

DDDDDDDDDDDD		CCCCCCCCCCCC	LLL
DDDDDDDDDDDD		CCCCCCCCCCCC	LLL
DDDDDDDDDDDD		CCCCCCCCCCCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDD	DDD	CCC	LLL
DDDDDDDDDDDD		CCCCCCCCCCCC	LLLLLLLLLLLLLLLL
DDDDDDDDDDDD		CCCCCCCCCCCC	LLLLLLLLLLLLLLLL
DDDDDDDDDDDD		CCCCCCCCCCCC	LLLLLLLLLLLLLLLL

SET
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(3)	130	SET USER IDENTIFICATION CODE
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(9)	667	MODIFY INPUT STREAM CHARACTERISTICS
(10)	704	SET ON MODE
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(12)	792	SET PROMPT

```
0000 1 .TITLE SET - SET PARAMETER DCLS COMMAND EXECUTION
0000 2 .IDENT 'V04-000'
0000 3
0000 4
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0000 6 :*
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```
0000 28 : SET PARAMETER DCLS COMMAND EXECUTION
0000 29 :
0000 30 :
0000 31 : SET DIRECTORY
0000 32 : SET PROTECTION
0000 33 : SET USER IDENTIFICATION CODE
0000 34 : SET VERIFY MODE
0000 35 : SET ON
0000 36 : SET CONTROL
0000 37 : SET PROMPT
0000 38 :
0000 39 : D. N. CUTLER 17-APR-77
0000 40 :
0000 41 : MODIFIED BY:
0000 42 :
0000 43 : V03-015 HWS0095 Harold Schultz 25-Jul-1984
0000 44 : Add support for execute-only command procedures.
0000 45 :
0000 46 : V03-014 HWS0011 Harold Schultz 13-Feb-1984
0000 47 : Use PRC_V_CARRCNTL to indicate presence/absence of
0000 48 : CR/LF in prompt string.
0000 49 : Fix broken branch.
0000 50 :
0000 51 : V03-013 PCG0012 Peter George 12-Oct-1983
0000 52 : Fix bug in SET NOON, ON severity, SET ON sequence.
0000 53 :
0000 54 : V03-012 PCG0011 Peter George 18-Aug-1983
0000 55 : Change the way that default protection is changed.
0000 56 :
0000 57 : V03-011 KBT0577 Keith B. Thompson 8-Aug-1983
0000 58 : Fix a bug in kbt0572
0000 59 :
0000 60 : V03-010 KBT0572 Keith B. Thompson 1-Aug-1983
0000 61 : Use STRNLNM in SET DEFAULT
0000 62 :
0000 63 : V03-009 PCG0010 Peter George 07-Jul-1983
0000 64 : Update SET UIC.
0000 65 :
0000 66 : V03-008 PCG0009 Peter George 31-May-1983
0000 67 : Reference $RMEDEF.
0000 68 :
0000 69 : V03-007 PCG0008 Peter George 27-May-1983
0000 70 : Add image verification.
0000 71 :
0000 72 : V03-006 PCG0007 Peter George 30-Apr-1983
0000 73 : Change reference to CRLF.
0000 74 :
0000 75 : V03-005 PCG0006 Peter George 17-Feb-1983
0000 76 : Remove reference to $ _DEFQUALSET.
0000 77 : Convert to new table structure.
0000 78 :
0000 79 : V03-004 PCG0005 Peter George 19-Nov-1982
0000 80 : Let SET PROMPT with no argument restore the default
0000 81 : prompt.
0000 82 :
0000 83 : V03-003 PCG0004 Peter George 28-Oct-1982
0000 84 : Add SET PROMPT.
```

```

0000 85 :
0000 86 :
0000 87 : V03-002 PCG0003 Peter George 22-Oct-1982
0000 88 : Fix keyword parsing bug in SET PROTECTION.
0000 89 :
0000 90 : V03-001 PCG0002 Peter George 01-Jul-1982
0000 91 : Modify SET CONTROL and SET PROTECTION to interact with
0000 92 : DCL keyword parsing.
0000 93 : ---
0000 94 :
0000 95 :
0000 96 : MACRO LIBRARY CALLS
0000 97 :
0000 98 :
0000 99 : $$CLITABDEF ;TABLE STRUCTURE DEFINITIONS
0000 100 WRKDEF ;DEFINE COMMAND WORK AREA
0000 101 PRCDEF ;DEFINE PROCESS WORK AREA
0000 102 PTRDEF ;DEFINE RESULT PARSE DESCRIPTOR FORMAT
0000 103 IDFDEF ;DEFINE INDIRECT FILE DATA STRUCTURE
0000 104 $LNMDEF
0000 105 $LOGDEF ;LOGICAL NAME DEFINITIONS
0000 106 $RMEDEF ;DEFINE RME CONSTANTS
0000 107 $PCBDEF ;DEFINE PCB OFFSETS
0000 108 $PRVDEF ;PRIVILEGE BIT DEFINITIONS
0000 109 $CLIMSGDEF ;DEFINE CLI RELATED ERRORS
0000 110
0000 111 :
0000 112 : LOCAL DATA
0000 113 :
0000 114 :
00000000 115 .PSECT DCL$ZCODE, BYTE, RD, NOWRT
52 57 45 44 0000 116 ACCESS: .ASCII /DEWR/ ;ACCESS PROTECTION CODES
53 4F 47 57 0004 117 CLASS: .ASCII /WGOS/ ;PROTECTION CLASSES
56 45 44 5F 45 4C 49 46 24 4D 4E 4C 0008 120
0000000C 0014 121 TABNAM: .ASCII /LNMSFILE_DEV/ ; Logical name table to search
0014 122 TABNAMSZ=-TABNAM ; for device names
0014 123
0014 124 DCLST_DSKNAM:: ; String for default device
4B 53 49 44 24 53 59 53 00' 0014 125 .ASCIC /SYSSDISK/
08 0014
001D 126
001D 127 CONTROL_CHARS: ;SET CONTROL CHARACTERS
20 20 20 20 20 54 20 20 20 20 59 20 001D 128 .ASCII / Y T
20 20 20 20 20 20 20 20 20 20 20 20 0029
20 20 0035

```



```
008F 187 :  
008F 188 : SET USER IDENTIFICATION CODE  
008F 189 :  
50 00000000'9F 0000 008F 190 SETUIC: .WORD 0 ;ENTRY MASK  
00BC C0 6C D0 0091 191 MOVL @#SCH$GL CURPCB,R0 ;GET CURRENT PROCESS PCB ADDRESS  
D0 0098 192 MOVL (AP),PCB$UIC(R0) ;SET USER IDENTIFICATION CODE  
04 009D 193 STATUS NORMAL ;  
04 00A4 194 RET ;
```



```

00A5 196 .SBTTL CONVERT STRING TO LONGWORD UIC
00A5 197 :+
00A5 198 : DCL$CVTUIC - CONVERT STRING TO LONGWORD UIC.
00A5 199 :
00A5 200 : INPUTS:
00A5 201 :
00A5 202 : R4/R5 = DESCRIPTOR OF UIC STRING
00A5 203 :
00A5 204 : OUTPUTS:
00A5 205 :
00A5 206 : R0 = STATUS
00A5 207 : R1 = LONGWORD UIC
00A5 208 : R2-R5 ARE TRASHED
00A5 209 :
00A5 210 DCL$CVTUIC::
FF A5 54 D7 00A5 211 DECL R4 :SKIP LEADING BRACKET
55 D6 00A7 212 INCL R5 :
7E 54 7D 00A9 213 MOVQ R4,-(SP) :SAVE DIRECTORY DESCRIPTOR
SB 8F 91 00AC 214 CLRL -(SP) :ALLOCATE LONGWORD FOR UIC
FF A5 06 13 00AE 215 CMPB #^A/[,-1(R5) :START WITH A BRACKET?
3C 91 00B3 216 BEQL 10$ :IF EQL YES
2E 12 00B5 217 CMPB #^A/</,-1(R5) :START WITH A BRACKET?
53 5E D0 00B9 218 BNEQ 90$ :IF NEQ NO
0082 30 00BB 219 10$: MOVL SP,R3 :SAVE ADDRESS OF UIC LONGWORD
85 2C 91 00BE 220 BSBW CVTUIC :CONVERT GROUP NUMBER
2E 12 00C1 221 CMPB #^A/./,(R5)+ :END WITH A COMMA?
02 A3 50 B0 00C4 222 BNEQ 50$ :IF NEQ NO
0076 30 00CA 223 MOVW R0,2(R3) :SAVE GROUP NUMBER
65 5D 8F 91 00CD 224 BSBW CVTUIC :CONVERT MEMBER NUMBER
05 13 00D1 225 CMPB #^A/] /,(R5) :END WITH A BRACKET?
65 3E 91 00D3 226 BEQL 20$ :IF EQL YES
1C 12 00D6 227 CMPB #^A/>/,(R5) :END WITH A BRACKET?
63 50 B0 00DB 228 BNEQ 50$ :IF NEQ NO
5E 08 8ED0 00DB 229 20$: MOVW R0,(R3) :SAVE MEMBER NUMBER
CO 00DE 230 30$: POPL R1 :GET UIC NUMBER
05 00E1 231 ADDL #8,SP :POP UIC DESCRIPTOR
00E8 232 STATUS NORMAL :RETURN SUCCESS
00E9 233 RSB :
00E9 234 :
00E9 235 :
00E9 236 : SIGNAL INVALID UIC SYNTAX
00E9 237 :
5E 0C CO 00E9 238 90$: STATUS INUVIC :SET INVALID UIC SYNTAX
05 00F0 239 95$: ADDL #12,SP :RESTORE THE STACK
00F3 240 :
00F4 241 :
00F4 242 :
00F4 243 : TAKE UIC APART AND TRY TO CONVERT IT USING $ASCTOID.
00F4 244 :
65 54 04 A3 7D 00F4 245 50$: MOVQ 4(R3),R4 :GET UIC DESCRIPTOR
54 54 2C 3A 00F8 246 LOCC #^A/./,R4,(R5) :LOOK FOR A COMMA
20 13 00FC 247 BEQL 60$ :BRANCH IF NONE
04 A3 50 C2 00FE 248 SUBL R0,4(R3) :GET LENGTH OF GROUP NAME
50 D7 0102 249 DECL R0 :CREATE DESCRIPTOR OF REST OF UIC
51 D6 0104 250 INCL R1 :
54 50 7D 0106 251 MOVQ R0,R4 :SAVE DESCRIPTOR OF REST OF UIC
0109 252 $ASCTOID_S NAME=4(R3),- :GET THE GROUP ID

```

```

      0109 253
04 A3 D6 50 E9 0117 254          BLBC      ID=(R3)
      7D 011A 255          MOVQ     R0,95$
      011E 256          :;BRANCH IF ERROR
65 54 5D 8F 3A 011E 257 60$: LOCC     #^A/]/,R4,(R5) :;LOOK FOR A CLOSING BRACKET
      12 0123 258          BNEQ     65$ :;BRANCH IF FOUND
65 54 3E 3A 0125 259          LOCC     #^A/>/,R4,(R5) :;LOOK FOR A CLOSING BRACKET
      BE 13 0129 260          BEQL     90$ :;BRANCH IF NONE
04 A3 50 C2 012B 261 65$:  SUBL     R0,4(R3) :;GET LENGTH OF MEMBER NAME
      012F 262          $ASCTOID S,NAME=4(R3),- :;GET THE UIC
      012F 263          ID=(R3)
      B0 50 E9 013D 264          BLBC     R0,95$ :;BRANCH IF ERROR
      FF98 31 0140 265          BRW     30$ :;SET THE UIC
      0143 266
      0143 267
      0143 268 :; CONVERT ASCII OCTAL UIC COMPONENT TO NUMERIC WORD
      0143 269
      0143 270 CVTUIC: CLRQ     R0 :;CLEAR ACCUMULATION AND CHARACTER
51 65 50 7C 0143 271 10$: SUBB3   #^A/0/, (R5),R1 :;GET NEXT CHARACTER
      30 83 0145 272          BLSS     20$ :;IF LSS NOT DIGIT
      0D 19 0149 273          CMPL     #8,R1 :;OCTAL DIGIT?
      51 08 D1 014B 274          BLEQ     20$ :;IF LEQ NO
      08 15 014E 275          MOVAQ   (R1)[R0],R0 :;ACCUMULATE RESULT
50 6140 7E 0150 276          INCL     R5 :;POINT TO NEXT CHARACTER
      55 D6 0154 277          BRB     10$
      ED 11 0156 278 20$:  RSB
      05 0158 279
      0159 279

```

```

0159 281      .SBTTL SET DEFAULT DEVICE AND/OR DIRECTORY
0159 282      :+
0159 283      : DCL$SETDEFAULT - SET DEFAULT DEVICE AND/OR DIRECTORY
0159 284      :
0159 285      : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET DEFAULT
0159 286      : DCLS COMMAND.
0159 287      :
0159 288      : INPUTS:
0159 289      :
0159 290      :     R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0159 291      :     R9 = ADDRESS OF SCRATCH STACK.
0159 292      :     R10 = BASE ADDRESS OF COMMAND WORK AREA.
0159 293      :     R11 = BASE ADDRESS OF PROCESS WORK AREA.
0159 294      :
0159 295      : OUTPUTS:
0159 296      :
0159 297      :     R4,R5 = STRING DESCRIPTOR FOR DIRECTORY PORTION
0159 298      :     SYS$DISK = DEFAULT DISK
0159 299      :     THE CURRENT DEFAULT DIRECTORY IS ESTABLISHED.
0159 300      :-
0159 301
0000000A 0159 302 MAX_TRANS_LVL$ = 10                ; maximum translation levels allowed
0159 303
0159 304 :
0159 305 : LNM service buffer offsets from R8
0159 306 :
0159 307
00000000 0159 308 Q_LOGNAM          = 0                ; Logical name descriptor
00000008 0159 309 Q_TABLE            = 8                ; Table name descriptor
00000010 0159 310 L_ATTR              = 16               ; Attributes longword
00000014 0159 311 L_MAX_INDEX         = 20               ; Max Index
00000018 0159 312 W_STRING_LEN        = 24               ; String length
0000001C 0159 313 T_STRING_BUF       = 28               ; String buffer
0000011C 0159 314 S_XLT_BUF         = 284            ; Output buffer size
0159 315
0159 316
0159 317 DCL$SETDEFAULT::
0159 318 ADDL2          #PTR C LENGTH,-          ; SET DEFAULT
0159 319             WRK C RSLNXT(R10)         ; skip option descriptor
0159 320 BSBW          DCL$GETDVAL             ; <R1,R2> = token
0160 321
0160 322 :
0160 323 : Translate the overall string to get 1 level of translation
0160 324 :
0160 325
0160 326             MOVL      #MAX_TRANS_LVL$,AP  ; set max translation counter
59 0000011C 8F C2 0163 327             SUBL2     #S_XLT_BUF,R9      ; allocate buffer
016A 328             MOVL      R9,R8          ; save addr of buffer
016D 329
016D 330 :
016D 331 : Create item list for $TRNLNM
016D 332 :
016D 333
016D 334             CLRQ      -(R9)              ; clear last longword and length addr
016F 335             MOVAL     L_ATTR(R8),-(R9)  ; set up attributes item
00030004 8F DO 0173 336             MOVL      #ZLNMS_ATTRIBUTES@16>+4,-;
0179 337             -(R9)

```

```

79 18 A8 3E 017A 338      MOVAW  W_STRING_LEN(R8),-(R9)  ; string size goes here
79 1C A8 9E 017E 339      MOVAB  T_STRING_BUF(R8),-(R9)    ; string buffer
000200FF 8F D0 0182 340      MOVL   #ZLNMS_STRING@16>+255,-
79          79 0188 341      -(R9)
79          79 D4 0189 342      CLRL   -(R9)                    ; no output size
79 14 A8 DE 018B 343      MOVAL  L_MAX_INDEX(R8),-(R9)    ; max index here
00070004 8F D0 018F 344      MOVL   #ZLNMS_MAX_INDEX@16>+4,-
79          79 0195 345      -(R9)
OC A8 08 A8 OC 9A 0196 346      MOVZBL #TABNAMSZ,Q_TABLE(R8)    ; create descriptor of logical name
OC A8 FE6A CF 9E 019A 347      MOVAB  TABNAM,Q_TABLE+4(R8)     ; table to look in
68 51 7D 01A0 348      MOVQ   R1,Q_LOGNAM(R8)         ; set up logical name
01A3 349      STRNLNM S -                ; translate the logical name
01A3 350      TABNAM=Q_TABLE(R8),-
01A3 351      LOGNAM=Q_LOGNAM(R8),-
01A3 352      ITMLST=(R9)
0000'8F 50 B1 01B5 353      CMPW   R0,#SS$_NORMAL          ; success?
0000'8F 08 13 01BA 354      BEQL   10$                    ; yes
0000'8F 50 B1 01BC 355      CMPW   R0,#SS$_NOLOGNAM        ; no translation?
18 13 01C1 356      BEQL   15$                    ; yes
05 01C3 357      RSB                    ; error
01C4 358
01C4 359
01C4 360      ; Check if there was a really a translation, was it a search list
01C4 361      ; and if it was a concealed device.
01C4 362
01C4 363
14 A8 D5 01C4 364 10$: TSTL   L_MAX_INDEX(R8)          ; was there a real non-search list name
17 14 01C7 365      BGTR   20$                    ; branch if >0, search list
10 19 01C9 366      BLSS   15$                    ; branch if <0, null translation
08 E0 01CB 367      BBS    #LNMSV CONCEALED,-     ; ignore if translation concealed
10 10 A8 01CD 368      L_ATTR(R8),20$
18 A8 3C 01D0 369      MOVZWL W_STRING_LEN(R8),-     ; set result string length
68 01D3 370      Q_LOGNAM(R8)
18 A8 28 01D4 371      MOVCL  W_STRING_LEN(R8),-     ; copy translation into the buffer
1C A8 01D7 372      T_STRING_BUF(R8),-         ; where the original token use to be
04 B8 01D9 373      @Q_LOGNAM+4(R8)
54 68 7D 01DB 374 15$: MOVQ   Q_LOGNAM(R8),R4          ; setup string descriptor
10 11 01DE 375      BRB    40$                    ; parse string
01E0 376
01E0 377
01E0 378      ; We could not use the translation because of concealed name or search list
01E0 379      ; so use the original input string
01E0 380
01E0 381
54 68 7D 01E0 382 20$: MOVQ   Q_LOGNAM(R8),R4          ; get source descriptor
01E3 383
01E3 384
01E3 385      ; Make sure the last character is a ':' so it acts like a device name
01E3 386
01E3 387
3A FF A544 91 01E3 388      CMPB   -1(R5)[R4],#^A:'      ; is last char a colon?
06 13 01E8 389      BEQL   40$                    ; continue if so
6544 3A 90 01EA 390      MOVAB  #^A:',(R5)[R4]        ; append a colon if not
54 D6 01EE 391      INCL   R4                    ; count it as well
01F0 392
01F0 393
01F0 394      ; Locate the device portion of the string, include any node names found as well

```

```

01F0 395 :
01F0 396 :
65 54 6544 94 01F0 397 40$: CLR B (R5)[R4] ; mark end of string
3A 3A 01F3 398 LOCC #^A/;/,R4,(R5) ; look for device name delimiter
3D 13 01F7 399 BEQL 70$ ; branch if no device here
61 81 91 01F9 400 CMPB (R1)+,(R1) ; is this a node name?
14 12 01FC 401 BNEQ 60$ ; branch if only device
53 01 A1 9E 01FE 402 MOVAB 1(R1),R3 ; set address of end of node string
50 02 C2 0202 403 SUBL #2,R0 ; and length of remainder
63 50 3A 3A 0205 404 LOCC #^A/;/,R0,(R3) ; see if device name is here
04 13 0209 405 BEQL 50$ ; branch if none, just use node
53 01 A1 9E 020B 406 MOVAB 1(R1),R3 ; set end of device name
51 53 D0 020F 407 50$: KOVL R3,R1 ; set end of equivalence name for disk
52 55 D0 0212 408 60$: MOVL R5,R2 ; save start of device string
55 51 D0 0215 409 MOVL R1,R5 ; set start of directory string
51 52 C2 0218 410 SUBL R2,R1 ; find length of device name
54 51 C2 021B 411 SUBL R1,R4 ; adjust directory string length
021E 412 :
021E 413 :
021E 414 : At this point: <R1,R2> = device (+node)
021E 415 : <R4,R5> = rest of string
021E 416 :
021E 417 : Check if the device portion = 'SYS$DISK', if so ignore it
021E 418 :
021E 419 :
57 FDF2 CF 9E 021E 420 MOVAB DCL$T_DSKNAM,R7 ; address of device name counted string
56 87 9A 0223 421 MOVZBL (R7)+,R6 ; get length and address of first byte
50 51 56 C3 0226 422 SUBL3 R6,R1,R0 ; find difference in name string sizes
50 50 D7 022A 423 DECL R0 ; check if 1 byte difference(the colon!)
0D 12 022C 424 BNEQ 80$ ; br if no-can't be the special name
67 62 06 BB 022E 425 PUSHR #^M<R1,R2> ; save registers to be used
06 29 0230 426 CMPC3 R6,(R2),(R7) ; check for reserved system name
03 BA 0234 427 POPR #^M<R1,R2> ; restore values
007E 31 0236 428 70$: BNEQ 80$ ; branch if no device name assignment
0238 429 BRW 130$ ; needed
023B 430 :
023B 431 :
023B 432 : If the device portion has a translation and it contains a
023B 433 : directory specification, then repeat using the translation
023B 434 : if a directory was specified in addition, then report an error
023B 435 : that 2 directory specifications appeared in the same string
023B 436 :
023B 437 :
68 51 D7 023B 438 80$: DECL R1 ; do not send colon into trnlm
51 7D 023D 439 MOVQ R1,Q_LOGNAM(R8) ; set up logical name
0240 440 STRNLNM_S - ; translate the logical name
0240 441 TABNAM=Q_TABLE(R8) -
0240 442 LOGNAM=Q_LOGNAM(R8),-
0240 443 ITMLST=(R9)
0000'8F 50 B1 0252 444 CMPW R0,#SS$_NORMAL ; success?
08 13 0257 445 BEQL 90$ ; yes
0000'8F 50 B1 0259 446 CMPW R0,#SS$_NOLOGNAM ; no translation?
3C 13 025E 447 BEQL 120$ ; yes
05 05 0260 448 RSB ; error
0261 449 :
14 A8 D5 0261 450 90$: TSTL L_MAX_INDEX(R8) ; branch if no translation or
36 12 0264 451 BNEQ 120$ ; search list

```

```

08 E0 0266 452 BBS #LNMSV CONCEALED,- ; or concealed
31 10 A8 0268 453 L_ATTR(R8),120$
18 AB 5B 8F 3A 0268 454 LOCC #A/[/,W_STRING_LEN(R8),-; is there a directory in there?
1C A8 0270 455 T_STRING_BUF(R8)
08 12 0272 456 BNEQ 95$ ; ignore unless device/dir translation
18 AB 3C 3A 0274 457 LOCC #A/</,W_STRING_LEN(R8),-; is there a directory in there?
1C A8 0278 458 T_STRING_BUF(R8)
20 13 027A 459 BEQL 120$ ; ignore unless device/dir translation
54 D5 027C 460 95$: TSTL R4 ; any directory specified explicitly?
11 12 027E 461 BNEQ 100$ ; if so, then error in specification
0280 462
18 AB 3C 0280 463 MOVZWL W_STRING_LEN(R8),- ; set result string length
68 0283 464 Q_LOGNAM(R8)
18 AB 28 0284 465 MOVC3 W_STRING_LEN(R8),- ; copy translation into the buffer
1C A8 0287 466 T_STRING_BUF(R8),- ; where the original token use to be
04 B8 0289 467 @Q_LOGNAM+4(R8)
54 68 7D 028B 468 MOVQ Q_LOGNAM(R8),R4 ; setup string descriptor
08 5C F5 028E 469 SOBGTR AP,110$ ; limit translation levels
0291 470 100$: STATUS DIRECT ; error in directory specification
FF54 05 0298 471 RSB
31 0299 472 110$: BRW 40$ ; continue translation device portion
029C 473
51 68 7D 029C 474 120$: MOVQ Q_LOGNAM(R8),R1 ; restore device portion descriptor
51 06 D6 029F 475 INCL RT ; restore colon to end of string
02A1 476
02A1 477 ;
02A1 478 ; Create/update the logical name sys$disk which holds the current
02A1 479 ; default disk device.
02A1 480 ;
02A1 481 ;
00C6 8F BB 02A1 482 PUSHR #M<R1,R2,R6,R7> ; descriptors for logical and equivalence na
00 DD 02A5 483 PUSHL #0 ; access mode is defaulted
04 AE 7F 02A7 484 PUSHAQ 4(SP) ; address of equivalence name desc
10 AE 7F 02AA 485 PUSHAQ 16(SP) ; descriptor of name to relate with
02 DD 02AD 486 PUSHL #LOG$C PROCESS ; table number
00000000'9F 08 FB 02AF 487 CALLS #8,@#SYSS$CRELOG ; clear descriptor on return
1C 50 E9 02B6 488 BLBC R0,150$ ; branch if error creating name
02B9 489 ;
02B9 490 ;
02B9 491 ; Change the default directory specification (if any);
02B9 492 ;
02B9 493 ;
54 D5 02B9 494 130$: TSTL R4 ; any directory field
11 13 02BB 495 BEQL 140$ ; branch if no
30 BB 02BD 496 PUSHR #M<R4,R5> ; descriptor for directory name
7E 7C 02BF 497 CLRQ -(SP) ; zeros as arguments 2 & 3
08 AE 9F 02C1 498 PUSHAB 8(SP) ; address of directory string
00000000'GF 05 FB 02C4 499 CALLS #5,G^SYSS$SETDDIR ; set the default directory
07 50 E9 02CB 500 BLBC R0,150$ ; branch if error from rms
02CE 501 140$: STATUS NORMAL ; assume all is aok
05 02D5 502 150$: RSB
02D6 503

```

```

02D6 505 .SBTTL SET PROTECTION
02D6 506
02D6 507 :+ DCL$SETPROT - SET PROTECTION
02D6 508
02D6 509 THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET PROTECTION
02D6 510 DCLS COMMAND.
02D6 511
02D6 512 : INPUTS:
02D6 513
02D6 514 R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
02D6 515 R9 = ADDRESS OF SCRATCH STACK.
02D6 516 R10 = BASE ADDRESS OF COMMAND WORK AREA.
02D6 517 R11 = BASE ADDRESS OF PROCESS WORK AREA.
02D6 518
02D6 519 : OUTPUTS:
02D6 520
02D6 521 THE CURRENT DEFAULT PROTECTION IS ESTABLISHED.
02D6 522
02D6 523
02D6 524 DCL$SETPROT::
02D6 525 CLRL -(SP) ;SET PROTECTION
02D6 526 MOVL SP, -(SP) ;WHERE TO RETURN PROTECTION
02D6 527 CLRL -(SP) ;NOTE WHERE PROTECTION IS TO BE PUT
02D6 528 CALLS #2, @SYS$SETDFPROT ;DON'T WANT TO SET PROTECTION
02D6 529 MOVL (SP)+, R9 ;GET DEFAULT PROTECTION
02D6 530 ADDL #2*PTR_C_LENGTH, - ;COPY PROTECTION TO USEFUL REG
02D6 531 WRK_L RSCNXT(R10) ;SKIP PAST OPTION DESCRIPTOR
02D6 532 10$: BSBW DCL$GETDVAL ;AND /DEFAULT QUALIFIER
02D6 533 CMPB #PTR_K_PARAMETR, R5 ;GET NEXT DESCRIPTOR VALUES
02D6 534 BNEQ 40$ ;PARAMETER VALUE?
02D6 535 LOCC (R2), #4, CLASS ;IF NEQ NO
02D6 536 BEQL 60$ ;LOCATE PROTECTION CLASS
02D6 537 DECL R0 ;IF EQL INVALID CLASS
02D6 538 MULL3 #4, R0, R8 ;CALCULATE STARTING BIT NUMBER
02D6 539 INSV #*XF, R8, #4, R9
02D6 540 CMPB #PTR_K_COLON, R4 ;START WITH NO ACCESS
02D6 541 BNEQ 10$ ;PROTECTION VALUE SPECIFIED?
02D6 542 BSBW DCL$GETDVAL ;IF NEQ NO
02D6 543 MOVL R1, R7 ;GET PROTECTION VALUE DESCRIPTOR
02D6 544 20$: LOCC (R2)+, #4, ACCESS ;SAVE LENGTH OF VALUE STRING
02D6 545 BEQL 50$ ;LOCATE PROTECTION CODE
02D6 546 DECL R0 ;IF EQL INVALID PROTECTION CODE
02D6 547 ADDL R8, R0 ;CALCULATE RELATIVE BIT NUMBER IN FIELD
02D6 548 BBCC R0, R9, 30$ ;CALCULATE ACTUAL BIT NUMBER
02D6 549 30$: SOBGTR R7, 20$ ;ALLOW SPECIFIED ACCESS
02D6 550 BRB 10$ ;ANY MORE TO SCAN?
02D6 551 40$: PUSHL R9 ;SET NEW DEFAULT PROTECTION ARGUMENT
02D6 552 CLRL -(SP) ;ZERO ADDRESS OF RETURN DESCRIPTOR
02D6 553 PUSHAL 4(SP) ;ADDRESS OF NEW PROTECTION
02D6 554 CALLS #3, @SYS$SETDFPROT ;SET DEFAULT PROTECTION
02D6 555 RSB
02D6 556 50$: STATUS IVPROT ;SET INVALID PROTECTION CODE
02D6 557 RSB
02D6 558 60$: STATUS IVKEYW ;SET INVALID KEYWORD
02D6 559 RSB

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0346 561 .SBTTL SET VERIFY MODE
0346 562 :+
0346 563 : DCL$SETVERIFY - SET VERIFY MODE
0346 564 :
0346 565 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET VERIFY
0346 566 : MODE DCLS COMMAND.
0346 567 :
0346 568 : INPUTS:
0346 569 :
0346 570 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0346 571 : R9 = ADDRESS OF SCRATCH STACK.
0346 572 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
0346 573 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
0346 574 :
0346 575 : OUTPUTS:
0346 576 :
0346 577 : THE VERIFY MODE IS ESTABLISHED.
0346 578 :-
0346 579
0346 580 DCL$SETVERIFY:: ;SET VERIFY MODE
0346 581
0346 582 :
0346 583 : PARSE THE COMMAND.
0346 584 :
0346 585 BSBW DCL$GETDVAL ;GET OPTION DESCRIPTOR
0346 586 BLBC R3,10$ ;IF LBC VERIFICATION SPECIFIED
0346 587 CLRL R6 ;DISABLE ALL VERIFICATION
0346 588 BRB 40$ ;IGNORE ANY KEYWORDS
0346 589 10$: MOVL #3,R6 ;ASSUME ALL VERIFICATION IS SPECIFIED
0346 590 BSBW DCL$GETDVAL ;GET KEYWORD DESCRIPTOR
0346 591 CMPL #PTR_K_ENDLINE,R5 ;EOL?
0346 592 BEQL 40$ ;YES, THEN SET SPECIFIED MODES
0346 593 MOVL #15,R6 ;ASSUME NO KEYWORDS ARE SPECIFIED
0346 594 20$: CMPB #^A/P/,(R2) ;IS FIRST CHAR 'P'?
0346 595 BEQL 25$ ;YES, THEN PROCESS 'PROCEDURE'
0346 596 CMPB #^A/P/,2(R2) ;IS THIRD CHAR 'P'?
0346 597 BNEQ 30$ ;NO, THEN PROCESS 'IMAGE'
0346 598 25$: BICL #8,R6 ;INDICATE 'PROCEDURE' SEEN
0346 599 BISL #2,R6 ;ENABLE PROCEDURE VERIFICATION
0346 600 BLBC R3,35$ ;IF LBC PROCEDURE VERIFY SPECIFIED
0346 601 BICL #2,R6 ;DISABLE PROCEDURE VERIFICATION
0346 602 BRB 35$ ;GET NEXT
0346 603 30$: BICL #4,R6 ;INDICATE 'IMAGE' SEEN
0346 604 BISL #1,R6 ;ENABLE IMAGE VERIFICATION
0346 605 BLBC R3,35$ ;IF LBC IMAGE VERIFY SPECIFIED
0346 606 BICL #1,R6 ;DISABLE IMAGE VERIFICATION
0346 607 35$: BSBW DCL$GETDVAL ;GET KEYWORD DESCRIPTOR
0346 608 CMPL #PTR_K_ENDLINE,R5 ;EOL?
0346 609 BEQL 40$ ;YES, THEN SET SPECIFIED MODES
0346 610 BRB 20$ ;GET NEXT
0346 611
0346 612 :
0346 613 : UPDATE PROCEDURE VERIFICATION STATE.
0346 614 :
0346 615 40$: BBS #3,R6,50$ ;BRANCH IF 'PROC' NOT SPECIFIED
0346 616 BISW #PRC_M_VERIFY,PRC_W_FLAGS(R11) ;ASSUME VERIFICATION IS SPECIFIED
0346 617 BBS #1,R6,50$ ;BRANCH IF SO

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SET
V04-000

F 9
- SET PARAMETER DCLS COMMAND EXECUTION
SET VERIFY MODE

16-SEP-1984 00:15:05
4-SEP-1984 23:43:09

VAX/VMS Macro V04-00
[DCL.SRC]SET.MAR;1

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(7)

68 AB 0080 8F
08 56 02

AA 039D 618
E1 03A3 619
05 03A7 620
05 03AE 621

50\$:

BICW #PRC M VERIFY, PRC_W_FLAGS(R11)
BBC #2, R8, 80\$
STATUS NORMAL
RSB

:DISABLE VERIFICATION
:BRANCH IF "IMAGE" SPECIFIED
:SET STATUS
:RETURN

```

03AF 623 .SBTTL SET IMAGE VERIFY MODE
03AF 624 :
03AF 625 : DCL$SETVERIFY_IMAGE - SET IMAGE VERIFY MODE
03AF 626 :
03AF 627 : THIS ROUTINE IS CALLED TO SET IMAGE VERIFY MODE.
03AF 628 :
03AF 629 : INPUTS:
03AF 630 :
03AF 631 : R6 = IMAGE VERIFY FLAGS, LBC MEANS CLEAR, LBS MEANS SET
03AF 632 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
03AF 633 :
03AF 634 : OUTPUTS:
03AF 635 :
03AF 636 : THE IMAGE VERIFY MODE IS ESTABLISHED.
03AF 637 :
03AF 638 :
03AF 639 60$:
03AF 640 DCL$SETVERIFY_IMAGE:: ;SET IMAGE VERIFY MODE
03AF 641 :
03AF 642 : GET INPUT STREAM INFORMATION.
03AF 643 :
03AF 644 : MOVL PRC_L_INDFAB(R11),R1 ;GET ADDRESS OF GENERIC FAB
51 1C AB D0 03AF 645 : MOVL PRC_L_IDFLNK(R11),R2 ;GET ADDR OF CURRENT IND FRAME
52 00BC CB D0 03B3 646 : MOVW IDF_W_INPIFI(R2),FAB$W_IFI(R1) ;GET INPUT IFI
0000 C1 04 A2 B0 03B8 647 :
03BE 648 :
03BE 649 : UPDATE IMAGE VERIFICATION STATE BOTH IN PRC AND FOR CURRENT INPUT STREAF.
03BE 650 :
03BE 651 : BLBC R6,70$ ;BRANCH IF /NOIMAGE
03C1 652 : BBS #PRC_V_VERIMAGE,- ;IF IMAGE VERIFY ALREADY SET,
1B 00AF CB 07 E0 03C3 653 : PRC_B_FLAGS2(R11),90$ ; THEN DONE
00AF CB 0080 8F A8 03C7 654 : BISW #PRC_M_VERIMAGE,PRC_B_FLAGS2(R11);ENABLE IMAGE VERIFICATION
0D 11 03CE 655 : BRB 80$ ;EXECUTE $MODIFY
03D0 656 :
03D0 657 70$: BBC #PRC_V_VERIMAGE,- ;IF IMAGE VERIFY ALREADY CLEAR,
0C 00AF CB 07 E1 03D2 658 : PRC_B_FLAGS2(R11),90$ ; THEN DONE
00AF CB 0080 8F AA 03D6 659 : BICW #PRC_M_VERIMAGE,PRC_B_FLAGS2(R11);DISABLE IMAGE VERIFICATION
03DD 660 :
03DD 661 80$: BSBB DCL$VERIFY_IMAGE ;ENABLE OR DISABLE VERIFICATION
07 0B 10 03DD 662 : BLBC R0,95$ ;RETURN ERROR STATUS
07 50 E9 03DF 663 :
03E2 664 90$: STATUS NORMAL ;RETURN SUCCESS
03E2 665 95$: RSB ;
03E9
  
```

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03EA 667      .SBTTL  MODIFY INPUT STREAM CHARACTERISTICS
03EA 668      :++
03EA 669      : DCLS$VERIFY_IMAGE - MODIFY THE INPUT STREAM CHARACTERISTICS.
03EA 670      :
03EA 671      : INPUTS:
03EA 672      :
03EA 673      :     R1 = INPUT FAB
03EA 674      :     R11 = ADDRESS OF PRC DATA STRUCTURE
03EA 675      :
03EA 676      : OUTPUTS:
03EA 677      :
03EA 678      :     R0 = STATUS
03EA 679      :--
03EA 680
03EA 681 DCLS$VERIFY_IMAGE::
012D CB 95 03EA 682      TSTB   PRC_B_EXONLYL(R11)      ;ARE WE IN EXE-ONLY MODE?
          4B 12 03EE 683      BNEQ   90$                ;YES, DON'T DO ANYTHING.
08 68 AB 06 E0 03FO 684
          50 01 D0 03FO 685      BBS    #PRC_V_MODE,PRC_W_FLAGS(R11),10$ ;BRANCH IF NOT INTERACTIVE
          SC AB D5 03F5 686      MOVL   #1,R0                ;ASSUME SUCCESS
          3E 13 03F8 687      TSTL   PRC_L_INDEPTH(R11)      ;BRANCH IF LEVEL 0
0000'C1 02 B0 03FB 688      BEQL   90$                ;
          0002'C1 B4 03FD 689 10$: MOVW  #RMESC_PPFCHO,FAB$L_CTX(R1) ;SET TYPE CODE
          07 E1 0402 690      CLRW   FAB$L_CTX+2(R1)        ;ZERO ISI VALUE
          0B 00AF CB 0406 691      BBC    #PRC_V_VERIMAGE - ;IF IMAGE VERIFY SET,
          50 18 AB D0 0408 692      PRC_B_FLAGS2(R11),20$ ; THEN SET THE ISI
          0000'C0 B0 040C 693      MOVL   PRC_L_INDOUSTRAB(R11),R0 ;GET ADDR OF OUTPUT RAB
          0002'C1 0410 694      MOVW  RAB$W_ISI(R0),- ;SET OUTPUT ISI
          51 DD 0414 695      FAB$L_CTX+2(R1) ;
0000'C1 00000000'8F C8 0417 696 20$: PUSHL R1 ;SAVE R1
          0419 697      BISL   #FAB$M_ESC,FAB$L_FOP(R1) ;SET ESC BIT IN FOP
          0422 698      $MODIFY FAB=(RT) ;MODIFY THE INPUT STREAM
          51 8ED0 042B 699      POPL  R1 ;RESTORE R1
0000'C1 00000000'8F CA 042E 700      BICL  #FAB$M_ESC,FAB$L_FOP(R1) ;CLEAR ESC BIT IN FOP
          0000'C1 D4 0437 701      CLRL  FAB$L_CTX(R1) ;
          05 043B 702 90$: RSB ;RETURN STATUS

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043C 704 .SBTTL SET ON MODE
043C 705 :
043C 706 :+ DCL$SETON - SET ON MODE
043C 707 :
043C 708 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET ON
043C 709 : MODE DCLS COMMAND.
043C 710 :
043C 711 : INPUTS:
043C 712 :
043C 713 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
043C 714 : R9 = ADDRESS OF SCRATCH STACK.
043C 715 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
043C 716 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
043C 717 :
043C 718 : OUTPUTS:
043C 719 :
043C 720 : THE ON MODE IS ESTABLISHED.
043C 721 :-
043C 722 :
043C 723 DCL$SETON::
043C 724 BSBW DCL$GETDVAL :SET ON MODE
043F 725 STATUS NORMAL :GET THE DESCRIPTOR FOR 'ON'
51 6A AB 9E 0446 726 MOVAB PRC W ONLEVEL(R11),R1 :SET NORMAL COMPLETION STATUS
61 07 08 91 044A 727 CMPB #8,(RT) :GET ADDRESS OF ON LEVEL CODE
07 53 E8 044D 728 BLBS R3,20$ :CHECK 'ON' LEVEL FOR RESERVED LEVEL
04 14 0450 729 BGTR 10$ :BR IF OPTION WAS NEGATED (NOON)
61 01 A1 90 0452 730 MOVB 1(R1),(R1) :BR IF 'ON' ALREADY ACTIVE
05 0456 731 10$: RSB :RESET TO SAVED VALUE
07 13 0457 732 20$: BEQL 30$ :BR IF 'ON' ALREADY AT RESEVED LEVEL
01 A1 61 90 0459 733 MOVB (R1),1(R1) :SAVE PREVIOUS 'ON' LEVEL
61 08 90 045D 734 MOVB #8,(R1) :SET TO RESERVED LEVEL
05 0460 735 30$: RSB :END OF NOON HANDLING

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0461 737 .SBTTL SET CONTROL ENABLE/DISABLE
0461 738
0461 739 :+ DCL$SETCTLY - SET CONTROL MODE
0461 740 :
0461 741 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET CONTROL=KEY
0461 742 : MODE DCLS COMMAND.
0461 743 :
0461 744 : INPUTS:
0461 745 :
0461 746 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0461 747 : R9 = ADDRESS OF SCRATCH STACK.
0461 748 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
0461 749 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
0461 750 :
0461 751 : OUTPUTS:
0461 752 :
0461 753 : CONTROL Y AND OUT-OF-BAND AST'S ARE ENABLED OR DISABLED FOR THIS
0461 754 : PROCESS.
0461 755 :
0461 756 DCL$SETCTLY::
0461 757 CLRL -(SP) ;SET CONTROL MODE
0463 758 BSBW DCL$GETDVAL ;ALLOCATE CHAR MASK ON STACK
0466 759 ASSUME PTR V_NEGATE EQ 20 ;GET OPTION DESCRIPTOR
0466 760 MOVL R3,R6 ;SAVE [NO] STATUS FOR FUTURE USE
0469 761
0469 762 BSBW DCL$GETDVAL ;GET FIRST LETTER
046C 763 CMPB R5,#PTR_K_ENDLINE ;END OF LINE?
046F 764 BNEQ 30$ ;IF YES, THEN ASSUME Y
0471 765 BSBB CTRLY ;OTHERWISE, SET CONTROL_Y BY DEFAULT
0473 766 BRB 80$ ;ALL DONE
0475 767
0475 768 30$: LOCC (R2),#26,CONTROL_CHARS ;GET INDEX OF LETTER
047B 769 BBSS R0,(SP),40$ ;SET CHAR BIT IN MASK
047F 770 40$: BSBW DCL$GETDVAL ;GET NEXT PARAMETER
0482 771 CMPB R5,#PTR_K_ENDLINE ;END OF LINE?
0485 772 BNEQ 30$ ;LOOP IF NOT
0487 773
0487 774 50$: BISL3 (SP),PRC_L_OUTOFBAND(R11),R1 ;GET CHARACTER MASK
048D 775 BLBC R6,70$ ;IF LBC, THEN ENABLE SPECIFIED
0490 776 BBC #PRC_V_CTRLY,(SP),60$ ;IF NOT CTRL/Y, THEN SKIP
0494 777 BSBB CTRLY ;DO SPECIAL CTRL/Y PROCESSING
0496 778 60$: BICL3 (SP),PRC_L_OUTOFBAND(R11),R1 ;SET MASK FOR DISABLE
049C 779 70$: JSB DCL$RESETOOB ;ENABLE/DISABLE APPROPRIATE AST ROUTINES
04A2 780
04A2 781 80$: MOVL (SP)+,R0 ;RESTORE STACK
04A5 782 STATUS NORMAL ;SET NORMAL COMPLETION STATUS
04AC 783 RSB
04AD 784
04AD 785 CTRLY: BISL #PRC_M_CTRLY,PRC_L_OUTOFBAND(R11) ;ASSUME ENABLE SPECIFIED
04B6 786 BLBC R6,10$ ;IF LBC, THEN ENABLE SPECIFIED
04B9 787 BICL #PRC_M_CTRLY,PRC_L_OUTOFBAND(R11) ;CLEAR CTRL/Y BIT IN MASK
04C2 788 BSBW W*DCL$ONCTLYRST ;RESET CONTROL Y COMMAND TEXT
04C5 789 10$: RSB
04C6 790

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04C6 792 .SBTTL SET PROMPT
04C6 793 :+
04C6 794 : DCL$SETPROMPT - SET PROMPT
04C6 795 :
04C6 796 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SET PROMPT
04C6 797 : DCLS COMMAND.
04C6 798 :
04C6 799 : INPUTS:
04C6 800 :
04C6 801 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
04C6 802 : R9 = ADDRESS OF SCRATCH STACK.
04C6 803 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
04C6 804 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
04C6 805 :
04C6 806 : OUTPUTS:
04C6 807 :
04C6 808 : THE DCL PROMPT STRING IS CHANGED.
04C6 809 :
04C6 810 DCL$SETPROMPT::
04C6 811 MOVW DCL$CRLF,PRC_W_PMPTCTRL(R11):ASSUME /CONTROL
04CF 812 SETBIT PRC_V_CARRCNTL,PRC_W_FLAGS(R11) :SET CR/LF FLAG
04D3 813 BSBW DCL$GETDVAL :GET FIRST TOKEN
04D6 814 CMPB R5,#PTR_K_COMDQUAL :/[NO]CONTROL QUALIFIER?
04D9 815 BNEQ 20$ :NO, THEN BRANCH
04DB 816 ASSUME PTR_V_NEGATE EQ 20
04DB 817 BLBC R3,T0$ :BRANCH IF NOT NEGATED
04DE 818 CLRW PRC_W_PMPTCTRL(R11) :SET NOCONTROL
04E2 819 CLRBIT PRC_V_CARRCNTL,PRC_W_FLAGS(R11) :INDICATE NO CR/LF
04E6 820 10$: BSBW DCL$GETDVAL :GET 'PROMPT' TOKEN
04E9 821 20$: BSBW DCL$GETDVAL :GET PROMPT STRING
04EC 822 CMPB R5,#PTR_K_ENDLINE :IF PRESENT
04EF 823 BNEQ 30$ :THEN RESET THE PROMPT
04F1 824 MOVL DCL$T_PROMPT,- :ELSE RESTORE THE DEFAULT
04F7 825 PRC_B_CONTINUE(R11)
04FA 826 #DCL$C_PROMPTLEN,-
04FD 827 PRC_B_PROMPTLEN(R11)
0500 828 BRB 80$- :DONE
50 000388FA 8F D0 0502 829 30$: MOVL #CLIS STRTOOLNG,R0 :ASSUME STRING IS TOO LONG
20 51 D1 0509 830 CMPL R1,#ENT_K_MAX_PROMPT :IS IT TOO LONG?
13 1A 050C 831 BGTRU 90$ :YES, THEN ERROR
050E 832 ASSUME ENT_K_MAX_PROMPT LT 256
050E 833 ADDB3 #3,R1,- :SAVE LENGTH OF PROMPT
0514 834 PRC_B_PROMPTLEN(R11)
0514 835 MOV3 R1,TR2),PRC_G_PROMPT(R11) :SAVE PROMPT STRING
051A 836 80$: STATUS NORMAL :RETURN NORMAL STATUS
0521 837 90$: RSB
0522 838
0522 839 .END

```

SET
Symbol table

- SET PARAMETER DCLS COMMAND EXECUTION

L 9

16-SEP-1984 00:15:05 VAX/VMS Macro V04-00
4-SEP-1984 23:43:09 [DCL.SRC]SET.MAR;1

SS.TMP1	= 00000001			LNMSV CONCEALED	= 00000008
SS.TMP2	= 00000061			LNMS_ATTRIBUTES	= 00000003
ACCESS	00000000	R	02	LNMS_MAX_INDEX	= 00000007
CLASS	00000004	R	02	LNMS_STRING	= 00000002
CLIS_DIRECT	= 00038030			LOGSC_PROCESS	= 00000002
CLIS_INVUIC	= 000381A8			L_ATTR	= 00000010
CLIS_IVKEYW	= 00038060			L_MAX_INDEX	= 00000014
CLIS_IVPROT	= 00038070			MAX_TRANS_LVL5	= 0000000A
CLIS_NORMAL	= 00030001			PCBSL_UIC	= 000000BC
CLIS_STRTOOLNG	= 000388FA			PRC_B_CONTINUE	000000F3
CONTROL_CHARS	0000001D	R	02	PRC_B_DEFRADIX	000000AE
CTRLV	000004AD	R	02	PRC_B_EXMDEPMOD	000000AD
CVTUIC	00000143	R	02	PRC_B_EXMDEPWID	000000AC
DCL\$CRLF	*****	X	02	PRC_B_EXONLYL	0000012D
DCL\$CVTUIC	000000A5	RG	02	PRC_B_FLAGS2	000000AF
DCL\$C_PROMPTLEN	*****	X	02	PRC_B_IMGFLAG	00000078
DCL\$GETDVAL	*****	X	02	PRC_B_OUTFLAGS	0000012C
DCL\$ONCTLYRST	*****	X	02	PRC_B_PROMPTLEN	000000F0
DCL\$RESETOOB	*****	X	02	PRC_C_LENGTH	00000534
DCL\$SETCTLY	0000C461	RG	02	PRC_G_COMMANDS	00000133
DCL\$SETDEFAULT	00000159	RG	02	PRC_G_PROMPT	000000F4
DCL\$SETON	0000043C	RG	02	PRC_K_LENGTH	00000534
DCL\$SETPROMPT	000004C6	RG	02	PRC_L_CURRKEY	00000048
DCL\$SETPROT	000002D6	RG	02	PRC_L_EXMDEPADR	000000A8
DCL\$SETUIC	00000037	RG	02	PRC_L_EXTARG	00000094
DCL\$SETVERIFY	00000346	RG	02	PRC_L_EXTBLK	0000008C
DCL\$SETVERIFY_IMAGE	000003AF	RG	02	PRC_L_EXTCOD	0000009C
DCL\$T_DSKNAM	00000014	RG	02	PRC_L_EXTHND	00000090
DCL\$T_PROMPT	*****	X	02	PRC_L_EXTPRM	00000098
DCL\$VERIFY_IMAGE	000003EA	RG	02	PRC_L_IDFLNK	000000BC
ENT_K_MAX_PROMPT	= 00000020			PRC_L_IMGACTSTS	00000080
FAB\$L_CTX	*****	X	02	PRC_L_INDCLOCK	0000007C
FAB\$M_FOP	*****	X	02	PRC_L_INDEPTH	0000005C
FAB\$M_ESC	*****	X	02	PRC_L_INDFAB	0000001C
FAB\$W_IFI	*****	X	02	PRC_L_INDIRPRAB	00000014
IDF_B_OUTFLAGS	00000038			PRC_L_INDOUTRAB	00000018
IDF_C_LENGTH	00000074			PRC_L_INPRAB	00000008
IDF_K_LENGTH	00000074			PRC_L_LASTKEY	0000004C
IDF_L_FILENAME	00000068			PRC_L_LSTSTATUS	000000B0
IDF_L_INPRABCTX	0000000C			PRC_L_ONCTLY	000000B8
IDF_L_LNK	00000000			PRC_L_ONERROR	0000006C
IDF_L_ONCTLY	00000060			PRC_L_OUTOFBAND	000000B4
IDF_L_ONERROR	00000008			PRC_L_OUTRAB	0000000C
IDF_L_OUTRABCTX	00000024			PRC_L_OUTRABCTX	00000118
IDF_L_SEARCHCTX	00000064			PRC_L_PPFLIST	00000070
IDF_Q_LABEL	00000018			PRC_L_RECALLPTR	0000012F
IDF_Q_LOCAL	00000010			PRC_L_RESTART	00000058
IDF_T_INPDVI	0000003C			PRC_L_SAVAP	00000000
IDF_T_OUTDVI	00000028			PRC_L_SAVFP	00000004
IDF_W_FLAG	0000005E			PRC_L_SEVERITY	00000050
IDF_W_INPDID	00000052			PRC_L_SPWN	000000C0
IDF_W_INPFID	0000004C			PRC_L_STACKLM	000000A4
IDF_W_INPIFI	00000004			PRC_L_STACKPT	000000A0
IDF_W_INPRFA	00000058			PRC_L_STATUS	00000054
IDF_W_ONLEVEL	00000006			PRC_L_STS	00000084
IDF_W_OUTIFI	00000020			PRC_L_STV	00000088
IDF_W_OUTISI	00000022			PRC_L_SYMBOL	00000060

SET
Symbol table

M 9
- SET PARAMETER DCLS COMMAND EXECUTION

16-SEP-1984 00:15:05 VAX/VMS Macro V04-00
4-SEP-1984 23:43:09 [DCL.SRC]SET.MAR;1

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PRC_L_TMBX          00000074
PRC_L_TRMLIST      00000010
PRC_M_CTRLY       = 02000000
PRC_M_VERIFY      = 00000080
PRC_M_VERIMAGE    = 00000080
PRC_Q_ALLOCREG    00000020
PRC_Q_COMMAND     000000E0
PRC_Q_FLUSHTIME   000000D0
PRC_Q_GLOBAL      00000028
PRC_Q_IMAGENAME   000000D8
PRC_Q_KEYPAD      00000040
PRC_Q_LABEL       00000030
PRC_Q_LOCAL       00000038
PRC_Q_SAVEPRIV   000000E8
PRC_T_OUTDVI     = 0000011C
PRC_V_CARRCNTL   = 00000000
PRC_V_CTRLY      = 00000019
PRC_V_MODE       = 00000006
PRC_V_VERIMAGE   = 00000007
PRC_W_ASTIOSB    000000C6
PRC_W_ASTRETN    000000C8
PRC_W_ASTSTATUS  000000C4
PRC_W_ATTMBX     0000007A
PRC_W_FLAGS      00000068
PRC_W_INPCHAN    00000064
PRC_W_ONLEVEL    0000006A
PRC_W_OUTIFI     00000114
PRC_W_OUTISI     00000116
PRC_W_OUTMBXCHN  000000CA
PRC_W_OUTMBXREF  000000CE
PRC_W_OUTMBXSIZ  000000CC
PRC_W_PMPTCTRL   000000F1
PRC_W_WAITIOSB   00000066
PTR_B_LEVEL      00000004
PTR_B_NUMBER     00000005
PTR_B_PARMCNT    00000006
PTR_B_VALUE      00000000
PTR_C_LENGTH     0000000C
PTR_K_COLON      = 00000002
PTR_K_COMDQUAL   = 00000000
PTR_K_ENDLINE    = 00000004
PTR_K_LENGTH     = 0000000C
PTR_K_PARAMETR   = 00000003
PTR_L_DESCR      00000000
PTR_L_ENTITY     00000008
PTR_V_NEGATE     = 00000014
Q_LOGRAM        = 00000000
Q_TABLE         = 00000008
RABSW_ISI       ***** X 02
RMESC_PPFCHO    = 00000002
SCHSGE_CURPCB   ***** X 02
SETUIC         0000008F R 02
SSS_NOLOGNAM    ***** X 02
SSS_NORMAL      ***** X 02
SYSSASCTOID     ***** GX 02
SYSSCMKRNL      ***** GX 02
SYSSCRELOG      ***** X 02

```

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SYSSMODIFY      ***** GX 02
SYSSSETDDIR     ***** X 02
SYSSSETDFPROT   ***** X 02
SYSSSTRNLNM     ***** GX 02
SYSSSTRNLOG     ***** GX 02
S_XLT_BUF       = 0000011C
TABNAM          = 00000008 R 02
TABNAMSZ        = 0000000C
T_STRING_BUF    = 0000001C
WRK_B_CMDOPT    FFFFFFFC3
WRK_B_MAXPARM   FFFFFFFD0
WRK_B_MINPARM   FFFFFFFD1
WRK_B_PARMCNT   FFFFFFFCE
WRK_B_PARMSUM   FFFFFFFCF
WRK_B_RECALLCNT FFFFFFFC5
WRK_B_VALLEV    FFFFFFFC4
WRK_B_VERBTYP   FFFFFFFC2
WRK_C_LENGTH    FFFFF486
WRK_G_BUFFER    FFFFF492
WRK_G_INPBUF    FFFFF896
WRK_G_RESULT    FFFFF9B6
WRK_K_LENGTH    FFFFF486
WRK_L_CHARPTR   FFFFF48E
WRK_L_DISALLOW  FFFFFE6
WRK_L_ERRORRTN  FFFFF9AE
WRK_L_EXPANDPTR FFFFF486
WRK_L_IMAGE     FFFFFE2
WRK_L_MARKPTR   FFFFF48A
WRK_L_PAROUT    FFFFFFFD2
WRK_L_PMPTADDR  FFFFF9A2
WRK_L_PROMPTRTN FFFFF9A6
WRK_L_PROPTR    FFFFFFFC6
WRK_L_QUABLK    FFFFFFFCA
WRK_L_READRTN   FFFFF9AA
WRK_L_RECALLPTR FFFFFFEA
WRK_L_RSLEND    FFFFFFB6
WRK_L_RSLNXT    FFFFFFBA
WRK_L_SAVAP     FFFFFFFF8
WRK_L_SAVFP     FFFFFFFFC
WRK_L_SAVSP     FFFFFFFF4
WRK_L_SIGNALRTN FFFFFFD6
WRK_L_SPECRTN   FFFFF9B2
WRK_L_TAB_VEC   FFFFFFDE
WRK_L_VERB      FFFFFFBE
WRK_W_FLAGS     FFFFFFFF0
WRK_W_FLAGS2    FFFFFFFF2
WRK_W_IMGCHAN   FFFFFFFEE
WRK_W_PMPTLEN   FFFFF99E
W_STRIN_LEN     = 00000018
_$$_            = 000000EF

```

! 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	FFFFFFFFC (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
DCL\$ZCODE	00000522 (1314.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	9	00:00:00.05	00:00:01.73
Command processing	81	00:00:00.68	00:00:06.50
Pass 1	308	00:00:12.24	00:00:38.76
Symbol table sort	0	00:00:01.49	00:00:02.52
Pass 2	146	00:00:02.71	00:00:07.51
Symbol table output	25	00:00:00.21	00:00:00.80
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	571	00:00:17.41	00:00:57.85

The working set limit was 1500 pages.
63039 bytes (124 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 944 non-local and 65 local symbols.
839 source lines were read in Pass 1, producing 18 object records in Pass 2.
50 pages of virtual memory were used to define 33 macros.

! Macro library statistics !

Macro library name	Macros defined
-\$255\$DUA28:[SYSLIB]SYSBLDMLB.MLB;1	0
-\$255\$DUA28:[DCL.OBJ]DCL.MLB;1	10
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	14
TOTALS (all libraries)	26

1173 GETS were required to define 26 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SET/OBJ=OBJ\$:SET MSRC\$:SET/UPDATE=(ENH\$:SET)+EXECMLS/LIB+LIB\$:DCL/LIB+SYSS\$LIBRARY:SYSBLDMLB/LIB

Terminal 1	Terminal 2	Terminal 3	Terminal 4	Terminal 5	Terminal 6	Terminal 7	Terminal 8	Terminal 9	Terminal 10	Terminal 11	Terminal 12
Terminal 13	Terminal 14	Terminal 15	Terminal 16	Terminal 17	Terminal 18	Terminal 19	Terminal 20	Terminal 21	Terminal 22	Terminal 23	Terminal 24
Terminal 25	Terminal 26	Terminal 27	Terminal 28	Terminal 29	Terminal 30	Terminal 31	Terminal 32	Terminal 33	Terminal 34	Terminal 35	Terminal 36
Terminal 37	Terminal 38	Terminal 39	Terminal 40	Terminal 41	Terminal 42	Terminal 43	Terminal 44	Terminal 45	Terminal 46	Terminal 47	Terminal 48
Terminal 49	Terminal 50	Terminal 51	Terminal 52	Terminal 53	Terminal 54	Terminal 55	Terminal 56	Terminal 57	Terminal 58	Terminal 59	Terminal 60
Terminal 61	Terminal 62	Terminal 63	Terminal 64	Terminal 65	Terminal 66	Terminal 67	Terminal 68	Terminal 69	Terminal 70	Terminal 71	Terminal 72
Terminal 73	Terminal 74	Terminal 75	Terminal 76	Terminal 77	Terminal 78	Terminal 79	Terminal 80	Terminal 81	Terminal 82	Terminal 83	Terminal 84
Terminal 85	Terminal 86	Terminal 87	Terminal 88	Terminal 89	Terminal 90	Terminal 91	Terminal 92	Terminal 93	Terminal 94	Terminal 95	Terminal 96
Terminal 97	Terminal 98	Terminal 99	Terminal 100	Terminal 101	Terminal 102	Terminal 103	Terminal 104	Terminal 105	Terminal 106	Terminal 107	Terminal 108
Terminal 109	Terminal 110	Terminal 111	Terminal 112	Terminal 113	Terminal 114	Terminal 115	Terminal 116	Terminal 117	Terminal 118	Terminal 119	Terminal 120
Terminal 121	Terminal 122	Terminal 123	Terminal 124	Terminal 125	Terminal 126	Terminal 127	Terminal 128	Terminal 129	Terminal 130	Terminal 131	Terminal 132