

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

```

LL      000000  GGGGGGGG  IIIIII  CCCCCCCC  AAAAAA  LL
LL      000000  GGGGGGGG  IIIIII  CCCCCCCC  AAAAAA  LL
LL      00      00  GG      II      CC      AA      AA  LL
LL      00      00  GG      II      CC      AA      AA  LL
LL      00      00  GG      II      CC      AA      AA  LL
LL      00      00  GG      II      CC      AA      AA  LL
LL      00      00  GG      II      CC      AA      AA  LL
LL      00      00  GG      II      CC      AA      AA  LL
LL      00      00  GG  GGGGGG  II      CC      AA      AA  LL
LL      00      00  GG  GGGGGG  II      CC      AAAAAAAAAA  LL
LL      00      00  GG      GG      II      CC      AAAAAAAAAA  LL
LL      00      00  GG      GG      II      CC      AA      AA  LL
LL      00      00  GG      GG      II      CC      AA      AA  LL
LLLLLLLLLLLL  000000  GGGGGG  IIIIII  CCCCCCCC  AA      AA  LLLLLLLLLL
LLLLLLLLLLLL  000000  GGGGGG  IIIIII  CCCCCCCC  AA      AA  LLLLLLLLLL

```

```

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLLLL  IIIIII  SSSSSSSS

```

(3)	130	ALLOCATE DEVICE
(4)	271	ASSIGN LOGICAL NAME TO EQUIVALENCE STRING
(5)	357	DEFINE LOGICAL NAME EQUIVALENCE
(7)	482	DEALLOCATE DEVICE
(8)	515	DEASSIGN LOGICAL NAME EQUIVALENCE
(9)	563	TEST IF LOGICAL NAME IS SYSS\$OUTPUT
(10)	591	PROCESS COMMON COMMAND QUALIFIERS
(11)	740	GET TRANSLATION ATTRIBUTES
(12)	772	CREATE LOGICAL NAME TABLE
(13)	945	SHOW LOGICAL NAME EQUIVALENCES

```

0000 1 .TITLE LOGICAL - LOGICAL NAME COMMANDS
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28 LOGICAL NAME DCLS COMMAND EXECUTION
0000 29
0000 30 ALLOCATE DEVICE
0000 31 ASSIGN LOGICAL NAME
0000 32 DEALLOCATE DEVICE
0000 33 DEASSIGN LOGICAL NAME
0000 34 DEFINE LOGICAL NAME
0000 35 CREATE LOGICAL NAME TABLE
0000 36 SHOW LOGICAL NAME TRANSLATION
0000 37
0000 38 Peter George 20-April-1983
0000 39
0000 40 MODIFIED BY:
0000 41
0000 42 V03-007 HWS0078 Harold Schultz 02-Jul-1984
0000 43 Fix negation of table qualifiers in ASSIGN, DEASSIGN,
0000 44 and DEFINE commands.
0000 45
0000 46 V03-006 HWS0041 Harold Schultz 12-Apr-1984
0000 47 Add ALLOCATE /GENERIC.
0000 48
0000 49 V03-005 PCG0003 Peter George 20-Mar-1984
0000 50 Add /JOB qualifier.
0000 51
0000 52 V03-004 HWS0005 Harold Schultz 07-Feb-1984
0000 53 Added /PROTECTION=(SY:RWED,OW:RWED,...) qualifier for
0000 54 when creating a logical name table.
0000 55 Add /LOG qualifier when creating a logical name table.
0000 56 Output informational messages after table creation.
0000 57

```

```
0000 58 : V03-003 TMK0001 Todd M. Katz 12-Oct-1983
0000 59 : Translate logical names using LNMSDCL_LOGICAL as the table
0000 60 : name instead of LNMSDEFAULT_SEARCH.
0000 61 :
0000 62 : V03-002 PCG0002 Peter George 01-Jul-1983
0000 63 : Fix bug in ALLOCATE command parsing.
0000 64 : Replace old logical name commands.
0000 65 : Stop fooling around with the CRELOG bit.
0000 66 :
0000 67 : V03-001 PCG0001 Peter George 15-Jun-1983
0000 68 : Return more helpful status when ALLOCATE fails.
0000 69 : Pass equivalence name to DCL$OPEN_OUTPUT.
0000 70 :---
```

```

0000 72 :
0000 73 : MACRO LIBRARY CALLS
0000 74 :
0000 75 :
0000 76 PRCDEF ;DEFINE PROCESS WORK AREA
0000 77 WRKDEF ;DEFINE COMMAND WORK AREA
0000 78 PTRDEF ;DEFINE RESULT PARSE DESCRIPTOR FORMAT
0000 79 $CLMSGDEF ;DEFINE ERROR/STATUS VALUES
0000 80 $LNMDDEF ;DEFINE LOGICAL NAME OFFSETS
0000 81 $PSLDEF ;DEFINE PROCESSOR STATUS FIELDS
0000 82 $SSDEF ;DEFINE SYSTEM STATUS VALUES
0000 83
00000000 84 .PSECT DCL$ZCODE, BYTE, RD, NOWRT
0000 85
0000 86 :
0000 87 : LOCAL DATA
0000 88 :
0000 89 OUTPUTNAM:
54 55 50 54 55 4F 24 53 59 53 00' 0000 90 .ASCIC 'SYSSOUTPUT'
OA 0000
000B 91 LNMSPROCESS:
53 53 45 43 4F 52 50 24 4D 4E 4C 00' 000B 92 .ASCIC 'LNMSPROCESS'
OB 000B
0017 93 LNMSJOB:
42 4F 4A 24 4D 4E 4C 00' 0017 94 .ASCIC 'LNMSJOB'
07 0017
001F 95 LNMSGROUP:
50 55 4F 52 47 24 4D 4E 4C 00' 001F 96 .ASCIC 'LNMSGROUP'
09 001F
0029 97 LNMS$SYSTEM:
4D 45 54 53 59 53 24 4D 4E 4C 00' 0029 98 .ASCIC 'LNMS$SYSTEM'
OA 0029
0034 99 LNMSDCL_LOGICAL:
47 4F 4C 5F 4C 43 44 24 4D 4E 4C 00' 0034 100 .ASCIC 'LNMSDCL_LOGICAL'
4C 41 43 49 0040
OF 0034
0044 101 LNMSPROCESS_DIRECTORY:
53 53 45 43 4F 52 50 24 4D 4E 4C 00' 0044 102 .ASCIC 'LNMSPROCESS_DIRECTORY'
59 52 4F 54 43 45 52 49 44 5F 0050
15 0044
005A 103 LNMSFILE_DEV:
45 44 5F 45 4C 49 46 24 4D 4E 4C 00' 005A 104 .ASCIC 'LNMSFILE_DEV'
56 0066
OC 005A
0067 105 UNDEFINED:
44 45 4E 49 46 45 44 4E 55 00' 0067 106 .ASCIC 'UNDEFINED'
09 0067
0071 107 LOGICALMSG:
41 21 2C 20 3D 20 53 41 21 20 20 00' 0071 108 .ASCIC ' !AS = '!AS' (!AS)'
29 53 41 21 28 20 20 22 53 007D
14 0071
52 57 45 44 0086 109 ACCESS: .ASCII /DEWR/ ;ACCESS PROTECTION CODES
53 4F 47 57 008A 110 CLASS: .ASCII /WGOS/ ;PROTECTION CLASSES
008E 111 :
008E 112 : DEFINE OFFSETS FOR COMMON PARSING DATA STRUCTURE
008E 113 :
00000020 008E 114 EQUAM = 32

```

00000018	008E	115	LOGNAM = 24
00000010	008E	116	TABNAM = 16
0000000C	008E	117	ACMODE = 12
00000008	008E	118	QUAL = 8
0000FF00	008E	119	DEF_PROT = ^XFF00
00000000	008E	120	LOG_V = 0
00000001	008E	121	LOG_M = 1
00000001	008E	122	ATTR_V = 1
00000002	008E	123	ATTR_M = 2
00000002	008E	124	DEF_V = 2
00000004	008E	125	DEF_M = 4
00000004	008E	126	NAME_ATTR = 4
00000000	008E	127	TRAN_ATTR = 0
	008E	128	

```

008E 130      .SBTTL  ALLOCATE DEVICE
008E 131      :
008E 132      :+
008E 133      : DCL$ALLOCATE - ALLOCATE DEVICE
008E 134      :
008E 135      : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE ALLOCATE
008E 136      : COMMAND.
008E 137      :
008E 138      : INPUTS:
008E 139      :
008E 140      :     R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
008E 141      :     R9 = ADDRESS OF SCRATCH STACK.
008E 142      :     R10 = BASE ADDRESS OF COMMAND WORK AREA.
008E 143      :     R11 = BASE ADDRESS OF PROCESS WORK AREA.
008E 144      :
008E 145      : OUTPUTS:
008E 146      :
008E 147      :     THE SPECIFIED DEVICE IS ALLOCATED AND ASSIGNED THE SPECIFIED LOGICAL
008E 148      :     NAME. IF THE LOGICAL NAME WAS PREVIOUSLY ASSIGNED, THEN A MESSAGE TO
008E 149      :     THAT EFFECT IS WRITTEN TO THE OUTPUT STREAM.
008E 150      :
008E 151      : DCL$ALLOCATE::
008E 152      :
008E 153      :     ALLOCATE AND INIT COMMON LOGICAL NAME DATA STRUCTURE.
008E 154      :
59 10 C2 008E 154      SUBL      #16,R9      ; ALLOCATE PHYSICAL DEV BUFFER
79 59 D0 0091 155      MOVL     R9,-(R9)      ; INIT THE EQUIV NAME DESCR
79 10 3C 0094 156      MOVZWL  #16,-(R9)      ;
55 BE AF 9E 0097 157      CLRQ    -(R9)      ; ALLOCATE LOG NAME DESCR
54 85 9A 0099 158      MOVAB   LNMSFILE_DEV,R5      ; SET LOGICAL NAME TABLE
79 54 7D 00A0 159      MOVZBL  (R5)+,R4      ;
79 02 D0 00A3 160      MOVQ    R4,-(R9)      ; SAVE THE DESCRIPTOR
79 01 D0 00A6 161      MOVL     #PSL$C_SUPER,-(R9)      ; AND SUPERVISOR MODE
58 59 D0 00A9 162      MOVL     #LOG_M,-(R9)      ; ASSUME /LOG DEFAULTED
79 79 7C 00AB 163      CLRQ    -(R9)      ; SET DEFAULT NAME/TRAN ATTRIBUTES
58 59 D0 00AB 164      MOVL     R9,R8      ; COPY THE BASE OF THE DATA STRUCTURE
79 79 D4 00AE 165      CLRL    -(R9)      ; ALLOCATE /TYPE VALUE
008E 166      :
57 0908 8F 3C 00B0 167      CLRL    R6      ; SET NO TERMINATOR YET
008E 168      MOVZWL  #SS$_NOSUCHDEV,R7      ; PRESET ERROR STATUS
008E 169      :
008E 170      :
008E 171      : Process /log and /type command qualifiers.
008E 172      :
008E 173      :
03 FF46' 30 00B7 173      10$:  BSBW    DCL$GETDVAL      ; GET NEXT TOKEN
03 55 91 00BA 174      CMPB    R5,#PTR_K_PARAMETR      ; PARAMETER VALUE?
03 2C 13 00BD 175      BEQL    40$      ; YES, THEN NO /GENE OR /LOG
51 FF3E' 30 00BF 176      BSBW    DCL$GETNVAL      ; GET QUALIFIER TYPE
00 00'8F 91 00C2 177      CMPB    #CLISK_ALLO_GENE,R1      ; IS IT /GENE
08 A8 01 C8 00C8 178      BEQL    20$      ; YES, THEN BRANCH
08 A8 01 E9 00CC 179      BISL    #LOG_M,QUAL(R8)      ; ASSUME /LOG
08 A8 01 CA 00CF 180      BLBC    R3,10$      ; BRANCH IF SO
08 A8 01 E2 11 00D3 181      BICL    #LOG_M,QUAL(R8)      ; SET /NOLOG
69 DD 53 E8 00D7 182      BRB     10$      ; GET NEXT TOKEN
69 01 D0 00DA 183      CLRL    (R9)      ; ASSUME /NOGENERIC
69 01 D0 00DA 184      BLBS    R3,10$      ; BRANCH IF SO
008E 185      MOVL     #1,(R9)      ; IT WAS /GENERIC
008E 186      BRB     10$      ; GET NEXT TOKEN

```



```

00DF 187
00DF 188 :
00DF 189 : Return allocation error.
00DF 190 :
50 57 D0 00DF 191 90$: MOVL R7,R0 ;SET ERROR STATUS
05 05 00E2 192 RSB ;EXIT
00E3 193 :
00E3 194 :
00E3 195 : Process the device names.
00E3 196 :
05 FF1A' 30 00E3 197 30$: BSBW DCL$GETDVAL ;GET NEXT TOKEN
05 56 91 00E6 198 CMPB R6,#PTR_K_COMMA ;ANOTHER PARAMETER VALUE IN LIST?
03 F4 12 00E9 199 BNEQ 90$ ;NO, THEN ERROR
03 55 91 00EB 200 40$: CMPB R5,#PTR_K_PARAMETR ;PARAMETER VALUE?
03 EF 12 00EE 201 BNEQ 90$ ;NO, THEN ERROR
56 54 D0 00F0 202 MOVL R4,R6 ;SAVE TOKEN TERMINATOR
FF 0A' 30 00F3 203 BSBW DCL$COMPSTRING ;REMOVE ANY DOUBLE QUOTES
18 A8 51 7D 00F6 204 MOVQ R1,LOGNAM(R8) ;SAVE THE DESCRIPTOR
FF A241 3A 91 00FA 205 CMPB #^A/;/,-1(R2)[R1] ;DEVICE NAME END WITH A COLON?
03 12 00FF 206 BNEQ 50$ ;IF NEQ NO
18 A8 D7 0101 207 DECL LOGNAM(R8) ;REDUCE LENGTH OF DEVICE NAME
50 69 D0 0104 208 50$: MOVL (R9),R0 ;GET /GENERIC INDICATOR
0107 209 $ALLOC_S LOGNAM(R8),EQUAM(R8),- ;ALLOCATE DEVICE
0107 210 EQUAM(R8),#0,R0 ;
57 50 D0 011B 211 MOVL R0,R7 ;SAVE FINAL STATUS
C2 50 E9 011E 212 BLBC R0,30$ ;IF ERROR, TRY NEXT DEVICE IN LIST
0121 213 :
0121 214 :
0121 215 : Output the device allocated message.
0121 216 :
10 08 A8 00 E1 0121 217 BBC #LOG V,QUAL(R8),80$ ;SKIP IF /NOLOG
20 A8 7F 0126 218 PUSHAQ EQUAM(R8) ;PUSH DESCRIPTOR ADDRESS
50 51 01 0129 219 MOVL #1,R1 ;SET ARG COUNT
50 0003DDE3 8F D0 012C 220 MOVL #CLIS$ALLOC,R0 ;SET STATUS
FECA' 30 0133 221 BSBW DCL$FORMMSG ;OUTPUT INFORMATIONAL MESSAGE
0136 222 :
0136 223 :
0136 224 : Get the requested logical name.
0136 225 :
03 FEC7' 30 0136 226 80$: BSBW DCL$GETDVAL ;GET NEXT PARAMETER VALUE
03 55 91 0139 227 CMPB R5,#PTR_K_PARAMETR ;PARAMETER VALUE?
02 13 013C 228 BEQL 60$ ;CONTINUE IF LOGICAL NAME FOUND
03 58 11 013E 229 BRB 95$ ;EXIT IF NOT
05 56 91 0140 230 60$: CMPB R6,#PTR_K_COMMA ;STILL IN P1 LIST?
05 05 12 0143 231 BNEQ 70$ ;IF P2 FOUND, ASSIGN THE LOGICAL NAM
56 54 D0 0145 232 MOVL R4,R6 ;COPY TERMINATOR TYPE CODE
EC 11 0148 233 BRB 80$ ;LOOP UNTIL P2 OR EOL FOUND
014A 234 :
FF A241 FEB3' 30 014A 235 70$: BSBW DCL$COMPSTRING ;REMOVE QUOTATION MARKS
FF A241 3A 91 014D 236 CMPB #^A/;/,-1(R2)[R1] ;LOGICAL NAME END WITH COLON?
02 12 0152 237 BNEQ 75$ ;IF NEQ NO
18 A8 51 D7 0154 238 DECL R1 ;REDUCE LENGTH OF LOGICAL NAME
18 A8 51 7D 0156 239 75$: MOVQ R1,LOGNAM(R8) ;SAVE THE LOGICAL NAME
015A 240 :
015A 241 :
015A 242 : Create the required item list.
015A 243 :

```

7E	20	7E	7C	015A	244	CLRQ	-(SP)	; TERMINATE THE LIST, ZERO LEN ADDR
02	AE	02	7D	015C	245	MOVQ	EQUAM(R8),-(SP)	; SET THE EQUIV NAME DESCR
	57	5E	80	0160	246	MOVW	#LNMS_STRING,2(SP)	; SET THE ITEM TYPE
			DO	0164	247	MOVL	SP,R7	; GET THE ITEM LIST ADDRESS
				0167	248			
				0167	249	\$CRELM_S	ATTR=NAME ATTR(R8),-	; CREATE THE REQUESTED NAME
				0167	250		TABNAM=TABNAM(R8),-	:
				0167	251		LOGNAM=LOGNAM(R8),-	:
				0167	252		ACMODE=ACMODE(R8),-	:
				0167	253		ITMLST=(R7)	:
				017C	254			:
	5E	10	CO	017C	255	ADDL	#4*4,SP	; POP THE ITEM LIST
				017F	256			
				017F	257			
				017F	258			
				017F	259			
				017F	260			
50	0631	8F	B1	017F	260	CMPW	#SS\$ SUPERSEDE,R0	; PREVIOUS ASSIGNMENT SUPERSEDED?
		1C	12	0184	261	BNEQ	96\$; IF NEQ NO
10	08	A8	00	E1	0186	BBC	#LOG_V,QUAL(R8),95\$; BRANCH IF /NOLOG
		18	A8	9F	018B	PUSHAB	LOGNAM(R8)	; SET LOGICAL NAME ADDRESS
		51	01	DO	018E	MOVL	#1,R1	; SET FAO COUNT
50	0003DDEB	8F	DO	0191	265	MOVL	#CLIS SUPERSEDE,R0	; SET STATUS
		FE65	30	0198	266	BSBW	DCL\$FORMMSG	; OUTPUT MESSAGE
				019B	267			
				019B	268	95\$:	STATUS NORMAL	; RETURN SUCCESS
			05	01A2	269	96\$:	RSB	; EXIT

Output informational message if appropriate.

```

01A3 271      .SBTTL ASSIGN LOGICAL NAME TO EQUIVALENCE STRING
01A3 272      :+
01A3 273      : DCL$ASSIGN - ASSIGN LOGICAL NAME TO EQUIVALENCE STRING
01A3 274      :
01A3 275      : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE ASSIGN
01A3 276      : COMMAND.
01A3 277      :
01A3 278      : INPUTS:
01A3 279      :
01A3 280      :     R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
01A3 281      :     R9 = ADDRESS OF SCRATCH STACK.
01A3 282      :     R10 = BASE ADDRESS OF COMMAND WORK AREA.
01A3 283      :     R11 = BASE ADDRESS OF PROCESS WORK AREA.
01A3 284      :
01A3 285      : OUTPUTS:
01A3 286      :
01A3 287      :     THE SPECIFIED LOGICAL NAME IS ASSIGNED TO THE SPECIFIED EQUIVALENCE
01A3 288      :     STRING. IF A PREVIOUS LOGICAL ASSIGNMENT IS SUPERSEDED, THEN A
01A3 289      :     MESSAGE TO THAT EFFECT IS WRITTEN TO THE OUTPUT STREAM.
01A3 290      : -
01A3 291      :
01A3 292      DCL$ASSIGN::                                ;ASSIGN LOGICAL NAME TO EQUIVALENCE
01A3 293      :
01A3 294      : Parse the common qualifiers and the logical name string.
01A3 295      :
01A3 296      BSBW      COMMON_QUAL                        ;PROCESS COMMON QUALIFIERS
01A3 297      CLRQ      -(R9)                            ;ALLOCATE SPACE FOR EQUIV NAME
01A3 298      MOVQ      LOGNAM(R8),R1                    ;GET EQUIV NAME DESCR
01A3 299      BSBW      DCL$COMPRESS                      ;COMPRESS THE STRING
01A3 300      MOVQ      R1,EQUAM(R8)                    ;SAVE EQUIV NAME
01B3 301      :
01B3 302      :
01B3 303      : Init the item list. Insert the default translation attributes.
01B3 304      :
01B3 305      MOVAB     -64*6+4-4(SP),CP                ;ALLOCATE ROOM FOR A 128 ITEM LIST
01B3 306      MOVL      SP,R7                            ;SAVE THE ADDRESS OF THE LIST
01B3 307      :
01B3 308      MOVL      #LNMS_ATTRIBUTES@16+4,(R7)+     ;SET THE ITEM TYPE
01B3 309      MOVAL     TRAN_ATTR(R8),(R7)+             ;SET THE DEFAULT ATTRIBUTES ADDR
01B3 310      CLRL      (R7)+                            ;ZERO THE RETURN LENGTH ADDR
01B3 311      MOVL      #1,R6                            ;MARK DEFAULT ATTRIBUTES SET
01CA 312      :
01CA 313      :
01CA 314      : Loop getting equivalence strings and their attributes.
01CA 315      : Build the item list.
01CA 316      :
01CA 317      25$:   BSBW      GET_TRAN_ATTR              ;CHECK FOR NEW TRAN ATTRIBUTES
01CA 318      BLBC      R0,30$                          ;BRANCH IF NO LOCAL QUALIFIER
01CA 319      MOVL      #LNMS_ATTRIBUTES@16+4,(R7)+     ;SET THE ITEM TYPE
01CA 320      MOVL      R3,-(R9)                        ;SAVE THE ATTRIBUTES
01CA 321      MOVL      R9,(R7)+                        ;SET THE ATTRIBUTES ADDR
01CA 322      CLRL      (R7)+                            ;ZERO THE RETURN LENGTH ADDR
01CA 323      CLRL      R6                              ;MARK NEW ATTRIBUTES SET
01CA 324      BRB       40$                              ;PROCESS THE PARAMETER
01CA 325      30$:   BLBS      R6,40$                  ;SKIP IF DEFAULTS IN EFFECT
01CA 326      MOVL      #LNMS_ATTRIBUTES@16+4,(R7)+     ;SET THE ITEM TYPE
01CA 327      MOVAL     TRAN_ATTR(R8),(R7)+             ;SET THE DEFAULT ATTRIBUTES ADDR

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```

      56      87      D4      01F0      328          CLRL      (R7)+          ;ZERO THE RETURN LENGTH ADDR
      01      D0      01F2      329          MOVL      #1,R6          ;MARK NEW ATTRIBUTES SET
      01F5      330
87      20      A8      7D      01F5      331      40$:      MOVQ      EQUAM(R8),(R7)+          ;SAVE THE EQUIV NAME DESCR
FA      A7      02      B0      01F9      332          MOVW      #LNMS_STRING,-6(R7)          ;SET THE ITEM TYPE
      87      D4      01FD      333          CLRL      (R7)+          ;ZERO THE RETURN LENGTH ADDR
      0C      C3      01FF      334          SUBL3     #PTR_K_LENGTH,-          ;GET ADDRESS OF TOKEN DESCRIPTOR
50      BA      AA      0201      335          WRK [RSLNXT(R10),R0          ;
02      06      A0      91      0204      336          CMPB     PTR_B_PARMCNT(R0),#2          ;
      09      13      0208      337          BEQL     43$          ;HAVE WE FOUND THE LOGICAL NAME?
      FDF3'      30      020A      338          BSBW     DCL$COMPRESS          ;YES, THEN TERMINATE ITEM LIST
20      A8      51      7D      020D      339          MOVQ     R1,EQUAM(R8)          ;COMPRESS THE STRING
      B7      11      0211      340          BRB     25$          ;STORE THE LATEST STRING DESCR
      0213      341          ;CHECK FOR NEW ATTRIBUTES
      87      D4      0213      342      43$:      CLRL      (R7)+          ;TERMINATE THE LIST
      0215      343
      0215      344          ;
      0215      345          ; Process logical name string.
      0215      346          ;
      FDE8'      30      0215      347          BSBW     DCL$COMPSTRING          ;REMOVE QUOTATION MARKS
FF      A241      3A      91      0218      348          CMPB     #A/:/,-1(R2)[R1]          ;LOGICAL NAME END WITH COLON?
      02      12      021D      349          BNEQ     45$          ;IF NEQ NO
      51      D7      021F      350          DECL     R1          ;REDUCE LENGTH OF LOGICAL NAME
18      A8      51      7D      0221      351      45$:      MOVQ     R1,LOGNAM(R8)          ;SAVE LOGICAL NAME DESCRIPTOR
      031C      30      0225      352          BSBW     GET_TRAN_ATTR          ;CHECK FOR NEW TRAN ATTRIBUTES
      03      50      E9      0228      353          BLBC     R0,47$          ;BRANCH IF NO LOCAL QUALIFIER
68      53      D0      022B      354          MOVL     R3,TRAN_ATTR(R8)          ;SAVE THE ATTRIBUTES
      007C      31      022E      355      47$:      BRW     COMMON_CRELNM          ;CREATE THE LOGICAL NAME

```

```

0231 357 .SBTTL DEFINE LOGICAL NAME EQUIVALENCE
0231 358 :+
0231 359 : DCL$DEFINE - DEFINE LOGICAL NAME EQUIVALENCE
0231 360 :
0231 361 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE DEFINE
0231 362 : COMMAND.
0231 363 :
0231 364 : INPUTS:
0231 365 :
0231 366 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0231 367 : R9 = ADDRESS OF SCRATCH STACK.
0231 368 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
0231 369 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
0231 370 :
0231 371 : OUTPUTS:
0231 372 :
0231 373 : THE SPECIFIED LOGICAL NAME IS ASSIGNED TO THE SPECIFIED EQUIVALENCE
0231 374 : STRING. IF A PREVIOUS LOGICAL ASSIGNMENT IS SUPERSEDED, THEN A
0231 375 : MESSAGE TO THAT EFFECT IS WRITTEN TO THE OUTPUT STREAM.
0231 376 : -
0231 377 :
0231 378 DCL$DEFINE:: ;DEFINE LOGICAL NAME EQUIVALENCE
0231 379 :
0231 380 : Parse the common qualifiers and the logical name string.
0231 381 :
0231 382 : BSBW COMMON_QUAL ;PROCESS COMMON QUALIFIERS
0231 383 : CLRQ -(R9) ;ALLOCATE SPACE FOR EQUIVALENCE NAME
0231 384 : MOVQ LOGNAM(R8),R1 ;GET LOGICAL NAME DESCR
0231 385 : BSBW DCL$COMPSTRING ;REMOVE QUOTES FROM LOGICAL NAME
0231 386 : MOVQ R1,LOGNAM(R8) ;SAVE LOGICAL NAME
0231 387 :
0231 388 :
0231 389 : Init the item list. Insert the default translation attributes.
0231 390 :
0231 391 : MOVAB -64*6*4-4(SP),SP ;ALLOCATE ROOM FOR A 128 ITEM LIST
0231 392 : MOVL SP,R7 ;SAVE THE ADDRESS OF THE LIST
0231 393 :
0231 394 : MOVL #LNMS_ATTRIBUTES@16+4,(R7)+ ;SET THE ITEM TYPE
0231 395 : MOVAL TRAN_ATTR(R8),(R7)+ ;SET THE DEFAULT ATTRIBUTES ADDR
0231 396 : CLRL (R7)+ ;ZERO THE RETURN LENGTH ADDR
0231 397 :
0231 398 : BSBW GET_TRAN_ATTR ;CHECK FOR NEW TRAN ATTRIBUTES
0231 399 : BLBC R0,23$ ;BRANCH IF NO LOCAL QUALIFIER
0231 400 : MOVL R3,TRAN_ATTR(R8) ;SAVE THE ATTRIBUTES
0231 401 23$: BSBW DCL$COMPRESS ;COMPRESS THE STRING
0231 402 : MOVQ R1,EQUAM(R8) ;LOAD THE PIPELINE
0231 403 : MOVL #1,R6 ;MARK DEFAULT ATTRIBUTES SET
0231 404 :
0231 405 :
0231 406 : Loop getting equivalence strings and their attributes.
0231 407 : Build the item list.
0231 408 :
0231 409 25$: BSBW GET_TRAN_ATTR ;CHECK FOR NEW TRAN ATTRIBUTES
0231 410 : BLBC R0,30$ ;BRANCH IF NO LOCAL QUALIFIER
0231 411 : MOVL #LNMS_ATTRIBUTES@16+4,(R7)+ ;SET THE ITEM TYPE
0231 412 : MOVL R3,-(R9) ;SAVE THE ATTRIBUTES
0231 413 : MOVL R9,(R7)+ ;SET THE ATTRIBUTES ADDR

```

0193 30
79 7C
51 18 AB 7D
FDC3' 30
18 AB 51 7D

SE F9FC CE 9E
57 5E D0
87 00030004 8F D0
87 68 DE
87 D4
02EC 30
03 50 E9
68 53 D0
FD9F' 30
20 AB 51 7D
56 01 D0

02D9 30
13 50 E9
87 00030004 8F D0
79 53 D0
87 59 D0

- LOGICAL NAME COMMANDS
DEFINE LOGICAL NAME EQUIVALENCE

		87	D4	027B	414	CLRL	(R7)+	:ZERO THE RETURN LENGTH ADDR	
		56	D4	027D	415	CLRL	R6	:MARK NEW ATTRIBUTES SET	
		12	11	027F	416	BRB	40\$:PROCESS THE PARAMETER	
87	00030004	OF 56	E8	0281	417	30\$:	BLBS	R6,40\$:SKIP IF DEFAULTS IN EFFECT
		87	D0	0284	418	MOVL	#LNMS_ATTRIBUTES@16+4,(R7)+	:SET THE ITEM TYPE	
		87	DE	0288	419	MOVAL	TRAN_ATTR(R8),(R7)+	:SET THE DEFAULT ATTRIBUTES ADDR	
		56	D4	028E	420	CLRL	(R7)+	:ZERO THE RETURN LENGTH ADDR	
			D0	0290	421	MOVL	#1,R6	:MARK NEW ATTRIBUTES SET	
				0293	422				
87	20	A8	7D	0293	423	40\$:	MOVQ	EQUAM(R8),(R7)+	:SAVE THE EQUIV NAME DESCR
FA	A7	02	B0	0297	424	MOVW	#LNMS_STRING,-6(R7)	:SET THE ITEM TYPE	
		87	D4	029E	425	CLRL	(R7)+	:ZERO THE RETURN LENGTH ADDR	
55	04	91	029D	426	CMPB	#PTR_K_ENDLINE,R5	:EOL?	:YES, THEN TERMINATE ITEM LIST	
		09	13	02A0	427	BEQL	43\$:COMPRESS THE STRING	
	FD5B'	30	02A2	428	BSBW	DCL\$COMPRESS		:STORE THE LATEST STRING DESCR	
20	A8	51	7D	02A5	429	MOVQ	R1,EQUAM(R8)	:CHECK FOR NEW ATTRIBUTES	
		BD	11	02A9	430	BRB	25\$		
				02AB	431				
		87	D4	02AB	432	43\$:	CLRL	(R7)+	:TERMINATE THE LIST
				02AD	433				

```

02AD 435 :
02AD 436 : Check for SYS$OUTPUT. Do special processing if appropriate.
02AD 437 :
02AD 438 COMMON_CRELNM:
57 1C C2 02AD 439 SUBL #6*4+4,R7 ;WAS MORE THAN ONE VALUE SUPPLIED
5E 57 D1 02B0 440 CMPL R7,SP ;
05 12 02B3 441 BNEQ 45$ ;YES, THEN BRANCH
00D9 30 02B5 442 BSBW TESTOUT ;IS LOGICAL NAME SYS$OUTPUT?
46 13 02B8 443 BEQL 80$ ;YES, THEN BRANCH
02BA 444
02BA 445 :
02BA 446 : Create the requested logical names.
02BA 447 :
00 08 A8 01 E1 02BA 448 45$: BBC #ATTR V,QUAL(R8),47$ ;BRANCH IF QUALIFIER NOT SEEN
02BF 449 BICL #LN$M_CRELOG,NAME_ATTR(R8) ;DISABLE CRELOG ATTRIBUTE
57 5E D0 02BF 450 47$: MOVL SP,R7 ;GET THE ITEM LIST ADDRESS
02C2 451 $CRELNM_S ATTR=NAME ATTR(R8),- ;CREATE THE REQUESTED NAME
02C2 452 TABNAM=TABNAM(R8),- ;
02C2 453 LOGNAM=LOGNAM(R8),- ;
02C2 454 ACMODE=ACMODE(R8),- ;
02C2 455 ITMLST=(R7) ;
02D7 456 :
02D7 457 :
02D7 458 : Output informational message if appropriate.
02D7 459 :
50 0631 8F B1 02D7 460 CMPW #SS$_SUPERSEDE,R0 ;PREVIOUS ASSIGNMENT SUPERSEDED?
1C 12 02DC 461 BNEQ 60$ ;IF NEQ NO
10 08 A8 00 E1 02DE 462 BBC #LOG V,QUAL(R8),50$ ;BRANCH IF /NOLOG
18 A8 9F 02E3 463 PUSHAB LOGNAM(R8) ;SET LOGICAL NAME ADDRESS
51 01 D0 02E6 464 MOVL #1,R1 ;SET FAO COUNT
50 0003DDEB 8F D0 02E9 465 MOVL #CLIS_SUPERSEDE,R0 ;SET STATUS
FDD' 30 02F0 466 BSBW DCL$FORMMSG ;OUTPUT MESSAGE
02F3 467
02F3 468 50$: STATUS NORMAL ;SET NORMAL COMPLETION
5E 0604 CE 9E C2FA 469 60$: MOVAB 64*6*4+4(SP),SP ;RESTORE THE STACK
05 02FF 470 RSB ;
0300 471 :
0300 472 :
0300 473 : Update SYS$OUTPUT.
0300 474 :
51 20 A8 7D 0300 475 80$: MOVQ EQUAM(R8),R1 ;GET DESCRIPTOR OF EQUIVALENCE NAME
F9' 30 0304 476 BSBW DCL$OPEN_OUTPUT ;OPEN SPECIFIED OUTPUT FILE
FO 50 E9 0307 477 BLBC R0,60$ ;LEAVE EVERYTHING ALONE IF ERROR
58 00BC CB D0 030A 478 MOVL PRC_L_IDFLNK(R11),R8 ;POINT TO THE SYS$OUTPUT INFORMATION
FCEE' 30 030F 479 BSBW DCL$CREATE_OUTPUT ;CREATE THE SYS$OUTPUT LOGICAL NAME
DF 11 0312 480 BRB 50$ ;

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0314 482 .SBTTL DEALLOCATE DEVICE
0314 483 :+
0314 484 : DCL$DEALLOCAT - DEALLOCATE DEVICE
0314 485 :
0314 486 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE DEALLOCATE
0314 487 : DCLS COMMAND.
0314 488 :
0314 489 : INPUTS:
0314 490 :
0314 491 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0314 492 : R9 = ADDRESS OF SCRATCH STACK.
0314 493 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
0314 494 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
0314 495 :
0314 496 : OUTPUTS:
0314 497 :
0314 498 : THE SPECIFIED DEVICE IS DEALLOCATED OR ALL DEVICES ARE DEALLOCATED.
0314 499 :-
0314 500
0314 501 DCL$DEALLOCAT::
0314 502 BSBW DCL$GETDVAL ;DEALLOCATE DEVICE
55 FCE9 30 0314 503 CMPB #PTR_K_PARAMETR,R5 ;GET TOKEN DESCRIPTOR
03 91 0317 504 BEQL 10$ ;ITEM TYPE PARAMETER?
04 13 031A 505 CLRL R9 ;YES, PROCESS IT
59 D4 031C 506 BRB 90$ ;NO, ASSUME ,ALL
OF 11 031E 507 10$: BSBW DCL$COMPSTRING ;DEALLOCATE THEM ALL
79 FCDD 30 0320 508 MOVQ R1,-(R9) ;REMOVE EXTERNAL QUOTATION MARKS
FF A241 3A 91 0326 509 CMPB #^A/:/,-1(R2)[R1] ;SAVE LOGICAL NAME
02 12 032B 510 BNEQ 90$ ;STRING END WITH A COLON
69 D7 032D 511 DECL (R9) ;BR IF NO
032F 512 90$: $DALLOC_S (R9) ;REMOVE COLON FROM STRING
05 033A 513 RSB ;DEALLOCATE DEVICE
;
```



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033B 515      .SBTTL  DEASSIGN LOGICAL NAME EQUIVALENCE
033B 516      :+
033B 517      : DCL$DEASSIGN - DEASSIGN LOGICAL NAME EQUIVALENCE
033B 518      :
033B 519      : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE DEASSIGN DCLS
033B 520      : COMMAND.
033B 521      :
033B 522      : INPUTS:
033B 523      :
033B 524      :     R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
033B 525      :     R9 = ADDRESS OF SCRATCH STACK.
033B 526      :     R10 = BASE ADDRESS OF COMMAND WORK AREA.
033B 527      :     R11 = BASE ADDRESS OF PROCESS WORK AREA.
033B 528      :
033B 529      : OUTPUTS:
033B 530      :
033B 531      :     THE SPECIFIED LOGICAL NAME EQUIVALENCE OR ALL LOGICAL NAME EQUIVALENCES
033B 532      :     ARE DEASSIGNED.
033B 533      :-
033B 534
033B 535 DCL$DEASSIGN::
033B 536      BSBW  COMMON_QUAL      ;DEASSIGN LOGICAL NAME EQUIVALENCE
033E 537      CLRL  R7              ;PROCESS COMMON QUALIFIERS
0340 538      BBC   #DEF_V,QUAL(R8),3$ ;ASSUME DOING /ALL
0345 539      BBS   #LOG_V,QUAL(R8),5$ ;SKIP IF DEFAULTED
034A 540 3$:   MOVQ  LOGNAM(R8),R1     ;BR IF DOING /ALL
034E 541      BSBW  DCL$COMPSTRING  ;GET LOGICAL NAME
0351 542      MOVQ  R1,LOGNAM(R8)    ;REMOVE EXTERNAL QUOTATION MARKS
0355 543      MOVAQ LOGNAM(R8),R7    ;SAVE LOGICAL NAME
0359 544      CMPB  #^A/:/, -1(R2)[R1] ;COPY THE DESCRIPTOR ADDRESS
035E 545      BNEQ  5$              ;STRING END WITH A COLON
0360 546      DECL  LOGNAM(R8)      ;BR IF NO
0363 547 5$:   BSBB  TESTOUT        ;REMOVE COLON FROM STRING
0365 548      BEQL  10$            ;IS LOGICAL NAME SYSS$OUTPUT?
0367 549      $DELLNM,S TABNAM=TABNAM(R8),- ;YES, THEN SKIP
0367 550      LOGNAM=(R7),-        ;DEASSIGN LOGICAL NAME EQUIVALENCE
0367 551      ACMODE=ACMODE(R8)    ;
0376 552      TSTL  R7              ;DEASSIGN/ALL?
0378 553      BEQL  20$            ;YES, THEN RECREATE SYSS$OUTPUT
037A 554      RSB
037B 555
037B 556 10$:  MOVAB  PRC_W_OUTIFI(R11),R2 ;GET ADDRESS OF SYSS$OUTPUT INFORMATION
0380 557      MOVL  PRC_L_IDFLNK(R11),R8 ;GET ADDRESS OF CURRENT IDF BLOCK
0385 558      BSBW  DCL$RESTORE_OUTPUT ;RESTORE PROCESS PERMANENT SYSS$OUTPUT
0388 559 20$:  MOVL  PRC_L_IDFLNK(R11),R8 ;GET ADDRESS OF CURRENT IDF BLOCK
038D 560      BSBW  DCL$CREATE_OUTPUT  ;CREATE SYSS$OUTPUT LOGICAL NAME
0390 561      RSB

```

```

0089 30
57 D4
05 08 A8 02 E1
19 08 A8 00 E0
51 18 A8 7D
FCAF' 30
18 A8 51 7D
57 18 A8 7E
FF A241 3A 91
03 12
18 A8 D7
2C 10
14 13
57 D5
OE 13
05
9E
D0
30
D0
30
05

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0391 563          .SBTTL TEST IF LOGICAL NAME IS SYSS$OUTPUT
0391 564          :
0391 565          : SUBROUTINE TO TEST IF LOGICAL NAME IS SYSS$OUTPUT
0391 566          :
0391 567          : ON OUTPUT, 'Z'= 1 IF SYSS$OUTPUT IS SPECIFIED
0391 568          :
0391 569          : CLOBBERS R0-R3
0391 570          :
0391 571          TESTOUT:
18 A8 D5 0391 572          TSTL LOGNAM(R8)          :WAS A LOGICAL NAME SPECIFIED?
29 08 A8 01 F0 0394 573          BEQL 20$          :RETURN IF NOT
OC A8 03 D1 0396 574          BBS #ATTR_V,GUAL(R8),20$ :BRANCH IF ATTRIBUTES SPECIFIED
10 A8 FC66 CF 91 039B 575          CMPL #PSL$C_USER,ACMODE(R8) :IS LOGICAL NAME USER MODE?
14 B8 10 A8 23 13 039F 576          BEQL 20$          :YES, THEN RETURN
FC5B CF 12 03A1 577          CMPB LNMS$PROCESS,TABNAM(R8) :COMPARE LENGTH OF TABLE NAME
18 A8 FC49 CF 29 03A7 578          BNEQ 20$          :RETURN IF NOT EQUAL
FC3E CF 05 03A9 579          CMPC TABNAM(R8),@TABNAM+4(R8) :COMPARE ACTUAL STRING
18 A8 FC49 CF 91 03AE 580          BNEQ 20$          :RETURN IF NOT EQUAL
1C B8 18 A8 09 12 03B1 581          CMPB OUTPUTNAM,LOGNAM(R8) :COMPARE LENGTH OF OUTPUT
FC3E CF 29 03B3 582          BNEQ 20$          :RETURN IF NOT EQUAL
01 D5 03B9 583          CMPC LOGNAM(R8),@LOGNAM+4(R8) :COMPARE ACTUAL STRING
05 03C0 584          RSB :
05 03C3 585          :
05 03C4 586 10$: RSB :
05 03C4 587          :
05 03C6 588 20$: TSTL #1 :SET FAILURE STATUS
05 03C6 589          RSB :

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03C7 591      .SBTTL PROCESS COMMON COMMAND QUALIFIERS
03C7 592      :
03C7 593      : SUBROUTINE TO PROCESS COMMON COMMAND QUALIFIERS
03C7 594      :
03C7 595      : ON INPUT, R9 = ADDRESS OF SCRATCH STACK
03C7 596      :
03C7 597      : ON OUTPUT, SCRATCH STACK LOOKS LIKE
03C7 598      :
03C7 599      :      <-- R9 initially
03C7 600      :      +-----+
03C7 601      :      | Logical name | LOGNAM(R8)
03C7 602      :      | descriptor  |
03C7 603      :      +-----+
03C7 604      :      | Table name  | TABNAM(R8)
03C7 605      :      | descriptor  |
03C7 606      :      +-----+
03C7 607      :      | Access mode | ACMODE(R8)
03C7 608      :      +-----+
03C7 609      :      | Qual flags  | QUAL(R8)
03C7 610      :      +-----+
03C7 611      :      | Def name attr | NAME_ATTR(R8)
03C7 612      :      +-----+
03C7 613      :      | Def tran attr | TRAN_ATTR(R8) <-- R8,R9 finally
03C7 614      :      +-----+
03C7 615      :
03C7 616      :
03C7 617      COMMON_QUAL:
55  FC3E 79 7C 03C7 618      CLRQ      -(R9)      ;ALLOCATE SPACE FOR LOG NAME DESCR
54  85 9E 03C9 619      MOVAB     LNMSPROCESS,R5 ;ASSUME PROCESS LOGICAL NAME TABLE
79  54 7D 03CE 620      MOVZBL   (R5)+,R4      :
79  02 D0 03D1 621      MOVQ     R4,-(R9)      ;SAVE THE DESCRIPTOR
79  01 D0 03D4 622      MOVL     #PSL$C_SUPER,-(R9) ;AND SUPERVISOR MODE
79  01 D0 03D7 623      MOVL     #LOG M,-(R9) ;ASSUME /LOG DEFAULTED
79  01 D0 03DA 624      MOVL     #LNMSM_CRELOG,-(R9) ;SET DEFAULT NAME ATTRIBUTES
58  79 D4 03DA 625      CLRL     -(R9) ;SET DEFAULT NAME ATTRIBUTES
58  79 D4 03DC 626      CLRL     -(R9) ;SET DEFAULT TRAN ATTRIBUTES
58  59 D0 03DE 627      MOVL     R9,R8 ;COPY THE BASE OF THE DATA STRUCTURE
03E1 628      :
55  FC1C' 30 03E1 629 10$: BSBW     DCL$GETDVAL ;GET NEXT DESCRIPTOR VALUE
03  91 03E4 630 20$: CMPB     #PTR_K_PARAMETR,R5 ;ITEM TYPE PARAMETER OR EOL?
08  1A 03E7 631      BGTRU    30$ ;NO, THEN PROCESS QUALIFIER
03  13 03E9 632      BEQL     25$ ;PROCESS PARAMETER
0155 31 03EB 633      BRW     210$ ;RETURN WITH NULL PARAMETER
014E 31 03EE 634 25$: BRW     200$ ;PROCESS PARAMETER
FC0C' 30 03F1 635 30$: BSBW     DCL$GETNVAL ;GET QUALIFIER NUMBER
00000000'8F 51 D1 03F4 636      CMPL     R1,#CLISK_DEFI_USER ;QUALIFIER MATCH?
66  13 03FB 637      BEQL     100$ ;YES, THEN BRANCH
00000000'8F 51 D1 03FD 638      CMPL     R1,#CLISK_DEFI_SUPE ;QUALIFIER MATCH?
64  13 0404 639      BEQL     110$ ;YES, THEN BRANCH
00000000'8F 51 D1 0406 640      CMPL     R1,#CLISK_DEFI_EXEC ;QUALIFIER MATCH?
61  13 040D 641      BEQL     120$ ;YES, THEN BRANCH
00000000'8F 51 D1 040F 642      CMPL     R1,#CLISK_DEFI_PROC ;QUALIFIER MATCH?
5E  13 0416 643      BEQL     130$ ;YES, THEN BRANCH
00000000'8F 51 D1 0418 644      CMPL     r1,#CLISK_DEFI_JOB ;QUALIFIER MATCH?
63  13 041F 645      BEQL     135$ ;YES, THEN BRANCH
00000000'8F 51 D1 0421 646      CMPL     R1,#CLISK_DEFI_GROU ;QUALIFIER MATCH?
71  13 0428 647      BEQL     140$ ;YES, THEN BRANCH

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00000000'8F 51 D1 042A 648 Cmpl R1,#CLISK_DEFI_SYST ;QUALIFIER MATCH?
              7F 13 0431 649 BEQL 150$ ;YES, THEN BRANCH
00000000'8F 51 D1 0433 650 Cmpl R1,#CLISK_DEFI_TABL ;QUALIFIER MATCH?
              03 12 043A 651 BNEQ 60$ ;NO, CHECK NEXT
              008A 31 043C 652 BRW 160$ ;YES, THEN BRANCH
00000000'8F 51 D1 043F 653 60$: Cmpl R1,#CLISK_DEFI_LOG ;QUALIFIER MATCH? (ALSO DEASSIGN/ALL
              03 12 0446 654 BNEQ 70$ ;NO, CHECK NEXT
              0096 31 0448 655 BRW 170$ ;YES, THEN BRANCH
00000000'8F 51 D1 044B 656 70$: Cmpl R1,#CLISK_DEFI_NAME ;QUALIFIER MATCH?
              03 12 0452 657 BNEQ 80$ ;NO, CHECK NEXT
              0C9B 31 0454 658 BRW 180$ ;YES, THEN BRANCH
00000000'8F 51 D1 0457 659 80$: Cmpl R1,#CLISK_DEFI_TRAN ;QUALIFIER MATCH?
              81 12 045E 660 BNEQ 10$ ;NO, IGNORE IT
              00B3 31 0460 661 BRW 190$ ;YES, THEN BRANCH
              0463 662
OC A8 03 D0 0463 663 100$: MOVL #PSL$C_USER,ACMODE(R8) ;SET USER MODE
              0082 31 0467 664 BRW 171$ ;GET NEXT TOKEN
OC A8 02 D0 046A 665 110$: MOVL #PSL$C_SUPER,ACMODE(R8) ;SET SUPER MODE
              7C 11 046E 666 BRB 171$ ;GET NEXT TOKEN
OC A8 01 D0 0470 667 120$: MOVL #PSL$C_EXEC,ACMODE(R8) ;SET EXEC MODE
              76 11 0474 668 BRB 171$ ;GET NEXT TOKEN
              0476 669
55 FB91 CF 9E 0476 670 130$: MOVAB LNMS$PROCESS,R5 ;USE PROCESS LOGICAL NAME TABLE
              54 85 9A 047B 671 MOVZBL (R5)+,R4 ;
              10 A8 54 7D 047E 672 MOVQ R4,TABNAM(R8) ;SAVE THE DESCRIPTOR
              68 11 0482 673 BRB 171$ ;GET NEXT TOKEN
              0484 674
55 FB83 CF 9E 0484 675 135$: MOVAB LNMS$PROCESS,R5 ;ASSUME /NOJOB
              05 53 00 E0 0489 676 BBS #PTR_V_NEGATE-PTR_V_FLAGS,R3,137$ ;BR IF /NOJOB
55 FB86 CF 9E 048D 677 MOVAB LNMS$JOB,R5 ;USE JOB LOGICAL NAME TABLE
              54 85 9A 0492 678 137$: MOVZBL (R5)+,R4 ;
              10 A8 54 7D 0495 679 MOVQ R4,TABNAM(R8) ;SAVE THE DESCRIPTOR
              51 11 0499 680 BRB 171$ ;GET NEXT TOKEN
              049B 681
55 FB6C CF 9E 049B 682 140$: MOVAB LNMS$PROCESS,R5 ;ASSUME /NOGROUP
              05 53 00 E0 04A0 683 BBS #PTR_V_NEGATE-PTR_V_FLAGS,R3,147$ ;BR IF /NOGROUP
55 FB77 CF 9E 04A4 684 MOVAB LNMS$GROUP,R5 ;USE GROUP LOGICAL NAME TABLE
              54 85 9A 04A9 685 147$: MOVZBL (R5)+,R4 ;
              10 A8 54 7D 04AC 686 MOVQ R4,TABNAM(R8) ;SAVE THE DESCRIPTOR
              3A 11 04B0 687 BRB 171$ ;GET NEXT TOKEN
              04B2 688
55 FB55 CF 9E 04B2 689 150$: MOVAB LNMS$PROCESS,R5 ;ASSUME /NOSYSTEM
              05 53 00 E0 04B7 690 BBS #PTR_V_NEGATE-PTR_V_FLAGS,R3,157$ ;BR IF /NOSYSTEM
55 FB6A CF 9E 04BB 691 MOVAB LNMS$SYSTEM,R5 ;USE SYSTEM LOGICAL NAME TABLE
              54 85 9A 04C0 692 157$: MOVZBL (R5)+,R4 ;
              10 A8 54 7D 04C3 693 MOVQ R4,TABNAM(R8) ;SAVE THE DESCRIPTOR
              23 11 04C7 694 BRB 171$ ;GET NEXT TOKEN
              04C9 695
55 FB3E CF 9E 04C9 696 160$: MOVAB LNMS$PROCESS,R5 ;ASSUME PROCESS LOGICAL NAME TABLE
              54 85 9A 04CE 697 MOVZBL (R5)+,R4 ;
              10 A8 54 7D 04D1 698 MOVQ R4,TABNAM(R8) ;SAVE THE DESCRIPTOR
              14 53 E8 04D5 699 BLBS R3,171$ ;BRANCH IF NEGATED
              FB25' 30 04DB 700 BSBW DCL$GETDVAL ;GET THE TABLE NAME
              10 A8 51 7D 04DB 701 MOVQ R1,TABNAM(R8) ;SAVE IT AWAY
              0B 11 04DF 702 BRB 171$ ;GET NEXT TOKEN
              04E1 703
OB A8 05 C8 04E1 704 170$: BISL #LOG_M!DEF_M,QUAL(R8) ;ASSUME /LOG OR /ALL

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	04 53	E9	04E5	705		BLBC	R3,171\$:BRANCH IF SO
08	A8	01	CA	04E8	706	BICL	#LOG_M,QUAL(R8)		:SET /NOLOG OR /NOALL
		FEF2	31	04EC	707	BRW	10\$:GET NEXT TOKEN
		FEF2	31	04EF	708	BRW	20\$:PROCESS THE TOKEN
				04F2	709				
08	A8	02	C8	04F2	710	BISL	#ATTR_M,QUAL(R8)	180\$:	:MARK /NAME ATTRIBUTES SEEN
		04 A8	D4	04F6	711	CLRL	NAME_ATTR(R8)		:ZERO INITIAL ATTRIBUTES
		FO 53	E8	04F9	712	BLBS	R3,171\$:BRANCH IF NEGATED
		FB01'	30	04FC	713	BSBW	DCL\$GETDVAL	182\$:	:GET ITS VALUE
		02	55	04FF	714	CMPB	R5,#PTR_K_QUALVALU		:SKIP IF NOT A QUALIFIER VALUE
		EB	12	0502	715	BNEQ	172\$:
43	8F	62	91	0504	716	CMPB	(R2),#^A/C/		:CONFINE KEYWORD?
		06	12	0508	717	BNEQ	184\$:NO, THEN BRANCH
04	A8	02	C8	050A	718	BISL	#LNMSM_CONFINE,NAME_ATTR(R8)		:SET THE ATTRIBUTE
		EC	11	050E	719	BRB	182\$:GET NEXT VALUE
04	A8	01	C8	0510	720	BISL	#LNMSM_NO_ALIAS,NAME_ATTR(R8)	184\$:	:SET THE ATTRIBUTE
		E6	11	0514	721	BRB	182\$:GET NEXT VALUE
				0516	722				
08	A8	02	C8	0516	723	BISL	#ATTR_M,QUAL(R8)	190\$:	:MARK /TRANSLATION ATTRIBUTES SEEN
		68	D4	051A	724	CLRL	TRAN_ATTR(R8)		:ZERO INITIAL ATTRIBUTES
		CD 53	E8	051C	725	BLBS	R3,171\$:BRANCH IF NEGATED
		FADE'	30	051F	726	BSBW	DCL\$GETDVAL	192\$:	:GET ITS VALUE
		02	55	0522	727	CMPB	R5,#PTR_K_QUALVALU		:SKIP IF NOT A QUALIFIER VALUE
		C8	12	0525	728	BNEQ	172\$:
43	8F	62	91	0527	729	CMPB	(R2),#^A/C/		:CONCEALED KEYWORD?
		09	12	0528	730	BNEQ	194\$:NO, THEN BRANCH
68	00000100	8F	C8	052D	731	BISL	#LNMSM_CONCEALED,TRAN_ATTR(R8)		:SET THE ATTRIBUTE
		E9	11	0534	732	BRB	192\$:GET NEXT VALUE
68	00000200	8F	C8	0536	733	BISL	#LNMSM_TERMINAL,TRAN_ATTR(R8)	194\$:	:SET THE ATTRIBUTE
		E0	11	053D	734	BRB	192\$:GET NEXT VALUE
				053F	735				
18	A8	51	7D	053F	736	MOVQ	R1,LOGNAM(R8)	200\$:	:GET FIRST PARAMETER DESCRIPTOR
			05	0543	737	RSB		210\$:	:
				0544	738				:

```

0544 740 .SBTTL GET TRANSLATION ATTRIBUTES
0544 741 :
0544 742 : SUBROUTINE TO PROCESS TRANSLATION ATTRIBUTES
0544 743 :
0544 744 : R0 = QUALIFIER SEEN FLAG
0544 745 : R1/R2 = DESCR OF NEXT PARAMETER
0544 746 : R3 = TRANSLATION ATTRIBUTES
0544 747 : R5 = TYPE OF LAST TOKEN SEEN
0544 748 :
0544 749 GET_TRAN ATTR:
0544 750 CLRQ -(SP)
55 FAB7' 30 0546 751 10$: BSBW DCL$GETDVAL
04 AE 03 91 0549 752 20$: CMPB #PTR_K_PARAMETR,R5
2D 15 054C 753 BLEQ 90$
04 AE 01 D0 054E 754 MOVL #1,4(SP)
6E 6E D4 0552 755 CLRL (SP)
08 AB 02 C8 0554 756 BISL #ATTR M,QUAL(RB)
EB 53 E8 0558 757 BLBS R3,10$
02 FAA2' 30 055B 758 30$: BSBW DCL$GETDVAL
55 91 055E 759 CMPB R5,#PTR_K_QUALVALU
E6 12 0561 760 BNEQ 20$
43 8F 62 91 0563 761 CMPB (R2),#^A/C/
09 12 0567 762 BNEQ 40$
6E 00000100 8F C8 0569 763 BISL #LNMSM_CONCEALED,(SP)
E9 11 0570 764 BRB 30$
6E 00000200 8F C8 0572 765 40$: BISL #LNMSM_TERMINAL,(SP)
E0 11 0579 766 BRB 30$
53 8ED0 057B 767
50 8ED0 057E 768 90$: POPL R3
05 0581 769 POPL R0
770 RSB

```

```

:GET TRAN ATTRIBUTES
:ASSUME QUALIFIER NOT SEEN
:GET NEXT DESCRIPTOR VALUE
:ITEM TYPE PARAMETER?
:IF LEQ END OF LINE OR PARAMETER
:MARK QUALIFIER SEEN
:RESET ATTRIBUTES
:MARK /TRANSLATION_ATTRIBUTES SEEN
:BRANCH IF NEGATED
:GET ITS VALUE
:SKIP IF NOT A QUALIFIER VALUE
:
:CONCEALED KEYWORD?
:NO, THEN BRANCH
:SET THE ATTRIBUTE
:GET NEXT VALUE
:SET THE ATTRIBUTE
:GET NEXT VALUE
:
:RETURN ATTRIBUTES AND STATUS
:
:

```

```

0582 772 .SBTTL CREATE LOGICAL NAME TABLE
0582 773 :+
0582 774 : DCL$CRETABLE - CREATE LOGICAL NAME TABLE
0582 775 :
0582 776 : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE
0582 777 : CREATE/NAME_TABLE COMMAND.
0582 778 :
0582 779 : INPUTS:
0582 780 :
0582 781 : R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
0582 782 : R9 = ADDRESS OF SCRATCH STACK.
0582 783 : R10 = BASE ADDRESS OF COMMAND WORK AREA.
0582 784 : R11 = BASE ADDRESS OF PROCESS WORK AREA.
0582 785 :
0582 786 : OUTPUTS:
0582 787 :
0582 788 : THE SPECIFIED LOGICAL NAME TABLE IS CREATED.
0582 789 :-
0582 790
0582 791 DCL$CRETABLE::
0582 792 CLRL -(R9) ;CREATE A LOGICAL NAME TABLE
79 FF00 8F D4 0582 792 CLRL -(R9) ;ASSUME /LOG
0584 793 MOVZWL #DEF_PROT,-(R9) ;SET DEFAULT TABLE PROTECTION
0589 794 ;(SY:RWED,OW:RWED,GR,WO)
0589 795
0589 796 MOVL #PSL$C_SUPER,-(R9) ;ASSUME SUPERVISOR MODE ACMODE
79 01000000 8F D4 058C 797 CLRL -(R9) ;ASSUEM /NOQUOTA
51 FAAB CF 9E 058E 798 MOVL #LNMSM_CREATE_IF,-(R9) ;ASSUME /NOATTR
50 81 9A 0595 799 MOVAB LNMSPROCESS_DIRECTORY,R1 ;ASSUME /NOPARENT
79 50 7D 059A 800 MOVZBL (R1)+,R0 ;
059D 801 MOVQ R0,-(R9) ;SAVE THE DESCRIPTOR
05A0 802
05A0 803 10$: BSBW DCL$GETDVAL ;GET NEXT DESCRIPTOR VALUE
55 03 91 05A3 804 20$: CMPB #PTR_K_PARAMETR,R5 ;ITEM TYPE PARAMETER?
03 12 05A6 805 BNEQ 30$ ;NO, THEN PROCESS QUALIFIER
0124 31 05AB 806 BRW 200$ ;YES, THEN DONE
05AB 807
05AB 808 30$: BSBW DCL$GETNVAL ;GET QUALIFIER NUMBER
00000000'8F FA5D' 30 05AB 808 30$: BSBW DCL$GETNVAL ;GET QUALIFIER NUMBER
51 D1 05AE 809 CMPL R1,#CLISK_CRET_USER ;QUALIFIER MATCH?
45 13 05B5 810 BEQL 100$ ;YES, THEN BRANCH
00000000'8F 51 D1 05B7 811 CMPL R1,#CLISK_CRET_SUPE ;QUALIFIER MATCH?
42 13 05BE 812 BEQL 110$ ;YES, THEN BRANCH
00000000'8F 51 D1 05C0 813 CMPL R1,#CLISK_CRET_EXEC ;QUALIFIER MATCH?
3F 13 05C7 814 BEQL 120$ ;YES, THEN BRANCH
00000000'8F 51 D1 05C9 815 CMPL R1,#CLISK_CRET_QUOT ;QUALIFIER MATCH?
3C 13 05D0 816 BEQL 130$ ;YES, THEN BRANCH
00000000'8F 51 D1 05D2 817 CMPL R1,#CLISK_CRET_ATTR ;QUALIFIER MATCH?
4F 13 05D9 818 BEQL 140$ ;YES, THEN BRANCH
00000000'8F 51 D1 05DB 819 CMPL R1,#CLISK_CRET_PARE ;QUALIFIER MATCH?
7B 13 05E2 820 BEQL 150$ ;YES, THEN BRANCH
00000000'8F 51 D1 05E4 821 CMPL R1,#CLISK_CRET_PROT ;QUALIFIER MATCH?
03 12 05EB 822 BNEQ 40$ ;NO
0085 31 05ED 823 BRW 160$ ;YES, THEN BRANCH
00000000'8F 51 D1 05F0 824 40$: CMPL R1,#CLISK_CRET_LOG ;QUALIFIER MATCH
A7 12 05F7 825 BNEQ 10$ ;NO, GET NEXT TOKEN
00B7 31 05F9 826 BRW 175$ ;YES, THEN BRANCH
05FC 827
10 A9 03 D0 05FC 828 100$: MOVL #PSL$C_USER,16(R9) ;SET USER MODE

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10 A9 9E 11 0600 829 BRB 10$ ;GET NEXT TOKEN
      02 D0 0602 830 110$: MOVL #PSL$C_SUPER,16(R9) ;SET SUPER MODE
      98 11 0606 831 BRB 10$ ;GET NEXT TOKEN
10 A9 01 D0 0608 832 120$: MOVL #PSL$C_EXEC,16(R9) ;SET EXEC MODE
      92 11 060C 833 BRB 10$ ;GET NEXT TOKEN
      060E 834
      OC A9 D4 060E 835 130$: CLRL 12(R9) ;ASSUME /NOQUOTA
      10 53 E8 0611 836 BLBS R3,131$ ;BRANCH IF SO
      F9E9' 30 0614 837 BSBW DCL$GETDVAL ;GET QUOTA VALUE
      52 51 7D 0617 838 MOVQ R1,R2 ;COPY DESCRIPTOR
      51 01 D0 061A 839 MOVL #1,R1 ;SET DECIMAL RACIX
      F9E0' 30 061D 840 BSBW DCL$CNVNOEDIT ;CONVERT NUMBER TO BINARY
      OC A9 51 D0 0620 841 MOVL R1,12(R9) ;SAVE THE VALUE AWAY
      FF79 31 0624 842 131$: BRW 10$ ;GET NEXT TOKEN
      FF79 31 0627 843 132$: BRW 20$ ;PROCESS NEXT TOKEN
      062A 844
08 A9 01000000 8F D0 062A 845 140$: MOVL #LNMSM_CREATE_IF,8(R9) ;ASSUME /NOATTRIBUTES
      EF 53 E8 0632 846 BLBS R3,131$ ;BRANCH IF SO
      F9C8' 30 0635 847 142$: BSBW DCL$GETDVAL ;GET ATTRIBUTE KEYWORD
      02 55 91 0638 848 CMPB R5,#PTR_K_QUALVALU ;SKIP IF NOT A QUALIFIER VALUE
      EA 12 063E 849 BNEQ 132$ ;
      4E 8F 62 91 063D 850 CMPB (R2),#^A/N/ ;NO_ALIAS KEYWORD?
      06 12 0641 851 BNEQ 144$ ;NO, THEN BRANCH
      08 A9 01 C8 0643 852 BISL #LNMSM_NO_ALIAS,8(R9) ;SET THE ATTRIBUTE
      EC 11 0647 853 BRB 142$ ;GET NEXT VALUE
      43 8F 62 91 0649 854 144$: CMPB (R2),#^A/C/ ;CONFINE KEYWORD?
      06 12 064D 855 BNEQ 144$ ;NO, THEN BRANCH
      08 A9 02 C8 064F 856 BISL #M$M_CONFINE,8(R9) ;SET THE ATTRIBUTE
      E0 11 0653 857 BRB 142$ ;GET NEXT VALUE
08 A9 01000000 8F CA 0655 858 146$: BICL #LNMSM_CREATE_IF,8(R9) ;CLEAR THE ATTRIBUTE
      D6 11 065D 859 BRB 142$ ;GET NEXT VALUE
      065F 860
      51 F9E1 CF 9E 065F 861 150$: MOVAB LNMSPROCESS_DIRECTORY,R1 ;ASSUME /NOPARENT
      50 81 9A 0664 862 MOVZBL (R1)+,R0 ;
      69 50 7D 0667 863 MOVQ R0,(R9) ;SAVE THE DESCRIPTOR
      B7 53 E8 066A 864 BLBS R3,131$ ;BRANCH IF SO
      F990' 30 066D 865 BSBW DCL$GETDVAL ;GET TABLE NAME
      69 51 7D 0670 866 MOVQ R1,(R9) ;SAVE THE DESCRIPTOR
      AF 11 0673 867 BRB 131$ ;GET NEXT TOKEN
      0675 868 ;
      0675 869 ;
      0675 870 ;
      F988' 30 0675 871 160$: BSBW DCL$GETDVAL ;GET NEXT DESCRIPTOR VALUES
      55 02 91 0678 872 CMPB #PTR_K_QUALVALU,R5 ;QUALIFIER VALUE?
      AA 12 067B 873 BNEQ 132$ ;NO, ALL DONE WITH PROTECTION.
      067D 874
      FA07 CF 04 62 3A 067D 875 LOCC (R2),#4,CLASS ;LOCATE PROTECTION CLASS
      3A 13 0683 876 BEQL 180$ ;IF EQL INVALID CLASS
      0685 877
      50 D7 0685 878 DECL R0 ;CALCULATE STARTING BIT NUMBER
      58 04 C5 0687 879 MULL3 #4,R0,R8 ;
      14 A9 04 58 0F F0 068B 880 INSV #^XF,R8,#4,20(R9) ;ASSUME NO ACCESS
      54 02 91 0691 881 CMPB #PTR_K_COLON,R4 ;PROTECTION VALUE SPECIFIED?
      DF 12 0694 882 BNEQ 160$ ;NO, TRY TO GET NEXT CLASS
      0696 883
      F967' 30 0696 884 BSBW DCL$GETDVAL ;GET PROTECTION VALUE DESCRIPTOR
      57 51 D0 0699 885 MOVL R1,R7 ;SAVE LENGTH OF VALUE STRING

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F9E4 CF 04 82 3A 069C 886
                23 13 06A2 887 165$: LOCC (R2)+,#4,ACCESS ;LOCATE PROTECTION CODE
                50 58 D7 06A4 888 BEQL 185$ ;IF EQU INVALID PROTECTION CODE
00 14 A9 50 58 C0 06A6 889 DECL R0 ;CALCULATE RELATIVE BIT NUMBER
                EB 57 E5 06A9 890 ADDL R8,R0 ;CALCULATE ACTUAL BIT NUMBER
                C2 11 F5 06AE 891 BBCC R0,20(R9),170$ ;ALLOW SPECIFIED ACCESS
                06B1 892 170$: SOBGTR R7,165$ ;ANY MORE TO SCAN?
                06B3 893 BRB 160$ ;NO, TRY TO GET NEXT CLASS
                06B3 894 :
                06B3 895 : PROCESS /LOG QUALIFIER
                18 A9 94 06B3 896 :
                03 53 E9 06B6 897 175$: CLRB 24(R9) ;ASSUME /LOG
                18 A9 96 06B9 898 BLBC R3,176$ ;IT IS /LOG. FLAG OK AS IS
                FF65 31 06BC 899 INCB 24(R9) ;IT IS /NOLOG. SET FLAG
                06BF 900 176$: BRW 131$ ;GET NEXT TOKEN
                06BF 901
                05 06C6 902 180$: STATUS IVKEYW ;SET INVALID KEYWORD
                06C7 903 RSB ;EXIT
                05 06CE 904 185$: STATUS IVPROT ;SET INVALID PROTECTION CODE
                06CF 905 RSB ;EXIT
                79 51 7D 06CF 906
                06D2 907 200$: MOVQ R1,-(R9) ;SAVE THE LOGICAL NAME DESR
                06D2 908
                06D2 909 $CRELNT_S ATTR=16(R9),- ;CREATE THE TABLE
                06D2 910 QUOTA=20(R9),-
                06D2 911 TABNAM=(R9),-
                06D2 912 PARTAB=8(R9),-
                06D2 913 ACMODE=24(R9),-
                06D2 914 PROMSK=28(R9)
                06EE 915 :
                06EE 916 :
                06EE 917 : OUTPUT INFORMATION MESSAGES ABOUT THE TABLE CREATION
                06EE 918 :
                40 20 A9 E8 06EE 919 BLBS 32(R9),280$ ;SKIP IF /NOLOG
                50 01 B1 06F2 920 CMPW #SS$_NORMAL,R0 ;EXISTING TABLE NOT SUPER.?
                09 12 06F5 921 BNEQ 210$ ;NO, CHECK OTHER STATUS
50 0003DE0B 8F D0 06F7 922 MOVL #CLIS$_TABEXIST,R0 ;YES, TELL USER
                28 11 06FE 923 BRB 270$ ;
                0700 924
                50 0631 8F B1 0700 925 210$: CMPW #SS$_SUPERSEDE,R0 ;EXISTING TABLE SUPERSEDED?
                09 12 0705 926 BNEQ 220$ ;NO, CHECK OTHER STATUS
50 0003DE13 8F D0 0707 927 MOVL #CLIS$_TABSUPER,R0 ;YES, TELL USER
                18 11 070E 928 BRB 270$ ;
                0710 929
                50 06B1 8F B1 0710 930 220$: CMPW #SS$_LNMCREATED,R0 ;NEW TABLE CREATED?
                18 12 0715 931 BNEQ 280$ ;NO, CHECK FOR CREATION ERROR
50 0003DE1B 8F D0 0717 932 MOVL #CLIS$_TABNOTFND,R0 ;ASSUME /SUPERSEDE SPECIFIED
10 A9 010C0000 8F D3 071E 933 BITL #LNMSM_CREATE_IF,16(R9) ;WAS /SUPERSEDE SPECIFIED?
                OD 12 0726 934 BNEQ 285$ ;IF NOT, SKIP MESSAGE
                0728 935
                69 9F 0728 936 270$: PUSHAB (R9) ;GET TABLE NAME DESCRIPTOR
                51 01 D0 072A 937 MOVL #1,R1 ;SET FAO COUNT
                F8D0 30 072D 938 BSBW DCL$FORMMSG ;OUTPUT MESSAGE
                03 11 0730 939 BRB 285$ ;EXIT WITH STATUS NORMAL
                07 50 E9 0732 940
                0735 941 280$: BLBC R0,290$ ;BRANCH IF ERROR
                0735 942 285$: STATUS NORMAL ;RETURN SUCCESS

```

LOGICAL
V04-000

- LOGICAL NAME COMMANDS
CREATE LOGICAL NAME TABLE
05 073C 943 290\$: RSB

L 16

16-SEP-1984 00:08:00 VAX/VMS Macro V04-00
4-SEP-1984 23:41:57 [DCL.SRC]LOGICAL.MAR;1

Page 23
(12)

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073D 945      .SBTTL SHOW LOGICAL NAME EQUIVALENCES
073D 946      :+
073D 947      : DCL$SHOWTRAN - SHOW LOGICAL NAME TRANSLATION
073D 948      :
073D 949      : THIS ROUTINE IS CALLED AS AN INTERNAL COMMAND TO EXECUTE THE SHOW LOGICAL
073D 950      : NAME EQUIVALENCES DCLS COMMAND.
073D 951      :
073D 952      : INPUTS:
073D 953      :
073D 954      :     R8 = ADDRESS OF SCRATCH BUFFER DESCRIPTOR.
073D 955      :     R9 = ADDRESS OF SCRATCH STACK.
073D 956      :     R10 = BASE ADDRESS OF COMMAND WORK AREA.
073D 957      :     R11 = BASE ADDRESS OF PROCESS WORK AREA.
073D 958      :
073D 959      : OUTPUTS:
073D 960      :
073D 961      :     THE SPECIFIED LOGICAL NAME EQUIVALENCE FROM THE PROCESS
073D 962      :     LOGICAL NAME TABLE IS WRITTEN TO THE OUTPUT STREAM.
073D 963      :
073D 964      : DCL$SHOWTRAN::                                ;SHOW THE TRANSLATION FOR A NAME
073D 965      :
073D 966      : ++
073D 967      : Stack layout:
073D 968      :
073D 969      :     -----
073D 970      :     Table name
073D 971      :     descriptor
073D 972      :     -----
073D 973      :     Logical name
073D 974      :     descriptor
073D 975      :     -----
073D 976      :     Equival name
073D 977      :     descriptor
073D 978      :     -----
073D 979      :     Item list ...
073D 980      :
073D 981      :
073D 982      : --
073D 983      :
073D 984      : Parse the command string.
073D 985      :
51   FBF3 CF   9E 073D 986      MOVAB LNMSDCL LOGICAL,R1      ;SET DEFAULT LOGICAL NAME TABLE
    50  81   9A 0742 987      MOVZBL (R1)+,R0
    7E  50   7D 0745 988      MOVQ  R0,-(SP)
    F8B5' 30 0748 990 10$:   BSBW  DCL$GETDVAL      ;GET FIRST TOKEN
    55  03   91 074B 991      CMPB  #PTR_K_PARAMETER,R5      ;IS IT A PARAMETER
    06  12   12 074E 992      BNEQ  15$      ;NO, THEN PROCESS /TABLE
    F4 53  01  E0 0750 993      ASSUME PTR V_KEYWORD EQ 21
    16  11   11 0754 994      BBS   #1,R3,10$      ;IGNORE OPTION KEYWORD
    0756 995      BRB   20$      ;PROCESS THE LOGICAL NAME
    0756 996
51   F8DA CF   9E 0756 997 15$:   MOVAB LNMSDCL LOGICAL,R1      ;ASSUME /NOTABLE
    50  81   9A 075B 998      MOVZBL (R1)+,R0
    6E  50   7D 075E 999      MOVQ  R0,(SP)
    E4 53  E8 0761 1000      BLBS  R3,10$
    F899' 30 0764 1001      BSBW  DCL$GETDVAL      ;BRANCH IF SO
    ;GET TABLE NAME

```

```

6E 51 7D 0767 1002      MOVQ  R1,(SP)      ;SAVE IT
      DC 11 076A 1003      BRB    10$          ;GET NEXT TOKEN
      076C 1004
7E 51 7D 076C 1005 20$: MOVQ  R1,-(SP)      ;SAVE LOGICAL NAME DESCR
      076F 1006
      076F 1007      ;
      076F 1008      ; Create item list and perform translation.
      076F 1009      ;
      7E 7E 7E D4 076F 1010      CLRL  -(SP)          ;BUILD ITEM LIST
7E F4 AE 9E 0771 1011      MOVAB -12(SP),-(SP)      ;SET ADDR OF RETURN LENGTH
7E F896 CA 9E 0775 1012      MOVAB WRK_G_INPBUF(R10),-(SP) ;BUILD TABLE NAME DESCRIPTOR
7E 00040100 8F D0 077A 1013      MOVL  #LNMS_TABLE@16+WRK_C_INPBUFSIZ,-(SP) ;SET ITEM TYPE AND LENGTH
      7E F4 AE 9E 0781 1014      MOVAB -12(SP),-(SP)      ;SET ADDR OF RETURN LENGTH
50 51 06 C1 0785 1015      ADDL3 #6,R1,R0        ;LENGTH OF RESULT BEFORE EQUIV
7E 04 A8 50 C1 0789 1016      ADDL3 R0,4(R8),-(SP)      ;BUILD EQUIV NAME DESCRIPTOR
      7E 68 50 C3 078E 1017      SUBL3 R0,(R8),-(SP)      ;
      02 AE 02 B0 0792 1018      MOVW  #LNMS_STRING,2(SP) ;SET ITEM TYPE
      57 5E D0 0796 1019      MOVL  SP,R7          ;SET ITEM LIST ADDR
      0799 1020
      0799 1021      STRNLNM_S TABNAM=36(R7),- ;TRANSLATE THE LOGICAL NAME
      0799 1022      LOGNAM=28(R7),- ;
      0799 1023      ITMLST=(R7) ;
      07AC 1024
      01 50 D1 07AC 1025      CMPL  R0,#SS$_NORMAL ;TEST FOR SUCCESSFUL TRANSLATION
      0E 13 07AF 1026      BEQL  30$          ;BRANCH IF SUCCESS
      67 B4 07B1 1027      CLRW  (R7)        ;ELSE CLEAR BYTE COUNT OF RESULTANT
51 F8B0 CF 9E 07B3 1028      MOVAB UNDEFINED,R1 ;INDICATE UNDEFINED
      50 81 9A 07B8 1029      MOVZBL (R1)+,R0 ;
      0C A7 50 7D 07BB 1030      MOVQ  R0,12(R7) ;
      07BF 1031
      07BF 1032      ; Strip off escape sequences.
      07BF 1033      ;
      07BF 1034      ;
      02 A7 B4 07BF 1035 30$: CLRW  2(R7) ;CLEAR ITEM TYPE
      52 67 9E 07C2 1036      MOVAB (R7),R2 ;GET ADDRESS OF EQUIV DESCRIPTOR
      62 D5 07C5 1037      TSTL  (R2)        ;ZERO LENGTH EQUIV?
      11 13 07C7 1038      BEQL  40$          ;IF EQL YES
04 B2 1B 91 07C9 1039      CMPB  #27,@4(R2) ;FIRST CHARACTER ESCAPE?
      0B 12 07CD 1040      BNEQ  40$          ;IF NEQ NO
04 A2 04 C0 07CF 1041      ADDL  #4,4(R2) ;POINT PAST EQUIV HEADER
      62 04 C2 07D3 1042      SUBL  #4,(R2) ;REDUCE LENGTH OF EQUIV BY HEADER
      02 18 07D6 1043      BGEQ  40$          ;IF GEQ OKAY
      62 D4 07D8 1044      CLRL  (R2)        ;CLEAR EQUIV LENGTH
      07DA 1045
      07DA 1046      ; Output the message.
      07DA 1047      ;
      07DA 1048      ;
51 F893 CF 9E 07DA 1049 40$: MOVAB  LOGICALMSG,R1 ;GET ADDRESS OF ASCII FAO STRING
      50 81 9A 07DF 1050      MOVZBL (R1)+,R0 ;MAKE INTO DESCRIPTOR
      7E 50 7D 07E2 1051      MOVQ  R0,-(SP) ;PUSH ONTO STACK
      50 5E D0 07E5 1052      MOVL  SP,R0 ;GET DESCRIPTOR ADDRESSES
      51 1C A7 7E 07E8 1053      MOVAQ 28(R7),R1 ;
      52 67 7E 07EC 1054      MOVAQ (R7),R2 ;
      53 0C A7 7E 07EF 1055      MOVAQ 12(R7),R3 ;
      07F3 1056
      07F3 1057      $FAO_S (R0),(R8),(R8),R1,R2,R3 ;FORMAT OUTPUT MESSAGE
      0806 1058

```

- LOGICAL NAME COMMANDS
SHOW LOGICAL NAME EQUIVALENCES

C 1

16-SEP-1984 00:08:00
4-SEP-1984 23:41:57

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

SE	2C	A7	9E	0806	1059	MOVAB	44(R7),SP	;RESTORE THE STACK
	51	68	7D	080A	1060	MOVQ	(R8),R1	;GET OUTPUT MESSAGE PARAMETERS
		F7F0	30	080D	1061	BSBW	DCL\$MSGOUT	;OUTPUT MESSAGE
				0810	1062	STATUS	NORMAL	;RETURN SUCCESS
			05	0817	1063	RSB		
				0818	1064			
				0818	1065	.END		

LOGICAL
Symbol table

- LOGICAL NAME COMMANDS

D 1

16-SEP-1984 00:08:00 VAX/VMS Macro V04-00
4-SEP-1984 23:41:57 [DCL.SRC]LOGICAL.MAR;1

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$ST1 = 00000000
$ST2 = 00000006
ACCESS = 00000086 R 02
ACMODE = 0000000C
ATTR_M = 00000002
ATTR_V = 00000001
CLASS = 0000008A R 02
CLISK_ALLO_GENE ***** X 02
CLISK_CRET_ATTR ***** X 02
CLISK_CRET_EXEC ***** X 02
CLISK_CRET_LOG ***** X 02
CLISK_CRET_PARE ***** X 02
CLISK_CRET_PROT ***** X 02
CLISK_CRET_QUOT ***** X 02
CLISK_CRET_SUPE ***** X 02
CLISK_CRET_USER ***** X 02
CLISK_DEFI_EXEC ***** X 02
CLISK_DEFI_GROU ***** X 02
CLISK_DEFI_JOB ***** X 02
CLISK_DEFI_LOG ***** X 02
CLISK_DEFI_NAME ***** X 02
CLISK_DEFI_PROC ***** X 02
CLISK_DEFI_SUPE ***** X 02
CLISK_DEFI_SYST ***** X 02
CLISK_DEFI_TABL ***** X 02
CLISK_DEFI_TRAN ***** X 02
CLISK_DEFI_USER ***** X 02
CLIS_ALLOC = 0003DDE3
CLIS_IVKEYW = 00038060
CLIS_IVPROT = 00038070
CLIS_NORMAL = 00030001
CLIS_SUPERSEDE = 0003DDEB
CLIS_TABEXIST = 0003DE0B
CLIS_TABNOTFND = 0003DE1B
CLIS_TABSUPER = 0003DE13
COMMON_CRELNM = 000002AD R 02
COMMON_QUAL = 000003C7 R 02
DCL$ALOCATE = 0000008E RG 02
DCL$ASSIGN = 000001A3 RG 02
DCL$CNVNOEDIT ***** X 02
DCL$COMPRESS ***** X 02
DCL$COMPSTRING ***** X 02
DCL$CREATE_OUTPUT ***** X 02
DCL$CRETABLE = 00000582 RG 02
DCL$DEALLOCAT = 00000314 RG 02
DCL$DEASSIGN = 0000033B RG 02
DCL$DEFINE = 00000231 RG 02
DCL$FORMMSG ***** X 02
DCL$GETDVAL ***** X 02
DCL$GETNVAL ***** X 02
DCL$MSGOUT ***** X 02
DCL$OPEN_OUTPUT ***** X 02
DCL$RESTORE_OUTPUT ***** X 02
DCL$SHOWTRAN = 0000073D RG 02
DEF_M = 00000004
DEF_PROT = 0000FF00
DEF_V = 00000002

```

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EQUAM = 00000020
GET_TRAN_ATTR = 00000544 R 02
LNMSDCL_LOGICAL = 00000034 R 02
LNMSFILE_DEV = 0000005A R 02
LNMSGROUP = 0000001F R 02
LNMSJOB = 00000017 R 02
LNMSM_CONCEALED = 00000100
LNMSM_CONFINE = 00000002
LNMSM_CREATE_IF = 01000000
LNMSM_NO_ALIAS = 00000001
LNMSM_TERMINAL = 00000200
LNMSPROCESS = 0000000B R 02
LNMSPROCESS_DIRECTORY = 00000044 R 02
LNMS$SYSTEM = 00000029 R 02
LNMS_ATTRIBUTES = 00000003
LNMS_STRING = 00000002
LNMS_TABLE = 00000004
LOGICALMSG = 00000071 R 02
LOGNAM = 00000018
LOG_M = 00000001
LOG_V = 00000000
NAME_ATTR = 00000004
OUTPUTNAM = 00000000 R 02
PRC_B_CONTINUE = 000000F3
PRC_B_DEFRADIX = 000000AE
PRC_B_EXMDEPMOD = 000000AD
PRC_B_EXMDEPWID = 000000AC
PRC_B_EXONLYL = 0000012D
PRC_B_FLAGS2 = 000000AF
PRC_B_IMGFLAG = 00000078
PRC_B_OUTFLAGS = 0000012C
PRC_B_PROMPTLEN = 000000F0
PRC_C_LENGTH = 00000534
PRC_G_COMMANDS = 00000133
PRC_G_PROMPT = 000000F4
PRC_K_LENGTH = 00000534
PRC_L_CURRKEY = 00000048
PRC_L_EXMDEPADR = 000000A8
PRC_L_EXTARG = 00000094
PRC_L_EXTBLK = 0000008C
PRC_L_EXTCOD = 0000009C
PRC_L_EXTHND = 00000090
PRC_L_EXTPRM = 00000098
PRC_L_IDFLNK = 000000BC
PRC_L_IMGACTSTS = 00000080
PRC_L_INDCLOCK = 0000007C
PRC_L_INDEPTH = 0000005C
PRC_L_INDFAB = 0000001C
PRC_L_INDIRPRAB = 00000014
PRC_L_INOUTRAB = 00000018
PRC_L_INPRAB = 00000008
PRC_L_LASTKEY = 0000004C
PRC_L_LSTSTATUS = 000000B0
PRC_L_ONCTLY = 000000B8
PRC_L_ONERROR = 0000006C
PRC_L_OUTOFBAND = 000000B4
PRC_L_OUTRAB = 0000000C

```

```

PRC_L_OUTRABCTX      00000118
PRC_L_PPFLIST        00000070
PRC_L_RECALLPTR      0000012F
PRC_L_RESTART        00000058
PRC_L_SAVAP          00000000
PRC_L_SAVFP          00000004
PRC_L_SEVERITY       00000050
PRC_L_SPWN           000000C0
PRC_L_STACKLM        000000A4
PRC_L_STACKPT        000000A0
PRC_L_STATUS         00000054
PRC_L_STS            00000084
PRC_L_STV            00000088
PRC_L_SYMBOL         00000060
PRC_L_TMBX           00000074
PRC_L_TRMLIST        00000010
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_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
PSL$C_EXEC           = 00000001
PSL$C_SUPER          = 00000002
PSL$C_USER           = 00000003
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_COMMA          = 00000005
PTR_K_ENDLINE        = 00000004
PTR_K_LENGTH         0000000C
PTR_K_PARAMETR       = 00000003
PTR_K_QUALVALU       = 00000002
PTR_L_DESCR          00000000
PTR_L_ENTITY         00000008
PTR_V_FLAGS          = 00000014
    
```

```

PTR_V_KEYWORD        = 00000015
PTR_V_NEGATE         = 00000014
QUAL                 = 00000008
SS$_LNMCREATED       = 000006B1
SS$_NORMAL           = 00000001
SS$_NOSUCHDEV        = 00000908
SS$_SUPERSEDE        = 00000631
SYSSALLOC            ***** GX 02
SYSSCRELNM           ***** GX 02
SYSSCRELNT           ***** GX 02
SYSSDALLOC           ***** GX 02
SYSSDELLNM           ***** GX 02
SYSSFAO              ***** X 02
SYSTRNLNM            ***** GX 02
TABNAM               = 00000010
TESTOUT              00000391 R 02
TRAN_ATTR            = 00000000
UNDEFINED            00000067 R 02
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_INPBUFSIZ     = 00000100
WRK_C_LENGTH         FFFFFFF486
WRK_G_BUFFER         FFFFFFF492
WRK_G_INPBUF         FFFFFFF896
WRK_G_RESULT         FFFFFFF9B6
WRK_K_LENGTH         FFFFFFF486
WRK_L_CHARPTR        FFFFFFF48E
WRK_L_DISALLOW       FFFFFFFE6
WRK_L_ERRORRTN       FFFFFFF9AE
WRK_L_EXPANDPTR      FFFFFFF486
WRK_L_IMAGE          FFFFFFFE2
WRK_L_MARKPTR        FFFFFFF48A
WRK_L_PAROUT         FFFFFFFD2
WRK_L_PMPTADDR       FFFFFFF9A2
WRK_L_PROMPTRTN      FFFFFFF9A6
WRK_L_PROPTR         FFFFFFFC6
WRK_L_QUABLK         FFFFFFFCA
WRK_L_READRTN        FFFFFFF9AA
WRK_L_RECALLPTR      FFFFFFFEA
WRK_L_RSLND          FFFFFFFB6
WRK_L_RSLNXT         FFFFFFFBA
WRK_L_SAVAP          FFFFFFFF8
WRK_L_SAVFP          FFFFFFFFC
WRK_L_SAVSP          FFFFFFFF4
WRK_L_SIGNALRTN      FFFFFFFD6
WRK_L_SPECRTN        FFFFFFF9B2
WRK_L_TAB_VEC        FFFFFFFDE
WRK_L_VERB           FFFFFFFBE
WRK_W_FLAGS          FFFFFFFF0
WRK_W_FLAGS2         FFFFFFFF2
WRK_W_IMGCHAN        FFFFFFFEE
    
```

LOGICAL
Symbol table

- LOGICAL NAME COMMANDS

F 1

16-SEP-1984 00:08:00 VAX/VMS Macro V04-00
4-SEP-1984 23:41:57 [DCL.SRC]LOGICAL.MAR;1

Page 29
(13)

WRK_W_PMPTLEN

FFFFFF99E

! 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	FFFFFFFC (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
DCL\$ZCODE	00000818 (2072.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	15	00:00:00.08	00:00:01.26
Command processing	101	00:00:00.65	00:00:05.99
Pass 1	331	00:00:13.05	00:00:33.89
Symbol table sort	0	00:00:01.59	00:00:04.36
Pass 2	183	00:00:05.27	00:00:09.90
Symbol table output	27	00:00:00.18	00:00:00.64
Psect synopsis output	2	00:00:00.03	00:00:00.05
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	659	00:00:18.96	00:00:56.11

The working set limit was 1500 pages.
69087 bytes (135 pages) of virtual memory were used to buffer the intermediate code.
There were 60 pages of symbol table space allocated to hold 980 non-local and 104 local symbols.
1065 source lines were read in Pass 1, producing 20 object records in Pass 2.
43 pages of virtual memory were used to define 28 macros.

! Macro library statistics !

Macro library name	Macros defined
-\$255\$DUA28:[SYSLIB]SYSBLDMLB.MLB;1	0
-\$255\$DUA28:[DCL.OBJ]DCL.MLB;1	6
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	16
TOTALS (all libraries)	22

1132 GETS were required to define 22 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:LOGICAL/OBJ=OBJ\$:LOGICAL MSRC\$:LOGICAL/UPDATE=(ENH\$:LOGICAL)+EXECML\$/LIB+LIB\$:DCL/LIB+SYS\$LIBRARY:SYSBLDMLB/LIB

0071 AH-BT13A-SE
VAX/VMS V4.0

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INQUIRE
LIS

LEXICON
LIS

KEYPAD
LIS

LOGICAL
LIS

The image displays a grid of 100 small terminal window screenshots, arranged in a 10x10 grid. Each window shows a different VAX/VMS command and its corresponding output. The commands and outputs are as follows:

- Row 1: 10 windows showing various system status and command outputs.
- Row 2: 10 windows showing various system status and command outputs.
- Row 3: 10 windows showing various system status and command outputs.
- Row 4: 10 windows showing various system status and command outputs.
- Row 5: 10 windows showing various system status and command outputs.
- Row 6: 10 windows showing various system status and command outputs.
- Row 7: 10 windows showing various system status and command outputs.
- Row 8: 10 windows showing various system status and command outputs.
- Row 9: 10 windows showing various system status and command outputs.
- Row 10: 10 windows showing various system status and command outputs.

Highlighted windows with larger text labels:

- Row 4, Column 1: MESSAGE LIS
- Row 5, Column 4: READREC LIS
- Row 5, Column 5: RECALL SUB LIS
- Row 5, Column 6: RPCLINT LIS
- Row 6, Column 2: PARSENT LIS
- Row 7, Column 1: ON LIS