EXESGL_TODR = ***** X 06
EXESGQ_TODCBASE = ***** X 06
EXESGT_STARTUP = ***** X 06
EXESV_WRITESYSPARAMS = ***** X 06
EXIT = 000008A2 R R 06
FF = 0000000C
FILESPEC = 00000266 R R 02
GEN$SHARE = ***** X 02
GEN$SHR_CFCNT = ***** X 02
GEN$SHR_CEFMAX = ***** X 02

```

```

GEN$SHR_GBLCNT ***** X 02
GEN$SHR_GBLMAX ***** X 02
GEN$SHR_INIT ***** X 02
GEN$SHR_MBXCNT ***** X 02
GEN$SHR_MBXMAX ***** X 02
GEN$SHR_MEMNAME ***** X 02
GEN$SHR_POOLC ***** X 02
GEN$SHR_POOLS ***** X 02
GEN$SHR_PRQCNT ***** X 02
GEN$SHR_RESET ***** X 02
GEN$SHR_START ***** X 02
GEN$SHR_UNIT ***** X 02
GETDATA = 00000A22 R R 06
HEXNUM = 0000027E R R 02
HEXQUAL = 00000210 R R 02
HEXQUAL2 = 00000206 R R 02
HEXSTR = 000005A6 R R 06
INPUT = 0000033C R R 02
INS1 = 000003EC R R 02
INSTALCMD = 000003E2 R R 02
INS_EXIT = 0000041E R R 02
INS_PAGE = 00000416 R R 02
KEYTBL = 00000000 RG 03
LF = 0000000A
LIB$SIGNAL ***** X 06
LIB$TPARSE ***** X 06
LIB$SYNTAXERR ***** X 06
LOADT = 00000691 R R 02
LOADARGCNT = 00000507 R R 02
LOADCMD = 00000422 R R 02
LOADP1 = 0000050B R R 02
MSCP = 0000043C R R 02
MSCPCMD = 00000436 R R 02
MSCPOPT = 00000446 R R 02
MSCP_BUFFER = 000004CF R R 02
MSCP_FRACTION = 000004FF R R 02
MSCP_HOSTS = 000004DF R R 02
MSCP_PACKET = 000004D7 R R 02
MSCP_PRIORITY = 000004EF R R 02
MSCP_SMALL = 000004F7 R R 02
MSCP_TIME_OUT = 000004E7 R R 02
NCTRESTR = 0000060E R R 06
NUMBER = 0000026E R R 02
OUTPUT = 0000034C R R 02
PARMBLK = 00000000 R R 06
PARSE = 000007BA R R 06
POOLCNT = 0000074D R R 02
POOLSIZ = 00000755 R 02
PRMSB_POS = 00000015
PRMSB_SIZE = 00000014
PRMSC_LENGTH = 00000032
PRMSL_ADDR = 00000000
PRMSL_DEFAULT = 00000004
PRMSL_FLAGS = 00000010
PRMSL_MAX = 0000000C
PRMSL_MIN = 00000008
PRMSM_ACP = 00000008

```

PRMSM_ALL	=	80000000		
PRMSM_CLUSTER	=	00008000		
PRMSM_DYNAMIC	=	00000001		
PRMSM_JBC	=	00000010		
PRMSM_LGI	=	00020000		
PRMSM_MAJOR	=	00000400		
PRMSM_NEG	=	00001000		
PRMSM_PQL	=	00000800		
PRMSM_RMS	=	00000020		
PRMSM_SCS	=	00004000		
PRMSM_SPECIAL	=	00000080		
PRMSM_SYS	=	00000040		
PRMSM_SYSGEN	=	00000004		
PRMSM_TTY	=	00002000		
PRMST_NAME	=	00000016		
PRMST_UNIT	=	00000026		
PRMSV_ALL	=	0000001F		
PRMSV_ASCII	=	00000010		
PRMSV_DYNAMIC	=	00000000		
PRMSV_SPECIAL	=	00000007		
PRCNT		00000759	R	02
READCMD		00000705	R	06
READLINE		00000713	R	06
RELOADCMD		0000050F	R	02
RESET		0000035C	R	02
RIOSAB_BUFFER		*****	X	06
RIOSAB_OUTBUF		*****	X	06
RIOSGW_OUTLEN		*****	X	06
RIOSOUTPUT_LINE		*****	X	06
SAVE_TODCBASE		00000004	R	05
SAVE_TODR		0000000C	R	05
SCRSErase PAGE		*****	X	06
SCR\$SET_SCROLL		*****	X	06
SCTRLSTR		00000621	R	06
SDVHDR		00000665	R	06
SDVHDRLEN	=	0000009E		
SELECTLIST		000002FA	R	02
SEPARATOR		00000282	R	02
SETCMD		00000086	R	02
SETOUTPUT		0000010C	R	02
SETSPEC		000000E0	R	02
SETSTARTUP		00000120	R	02
SHARECMD		00000517	R	02
SHARECMDOPT		0000051D	R	02
SHAREOPT		000006C7	R	02
SHOCMD		00000134	R	02
SHOSWITCH		00000136	R	02
SHOWCON		00000565	R	02
SHOWCONOPT		0000057D	R	02
SHOWCON_LOOP		0000056F	R	02
SHOWONE		000001FE	R	02
SHOW_UNIBUS		00000597	R	02
SHRCEFCNT		0000073D	R	02
SHRCEFMAX		00000749	R	02
SHRGBLCNT		00000735	R	02
SHRGBLMAX		00000741	R	02
SHRMBXCNT		00000739	R	02

SHRMBXMAX		00000745	R	02
SHROPT		00000537	R	02
SHRSTART		00000761	R	02
SS\$ NORMAL	=	00000001		
STATE1		00000000	RG	02
SYMBOL		000000F6	R	02
SYSSFAO		*****	X	06
SYSG\$LOAD TT STR		*****	X	02
SYSG\$_NOPARAM	=	007C80F2		
SYSG\$_NOTASCII	=	007C8112		
SYSG\$_SETMAX	=	007C9028		
SYSG\$_SETMIN	=	007C9030		
SYSG\$_STRTOOLNG	=	007CE A		
SYSG\$_SYNTAX	=	007C809A		
TERMINALCMD		000005E5	R	02
TPASB_CHAR	=	00000018		
TPASK_COUNTO	=	00000008		
TPASK_LENGTHO	=	00000024		
TPASL_COUNT	=	00000000		
TPASL_NUMBER	=	0000001C		
TPASL_OPTIONS	=	00000004		
TPASL_PARAM	=	00000020		
TPASL_STRINGCNT	=	00000008		
TPASL_STRINGPTR	=	0000000C		
TPASL_TOKENCNT	=	00000010		
TPASL_TOKENPTR	=	00000014		
TPASM_ABBREV	=	00000002		
TPASM_BLANKS	=	00000001		
TPASV_BLANKS	=	00000000		
TPAS_ALPHA	=	000001EE		
TPAS_ANY	=	000001ED		
TPAS_BLANK	=	000001F2		
TPAS_DECIMAL	=	000001F3		
TPAS_DIGIT	=	000001EF		
TPAS_EOS	=	000001F7		
TPAS_EXIT	=	FFFFFFFF		
TPAS_FAIL	=	FFFFFFFE		
TPAS_FILESPEC	=	000001EA		
TPAS_HEX	=	000001F5		
TPAS_IDENT	=	000001EC		
TPAS_KEYWORD	=	00000100		
TPAS_LAMBDA	=	000001F6		
TPAS_MAXKEY	=	000000DC		
TPAS_OCTAL	=	000001F4		
TPAS_STRING	=	000001F0		
TPAS_SUBXPR	=	000001F8		
TPAS_SYMBOL	=	000001F1		
TPAS_UIC	=	000001EB		
USEACT		0000024E	R	02
USECMD		00000222	R	02
USECUR		00000244	R	02
USEDEF		00000258	R	02
VALUE		0000028A	R	02
WRTACT		00000613	R	02
WRTCMD		000005F1	R	02
WRTCUR		00000609	R	02

-----  
! Psect synopsis !  
-----

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 ( 0.)	01 ( 1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
_LIBSSTATES	00000765 ( 1893.)	02 ( 2.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC BYTE
_LIBSKEYOS	000000EA ( 234.)	03 ( 3.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC WORD
_LIBSKEYIS	000003C9 ( 969.)	04 ( 4.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC WORD
NONPAGED DATA	00000010 ( 16.)	05 ( 5.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC QUAD
SYSBOOCMD	00000E14 ( 3604.)	06 ( 6.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

-----  
! Performance indicators !  
-----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.10	00:00:01.19
Command processing	111	00:00:00.81	00:00:05.59
Pass 1	1193	00:01:28.43	00:02:43.16
Symbol table sort	0	00:00:01.99	00:00:03.50
Pass 2	514	00:00:19.10	00:00:30.89
Symbol table output	44	00:00:00.30	00:00:00.77
Psect synopsis output	6	00:00:00.03	00:00:00.11
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	1899	00:01:50.76	00:03:25.21

The working set limit was 2000 pages.  
475517 bytes (929 pages) of virtual memory were used to buffer the intermediate code.  
There were 70 pages of symbol table space allocated to hold 1240 non-local and 84 local symbols.  
1783 source lines were read in Pass 1, producing 70 object records in Pass 2.  
40 pages of virtual memory were used to define 33 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
_\$255\$DUA28:[BOOTS.OBJ]BOOTS.MLB;1	1
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	5
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	13
TOTALS (all libraries)	19

1365 GETS were required to define 19 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SYSGENCMD/OBJ=OBJ\$:SYSGENCMD MSRC\$:CMD\$SW/UPDATE=(ENH\$:CMD\$SW)+MSRC\$:SYSBOOCMD/UPDATE=(ENH\$:SYSBOOCMD)+EXECMLS/LIB+LIB\$

