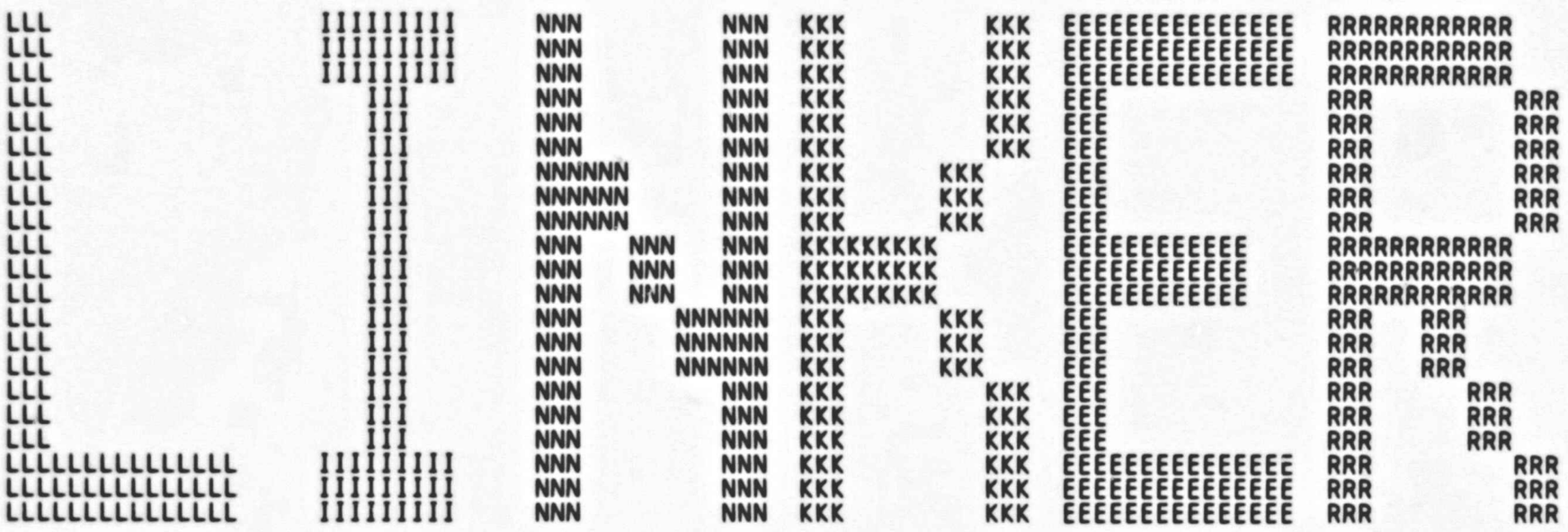
LLL IIIIIIIII NNN NNN KKK KKK EEEEEEEEEEEEEEE RRRRRRRRRRR
LLL IIIIIIIII NNN NNN KKK KKK EEEEEEEEEEEEEEE RRRRRRRRRRR
LLL IIIIIIIII NNN NNN KKK KKK EEEEEEEEEEEEEEE RRRRRRRRRRR
LLL III NNN NNN KKK KKK EEE RRR RRR
LLL III NNN NNN KKK KKK EEE RRR RRR
LLL III NNN NNN KKK KKK EEE RRR RRR
LLL III NNNNNN NNN KKK KKK EEE RRR RRR
LLL III NNNNNN NNN KKK KKK EEE RRR RRR
LLL III NNNNNN NNN KKK KKK EEE RRR RRR
LLL III NNN NNN NNN KKKKKKKKK EEEEEEEEEEEEE RRRRRRRRRRR
LLL III NNN NNN NNN KKKKKKKKK EEEEEEEEEEEEE RRRRRRRRRRR
LLL III NNN NNN NNN KKKKKKKKK EEEEEEEEEEEEE RRRRRRRRRRR
LLL III NNN NNNNNN KKK KKK EEE RRR RRR
LLL III NNN NNNNNN KKK KKK EEE RRR RRR
LLL III NNN NNNNNN KKK KKK EEE RRR RRR
LLL III NNN NNN KKK KKK EEE RRR RRR
LLL III NNN NNN KKK KKK EEE RRR RRR
LLL III NNN NNN KKK KKK EEE RRR RRR
LLLLLLLLLLLLLLL IIIIIIIII NNN NNN KKK KKK EEEEEEEEEEEEEEE RRR RRR
LLLLLLLLLLLLLLL IIIIIIIII NNN NNN KKK KKK EEEEEEEEEEEEEEE RRR RRR
LLLLLLLLLLLLLLL IIIIIIIII NNN NNN KKK KKK EEEEEEEEEEEEEEE RRR RRR

```
LL          NN      NN  KK     KK  NN      NN  XX     XX  TTTTTTTTTT    000000    BBBBBBBB          JJ
LL          NN      NN  KK     KK  NN      NN  XX     XX  TTTTTTTTTT    000000    BBBBBBBB          JJ
LL          NN      NN  KK     KK  NN      NN  XX     XX      TT      00      00  BB      BB        JJ
LL          NN      NN  KK     KK  NN      NN  XX     XX      TT      00      00  BB      BB        JJ
LL          NNNN    NN  KK   KK    NNNN    NN    XX  XX        TT      00      00  BB      BB        JJ
LL          NNNN    NN  KK   KK    NNNN    NN    XX  XX        TT      00      00  BB      BB        JJ
LL          NN  NN  NN  KKKKK      NN  NN  NN      XX          TT      00      00  BBBBBBBB          JJ
LL          NN  NN  NN  KKKKK      NN  NN  NN      XX          TT      00      00  BBBBBBBB          JJ
LL          NN    NNNN  KK   KK    NN    NNNN    XX  XX        TT      00      00  BB      BB  JJ    JJ
LL          NN    NNNN  KK   KK    NN    NNNN    XX  XX        TT      00      00  BB      BB  JJ    JJ
LL          NN      NN  KK     KK  NN      NN  XX     XX      TT      00      00  BB      BB  JJ    JJ      ....
LL          NN      NN  KK     KK  NN      NN  XX     XX      TT      00      00  BB      BB  JJ    JJ      ....
LLLLLLLLLL  NN      NN  KK     KK  NN      NN  XX     XX      TT        000000    BBBBBBBB      JJJJJJ      ....
LLLLLLLLLL  NN      NN  KK     KK  NN      NN  XX     XX      TT        000000    BBBBBBBB      JJJJJJ      ....

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
LLLLLLLLLL    IIIIII    SSSSSSSS
LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
;  1          0001  0 MODULE LNK_NXTOBJ
;  2          0002  0         (IDENT = 'V04-000',
;  3          0003  0         ADDRESSING_MODE(EXTERNAL=GENERAL,
;  4          0004  0                        NONEXTERNAL=LONG_RELATIVE)
;  5          0005  0         ) =
;  6          0006  0
;  7          0007  1 BEGIN
;  8          0008  1 !
;  9          0009  1 !
; 10          0010  1 !*****************************************************************************
; 11          0011  1 !*                                                                           *
; 12          0012  1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
; 13          0013  1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                   *
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; 17          0017  1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE  *
; 18          0018  1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER   *
; 19          0019  1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY   *
; 20          0020  1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY   *
; 21          0021  1 !*  TRANSFERRED.                                                             *
; 22          0022  1 !*                                                                           *
; 23          0023  1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE   *
; 24          0024  1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
; 25          0025  1 !*  CORPORATION.                                                             *
; 26          0026  1 !*                                                                           *
; 27          0027  1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS   *
; 28          0028  1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
; 29          0029  1 !*                                                                           *
; 30          0030  1 !*                                                                           *
; 31          0031  1 !*****************************************************************************
; 32          0032  1 !
; 33          0033  1 !
; 34          0034  1 !
; 35          0035  1 !
; 36          0036  1 !
; 37          0037  1 !++
; 38          0038  1 !
; 39          0039  1 ! MODULE: LNK_NXTOBJ
; 40          0040  1 !
; 41          0041  1 ! FACILITY: LINKER
; 42          0042  1 !
; 43          0043  1 ! ABSTRACT: FIND NEXT OBJECT MODULE (AND OPEN FILE) FOR PASS 2.
; 44          0044  1 !
; 45          0045  1 ! HISTORY:
; 46          0046  1 !
; 47          0047  1 !       VERSION: X01.00
; 48          0048  1 !
; 49          0049  1 !       AUTHOR: T.J. PORTER 11-APR-77
; 50          0050  1 !
; 51          0051  1 ! MODIFIED BY:
; 52          0052  1 !
; 53          0053  1 !       V03-003 BLS0074         Benn Schreiber          29-Aug-1981
; 54          0054  1 !               Remove argument for call to lnk$nxtobjmod
; 55          0055  1 !
; 56          0056  1 !       V03-002 BLS0017         Benn Schreiber          1-Sep-1980
; 57          0057  1 !               Set lnk$gl_curomd when going to new object module.
```

```
;   58          0058  1 !
;   59          0059  1 !       V03-001 BLS0007         Benn Schreiber,         3-Jun-1980
;   60          0060  1 !                               Convert to MDL data structures.
;   61          0061  1 !--
```

```
;    63          0062  1 !
;    64          0063  1 !++
;    65          0064  1 !
;    66          0065  1 ! FUNCTIONAL DESCRIPTION:
;    67          0066  1 !
;    68          0067  1 !
;    69          0068  1 !       THIS MODULE CONTAINS THE ROUTINE TO ACQUIRE THE NEXT
;    70          0069  1 !       OBJECT MODULE DESCRIPTOR AND ENSURE THAT THE FILE IS OPEN
;    71          0070  1 !       (AT CORRECT PLACE) READY FOR PASS 2 TO READ RECORDS
;    72          0071  1 !       SEQUENTIALLY FROM IT.
;    73          0072  1 !               THIS IS DONE BY FOLLOWING DOWN THE SINGLY LINKED
;    74          0073  1 !       LIST OF OBJECT MODULE DESCRIPTORS TO THE END, THEN PROCEEDING
;    75          0074  1 !       TO THE NEXT FILE IN SEQUENCE, OPENING IT AND FOLLOWING
;    76          0075  1 !       DOWN THE LIST.
;    77          0076  1 !               CALLING SEQUENCE:-
;    78          0077  1 !                       LNK$NXTOBJMOD ()
;    79          0078  1 !
;    80          0079  1 !       THE ADDRESS OF THE DESCRIPTOR OF THE NEXT OBJECT MODULE
;    81          0080  1 !       IS STORED IN LNK$GL_CUROMD
;    82          0081  1 !               ROUTINE HAS VALUE FALSE WHEN NO MORE
;    83          0082  1 !       MODULES ARE AVAILABLE IN THE LAST FILE.
;    84          0083  1 !
;    85          0084  1 !--
;    86          0085  1 !
;    87          0086  1 LIBRARY
;    88          0087  1         'STARLETL32';                   ! SYSTEM USER DATA STRUCTURES
;    89          0088  1 REQUIRE
;    90          0089  1         'PREFIX';                       ! MACROS ETC.
;    91          0204  1 LIBRARY
;    92          0205  1         'DATBAS';                       ! INTERNAL DATA BASE DEFINITION
;    93          0206  1 !
;    94          0207  1 EXTERNAL LITERAL
;    95          0208  1         LIN$_EMPTYFILE;                 ! FILE CONTAINS NO MODULES
;    96          0209  1 !
;    97          0210  1 EXTERNAL ROUTINE
;    98          0211  1         LNK$NXTFIL,                                     ! OPEN NEXT FILE
;    99          0212  1         LNK$POINTOBJ;                                   ! POINT TO A MODULE IN LIBRARY
;   100          0213  1 !
;   101          0214  1 EXTERNAL
;   102          0215  1         LNK$GL_CUROMD : REF BLOCK[,BYTE],               ! POINTER TO CURRENT OBJECT MODULE DESCRIPTO
;   103          0216  1         LNK$GL_CURFIL : REF BLOCK[,BYTE];               ! POINTER TO CURRENT FILE.
;   104          0217  1 !
;   105          0218  1 GLOBAL ROUTINE LNK$NXTOBJMOD =
;   106          0219  2 BEGIN
;   107          0220  2 !
;   108          0221  2 !       IF THE END OF A LIST OF OBJECT MODULE DESCRIPTORS (OR
;   109          0222  2 !       FIRST CALL) OPEN NEXT FILE. ON SUBSEQUENT CALLS FOLLOW DOWN
;   110          0223  2 !       CURRENT LIST. FINALLY RETURN VALUE FALSE
;   111          0224  2 !
;   112          0225  2 LOCAL
;   113          0226  2         LSTOBMODESC : REF BLOCK[,BYTE];                 ! POINTER TO PREVIOUS OBJ MOD. DESCRIPTOR
;   114          0227  2 !
;   115          0228  2 IF (LSTOBMODESC = .LNK$GL_CUROMD) NEQ 0                 ! IF THERE WAS ONE
;   116          0229  2     THEN LNK$GL_CUROMD = .LNK$GL_CUROMD[OMD$L_NXTOMD];  ! BEFORE, GET THE ONE
;   117          0230  2 WHILE (.LNK$GL_CUROMD EQL 0) DO                         ! IT POINTS TO IF THERE
;   118          0231  3 BEGIN                                                   ! IS NO LONGER A DESCRIPTOR
;   119          0232  3         LSTOBMODESC = 0;                                ! RESET THE LAST OBJECT DESCRIPTOR
```

```
;  120          0233  3          IF NOT LNK$NXTFIL()                                                ! OPEN NEXT FILE
;  121          0234  4          THEN BEGIN                                                         ! AND ALL DONE IF NO MORE
;  122          0235  4                  LNK$GL_CURFIL = 0;
;  123          0236  4                  RETURN FALSE
;  124          0237  3              END;
;  125          0238  3          IF (LNK$GL_CUROMD = .LNK$GL_CURFIL[FDB$L_OMDLST]) EQL 0 ! OTHERWISE GET THE FIRST MODULE
;  126          0239  3          THEN                                                               ! BUT IF THERE IS NONE
;  127          0240  3                  SIGNAL(LIN$_EMPTYFILE,1,LNK$GL_CURFIL[FDB$Q_FILENAME]); ! REPORT THE ERROR
;  128          0241  2      END;
;  129          0242  2  IF .LNK$GL_CURFIL[FDB$V_LIBR]                                            ! IF A LIBRARY FILE
;  130          0243  2      OR .LNK$GL_CUROMD[OMD$V_SHRIMG]                                      ! AND/OR A SHAREABLE IMAGE
;  131          0244  4      OR ((.LSTOBMODESC NEQ 0)                                             ! OR THIS IS NOT THE FIRST IN A CONCATENATED
;  132          0245  3      AND .LSTOBMODESC[OMD$V_NOBIN])                                       ! OBJ BUT IS PRECEDED BY A MODULE WITH NO BI
;  133          0246  2      THEN LNK$POINTOBJ(LNK$GL_CUROMD[OMD$L_MODVBN]);                      ! POINT TO THE MODULE
;  134          0247  2
;  135          0248  2  RETURN TRUE                                                              ! AND SUCCESS
;  136          0249  1  END;


                                                        .TITLE  LNK_NXTOBJ
                                                        .IDENT  \V04-000\

                                                        .EXTRN  LIN$_EMPTYFILE, LNK$NXTFIL
                                                        .EXTRN  LNK$POINTOBJ, LNK$GL_CUROMD
                                                        .EXTRN  LNK$GL_CURFIL

                                                        .PSECT  $CODE$,NOWRT,2

                                    001C 00000          .ENTRY  LNK$NXTOBJMOD, Save R2,R3,R4                    ; 0218
                    54 00000000G    00   9E 00002      MOVAB   LNK$GL_CURFIL, R4                               ;
                    53 00000000G    00   9E 00009      MOVAB   LNK$GL_CUROMD, R3                               ;
                    50              63   D0 00010      MOVL    LNK$GL_CUROMD, R0                               ; 0228
                    52              50   D0 00013      MOVL    R0, LSTOBMODESC                                 ;
                                    03   13 00016      BEQL    1$                                              ;
                    63              60   D0 00018      MOVL    (R0), LNK$GL_CUROMD                             ; 0229
                                    63   D5 0001B 1$:   TSTL    LNK$GL_CUROMD                                   ; 0230
                                    2D   12 0001D      BNEQ    3$                                              ;
                                    52   D4 0001F      CLRL    LSTOBMODESC                                     ; 0232
          00000000G 00              00   FB 00021      CALLS   #0, LNK$NXTFIL                                  ; 0233
                    04              50   E8 00028      BLBS    R0, 2$                                          ;
                                    64   D4 0002B      CLRL    LNK$GL_CURFIL                                   ; 0235
                                    45   11 0002D      BRB     6$                                              ; 0236
                    50              64   D0 0002F 2$:   MOVL    LNK$GL_CURFIL, R0                               ; 0238
                    63        04    A0   D0 00032      MOVL    4(R0), LNK$GL_CUROMD                            ;
                                    E3   12 00036      BNEQ    1$                                              ;
                              14    A0   9F 00038      PUSHAB  20(R0)                                          ; 0240
                                    01   DD 0003B      PUSHL   #1                                              ;
                    00000000G       8F   DD 0003D      PUSHL   #LIN$_EMPTYFILE                                 ;
          00000000G 00              03   FB 00043      CALLS   #3, LIB$SIGNAL                                  ;
                                    CF   11 0004A      BRB     1$                                              ; 0230
                    50              64   D0 0004C 3$:   MOVL    LNK$GL_CURFIL, R0                               ; 0242
          11        0A    A0              01   E0 0004F      BBS     #1, 10(R0), 4$                          ;
                    50              63   D0 00054      MOVL    LNK$GL_CUROMD, R0                               ; 0243
          09        14    A0              02   E0 00057      BBS     #2, 20(R0), 4$                          ;
                                    52   D5 0005C      TSTL    LSTOBMODESC                                     ; 0244
                                    10   13 0005E      BEQL    5$                                              ;
          0B        14    A2              01   E1 00060      BBC     #1, 20(LSTOBMODESC), 5$                 ; 0245
```

```
                7E                  63          0C  C1 00065 4$:    ADDL3   #12, LNK$GL_CUROMD, -(SP)          ; 0246
                    00000000G       00          01  FB 00069          CALLS   #1, LNK$POINTOBJ                   ;
                                    50          01  D0 00070 5$:    MOVL    #1, R0                             ; 0248
                                                    04 00073          RET                                        ;
                                                50  D4 00074 6$:    CLRL    R0                                 ; 0249
                                                    04 00076          RET                                        ;

; Routine Size:  119 bytes,    Routine Base:  $CODE$ + 0000

;  137          0250  0 END ELUDOM


                                                                      .EXTRN  LIB$SIGNAL

;                               PSECT SUMMARY
;
;       Name                    Bytes                           Attributes
;
;  $CODE$                            119  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)


;                           Library Statistics
;                                        --------  Symbols  --------      Pages       Processing
;       File                             Total     Loaded   Percent      Mapped      Time
;
;  _$255$DUA28:[SYSLIB]STARLET.L32;1      9776          6         0         581       00:01.0
;  _$255$DUA28:[LINKER.OBJ]DATBAS.L32;1    538          7         1          28       00:00.5




;                                   COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:LNKNXTOBJ/OBJ=OBJ$:LNKNXTOBJ MSRC$:LNKNXTOBJ/UPDATE=(ENH$:LNKNXTOBJ)

; Size:          119 code + 0 data bytes
; Run Time:        00:04.8
; Elapsed Time:    00:18.7
; Lines/CPU Min:    3112
; Lexemes/CPU-Min:  9970
; Memory Used:  57 pages
; Compilation Complete
```

LNKNXTOBJ
LIS

LNKOBJPSI
LIS

LNKOBJFIL
LIS