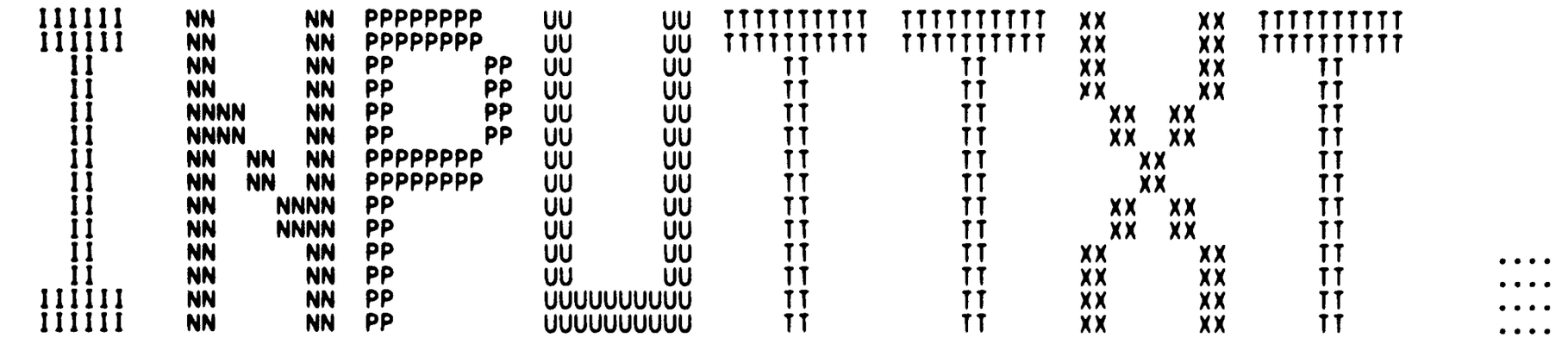
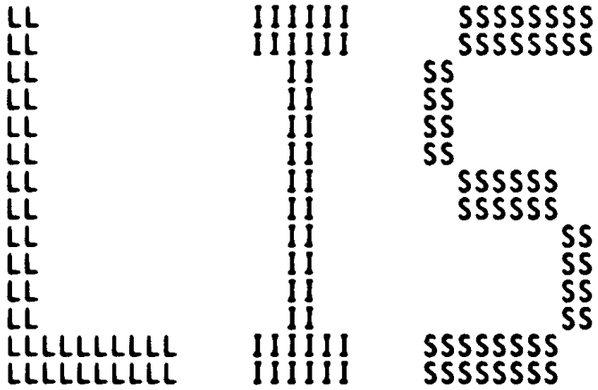
```
LLL                 IIIIIIIII     BBBBBBBBBBBB     RRRRRRRRRRRR        AAAAAAAAA     RRRRRRRRRRRR
LLL                 IIIIIIIII     BBBBBBBBBBBB     RRRRRRRRRRRR        AAAAAAAAA     RRRRRRRRRRRR
LLL                 IIIIIIIII     BBBBBBBBBBBB     RRRRRRRRRRRR        AAAAAAAAA     RRRRRRRRRRRR
LLL                    III        BBB         BBB  RRR         RRR  AAA         AAA  RRR         RRR
LLL                    III        BBB         BBB  RRR         RRR  AAA         AAA  RRR         RRR
LLL                    III        BBB         BBB  RRR         RRR  AAA         AAA  RRR         RRR
LLL                    III        BBB         BBB  RRR         RRR  AAA         AAA  RRR         RRR
LLL                    III        BBB         BBB  RRR         RRR  AAA         AAA  RRR         RRR
LLL                    III        BBB         BBB  RRR         RRR  AAA         AAA  RRR         RRR
LLL                    III        BBBBBBBBBBBB     RRRRRRRRRRRR     AAA         AAA  RRRRRRRRRRRR
LLL                    III        BBBBBBBBBBBB     RRRRRRRRRRRR     AAA         AAA  RRRRRRRRRRRR
LLL                    III        BBBBBBBBBBBB     RRRRRRRRRRRR     AAA         AAA  RRRRRRRRRRRR
LLL                    III        BBB         BBB  RRR   RRR        AAAAAAAAAAAAAAA  RRR   RRR
LLL                    III        BBB         BBB  RRR   RRR        AAAAAAAAAAAAAAA  RRR   RRR
LLL                    III        BBB         BBB  RRR   RRR        AAAAAAAAAAAAAAA  RRR   RRR
LLL                    III        BBB         BBB  RRR      RRR     AAA         AAA  RRR      RRR
LLL                    III        BBB         BBB  RRR      RRR     AAA         AAA  RRR      RRR
LLL                    III        BBB         BBB  RRR      RRR     AAA         AAA  RRR      RRR
LLLLLLLLLLLLLLL     IIIIIIIII     BBBBBBBBBBBB     RRR         RRR  AAA         AAA  RRR         RRR
LLLLLLLLLLLLLLL     IIIIIIIII     BBBBBBBBBBBB     RRR         RRR  AAA         AAA  RRR         RRR
LLLLLLLLLLLLLLL     IIIIIIIII     BBBBBBBBBBBB     RRR         RRR  AAA         AAA  RRR         RRR
```

FILEID**INPUTTXT





```
;     1          0001  0 MODULE lib_inputtxt (                       . Get next TEXT input line
;     2          0002  0                 LANGUAGE (BLISS32),
;     3          0003  0                 IDENT = 'V04-000'
;     4          0004  0                 ) =
;     5          0005  1 BEGIN
;     6          0006  1
;     7          0007  1 !
;     8          0008  1 !**************************************************************************
;     9          0009  1 !*                                                                        *
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;    27          0027  1 !*                                                                        *
;    28          0028  1 !*                                                                        *
;    29          0029  1 !**************************************************************************
;    30          0030  1
;    31          0031  1 !++
;    32          0032  1 !
;    33          0033  1 ! FACILITY:  Library command processor
;    34          0034  1 !
;    35          0035  1 ! ABSTRACT:
;    36          0036  1 !
;    37          0037  1 !       The VAX/VMS librarian is invoked by DCL to process the LIBRARY
;    38          0038  1 !       command.  It utilizes the librarian procedure set to perform
;    39          0039  1 !       the actual modifications to the library.
;    40          0040  1 !
;    41          0041  1 ! ENVIRONMENT:
;    42          0042  1 !
;    43          0043  1 !       VAX native, user mode.
;    44          0044  1 !
;    45          0045  1 !--
;    46          0046  1 !
;    47          0047  1 !
;    48          0048  1 ! AUTHOR:  Marty Jack, Benn Schreiber    CREATION DATE:  23-Aug-1979
;    49          0049  1 !
;    50          0050  1 ! MODIFIED BY:
;    51          0051  1 !
;    52          0052  1 !       V02-007         RPG0047         Bob Grosso      17-Nov-1981
;    53          0053  1 !               Fix entering of empty text modules to not pad other
;    54          0054  1 !               modules with blank line.
;    55          0055  1 !
;    56          0056  1 !       V02-006         RPG0046         Bob Grosso      7-Aug-1981
;    57          0057  1 !               lib$gl_ctlmsk now a quadword
```

```
;    58          0058  1 !
;    59          0059  1 !       V02-005         RPG0037         Bob Grosso      24-Jun-19??
;    60          0060  1 !               Permit <> on module name directory specification.
;    61          0061  1 !
;    62          0062  1 !       V02-004         RPG0036         Bob Grosso      18-Jun-1981
;    63          0063  1 !               Permit entering of empty text modules.
;    64          0064  1 !
;    65          0065  1 !       V02-003         RPG0035         Bob Grosso      22-Apr-1981
;    66          0066  1 !               Record module names for Library Update History
;    67          0067  1 !
;    68          0068  1 !       V02-002 BLS0029         Benn Schreiber          23-Dec-1980
;    69          0069  1 !               Convert messages to message compiler
;    70          0070  1 !--
;    71          0071  1
;    72          0072  1
```

```
;    74          0073  1 LIBRARY
;    75          0074  1         'SYS$LIBRARY:STARLET.L32';
;    76          0075  1 REQUIRE
;    77          0076  1         'PREFIX';
;    78          0260  1 REQUIRE
;    79          0261  1         'LIBDEF';
;    80          0549  1 REQUIRE
;    81          0550  1         'LBRDEF';
;    82          1141  1
;    83          1142  1 EXTERNAL ROUTINE
;    84          1143  1     get_record,                                   !Read next input record
;    85          1144  1     lib_log_op,                                   !Log insert operation
;    86          1145  1     lib_log_upd,                                  !Record module names for LUH
;    87          1146  1     lbr$put_record : ADDRESSING_MODE (GENERAL),   !Write record to library
;    88          1147  1     lbr$replace_key : ADDRESSING_MODE (GENERAL),  !Replace or insert key
;    89          1148  1     lbr$lookup_key : ADDRESSING_MODE (GENERAL),   !Lookup key
;    90          1149  1     lbr$insert_key : ADDRESSING_MODE (GENERAL),   !Insert key
;    91          1150  1     lbr$delete_key : ADDRESSING_MODE (GENERAL),   !Delete key
;    92          1151  1     lbr$delete_data : ADDRESSING_MODE (GENERAL),  !Delete data
;    93          1152  1     lbr$put_end : ADDRESSING_MODE (GENERAL);      !Finish writing to library
;    94          1153  1
;    95          1154  1 EXTERNAL
;    96          1155  1     lbr$gl_rmsstv : ADDRESSING_MODE (GENERAL),    !RMS STV from librarian
;    97          1156  1     lib$gl_keysize,                               !Max length of keys
;    98          1157  1     lib$gl_ctlmsk : BLOCK [2],
;    99          1158  1     lib$gl_libfdb : REF BBLOCK,
;   100          1159  1     lib$gl_inpfdb : REF BBLOCK,
;   101          1160  1     lib$gl_libctl;
;   102          1161  1
;   103          1162  1 EXTERNAL LITERAL
;   104          1163  1     lib$_inserterr,                               !Error inserting
;   105          1164  1     lib$_deldaterr,                               !Delete data error
;   106          1165  1     lib$_replaced,                                !Module replaced
;   107          1166  1     lib$_inserted,                                !Module inserted
;   108          1167  1     lib$_nomodnam,                                !No module name
;   109          1168  1     lib$_modnamlng,                               !Module name length bad
;   110          1169  1     lib$_dupmod;                                  !Duplicate module
;   111          1170  1
;   112          1171  1 FORWARD ROUTINE
;   113          1172  1     setmodname;
;   114          1173  1
;   115          1174  1 OWN
;   116          1175  1     bufdesc : BBLOCK [dsc$c_s_bln],               ! Descriptor for current line
;   117          1176  1     txtrfa : BBLOCK [rfa$c_length],
;   118          1177  1     modnamdesc : BBLOCK [dsc$c_s_bln];            ! Descriptor for module name
;   119          1178  1
;   120          1179  1 BIND
;   121          1180  1     linelen = bufdesc [dsc$w_length] : WORD,
;   122          1181  1     lineaddr = bufdesc [dsc$a_pointer];
```

```
;  124          1182  1 GLOBAL ROUTINE lib_input_txt =
;  125          1183  2 BEGIN
;  126          1184  2 !
;  127          1185  2 ! This routine reads TEXT source files and inserts them into the library.
;  128          1186  2 !
;  129          1187  2 LOCAL
;  130          1188  2     deltxtrfa : BBLOCK [rfa$c_length],
;  131          1189  2     replacing,
;  132          1190  2     status,
;  133          1191  2     get_status;
;  134          1192  2
;  135          1193  2 BIND
;  136          1194  2     libdesc = lib$gl_libfdb [fdb$l_namdesc] : BBLOCK,
;  137          1195  2     inpdesc = lib$gl_inpfdb [fdb$l_namdesc] : BBLOCK;
;  138          1196  2
;  139          1197  2 perform (setmodname ());
;  140          1198  2 txtrfa = 0;
;  141          1199  2 !
;  142          1200  2 !   Get first record.  If it's blank, then call lbr$put_record to
;  143          1201  2 !   put a module header.  Otherwise loop reading whole input file
;  144          1202  2 !   until end of file.
;  145          1203  2 !
;  146          1204  2 get_status = get_record (bufdesc);                          ! read first record
;  147          1205  3 IF NOT (status = lbr$put_record (lib$gl_libctl, bufdesc, txtrfa))      ! put a module header and the first
;  148          1206  2 THEN SIGNAL (lib$_writeerr, 1, libdesc, .status, .lbr$gl_rmsstv);
;  149          1207  2
;  150          1208  2 IF .get_status NEQ rms$_eof                                 ! If the file was not empty
;  151          1209  2 THEN
;  152          1210  3     BEGIN
;  153          1211  3     WHILE (get_status = get_record (bufdesc)) NEQ rms$_eof DO          ! Read in records until end of file
;  154          1212  4         IF NOT (status = lbr$put_record (lib$gl_libctl, bufdesc, txtrfa))
;  155          1213  3         THEN SIGNAL (lib$_writeerr, 1, libdesc, .status, .lbr$gl_rmsstv);
;  156          1214  2     END;
;  157          1215  2
;  158          1216  2 !
;  159          1217  2 ! Write end of module record
;  160          1218  2 !
;  161          1219  3 IF NOT (status = lbr$put_end (lib$gl_libctl))
;  162          1220  2     THEN SIGNAL (lib$_writeerr, 1, libdesc, .status, .lbr$gl_rmsstv);
;  163          1221  2
;  164          1222  2 !
;  165          1223  2 ! If replacing, determine if module already exists in library. If it does,
;  166          1224  2 !  then replace the module and delete the old data.  If it doesn't just
;  167          1225  2 !  insert the module by calling lbr$replace_key.  If inserting the module,
;  168          1226  2 !  then call lbr$insert_key.
;  169          1227  2 !
;  170          1228  2 replacing = false;
;  171          1229  2 IF .lib$gl_ctlmsk [lib$v_replace]
;  172          1230  3     THEN BEGIN
;  173          1231  3         replacing = lbr$lookup_key (lib$gl_libctl, modnamdesc, deltxtrfa);
;  174          1232  3         status = lbr$replace_key (lib$gl_libctl, modnamdesc, deltxtrfa, txtrfa);
;  175          1233  3         IF NOT .status
;  176          1234  4             THEN BEGIN
;  177          1235  4                 SIGNAL (lib$_inserterr, 2, modnamdesc, libdesc, .status, .lbr$gl_rmsstv);
;  178          1236  4                 RETURN lib$_inserterr;
;  179          1237  3                 END;
;  180          1238  3         IF .replacing
```

```
;  181          1239  4              THEN IF NOT (status = lbr$delete_data (lib$gl_libctl, deltxtrfa))
;  182          1240  4                  THEN BEGIN
;  183          1241  4                      SIGNAL (lib$_deldaterr, 1, libdesc, .status, .lbr$gl_rmsstv);
;  184          1242  4                      RETURN lib$_deldaterr;
;  185          1243  3                      END;
;  186          1244  3          END
;  187          1245  3
;  188          1246  3          ELSE BEGIN
;  189          1247  3              status = lbr$insert_key (lib$gl_libctl, modnamdesc, txtrfa);
;  190          1248  3              IF NOT .status
;  191          1249  4                  THEN BEGIN
;  192          1250  4                      SIGNAL (lib$_inserterr, 2, modnamdesc, libdesc, .status, .lbr$gl_rmsstv);
;  193          1251  4                      RETURN lib$_inserterr;
;  194          1252  3                      END;
;  195          1253  2             END;                                                                    ;
;  196          1254  2
;  197          1255  3 lib_log_upd ((IF .replacing THEN lhe$c_replaced
;  198          1256  2                                ELSE lhe$c_inserted), modnamdesc );
;  199          1257  3 lib_log_op ((IF .replacing THEN lib$_replaced
;  200          1258  2                                ELSE lib$_inserted), modnamdesc, .lib$gl_libfdb);
;  201          1259  2 RETURN true
;  202          1260  1 END;                                  !Of lib_input_txt

                                                        .TITLE  LIB_INPUTTXT
                                                        .IDENT  \V04-000\

                                                        .PSECT  $OWN$,NOEXE,2

                                                00000 BUFDESC:.BLKB   8
                                                00008 TXTRFA: .BLKB   6
                                                0000E         .BLKB   2
                                                00010 MODNAMDESC:
                                                        .BLKB   8

                                                LINELEN=            BUFDESC
                                                LINEADDR=           BUFDESC+4
                                                        .EXTRN  GET_RECORD, LIB_LOG_OP
                                                        .EXTRN  LIB_LOG_UPD, LBR$PUT_RECORD
                                                        .EXTRN  LBR$REPLACE_KEY
                                                        .EXTRN  LBR$LOOKUP_KEY, LBR$INSERT_KEY
                                                        .EXTRN  LBR$DELETE_KEY, LBR$DELETE_DATA
                                                        .EXTRN  LBR$PUT_END, LBR$GL_RMSSTV
                                                        .EXTRN  LIB$GL_KEYSIZE, LIB$GL_CTLMSK
                                                        .EXTRN  LIB$GL_LIBFDB, LIB$GL_INPFDB
                                                        .EXTRN  LIB$GL_LIBCTL, LIB$_INSERTERR
                                                        .EXTRN  LIB$_DELDATERR, LIB$_REPLACED
                                                        .EXTRN  LIB$_INSERTED, LIB$_NOMODNAM
                                                        .EXTRN  LIB$_MODNAMLNG, LIB$_DUPMOD

                                                        .PSECT  $CODE$,NOWRT,2

                                        0FFC 00000      .ENTRY  LIB_INPUT_TXT, Save R2,R3,R4,R5,R6,R7,R8,-      ; 1182
                                                                R9,R10,R11                                      ;
5B 00000000G   8F   D0 00002            MOVL    #LIB$_INSERTERR, R11                                        ;
5A 00000000G   8F   D0 00009            MOVL    #LIB$_DELDATERR, R10                                        ;
59 00000000G   00   9E 00010            MOVAB   LBR$PUT_RECORD, R9                                          ;
```

```
                        58      0000G   CF   9E 00017          MOVAB   LIB$GL_LIBCTL, R8                                ;
                        57  00000000G   00   9E 0001C          MOVAB   LIB$SIGNAL, R7                                  ;
                        56  00000000G   00   9E 00023          MOVAB   LBR$GL_RMSSTV, R6                               ;
                        55      0000'   CF   9E 0002A          MOVAB   MODNAMDESC, R5                                  ;
                        5E              08   C2 0002F          SUBL2   #8, SP                                          ;
              53        0000G   CF           10   C1 00032     ADDL3   #16, LIB$GL_LIBFDB, R3                          ; 1194
                        0000V   CF           00   FB 00038     CALLS   #0, SETMODNAME                                  ; 1197
                        01                   50   E8 0003D     BLBS    STATUS, 1$                                      ;
                                             04   00040         RET                                                     ;
                                    F8       A5   D4 00041 1$:  CLRL    TXTRFA                                          ; 1198
                                    F0       A5   9F 00044     PUSHAB  BUFDESC                                         ; 1204
                        0000G   CF           01   FB 00047     CALLS   #1, GET_RECORD                                  ;
                        54                   50   D0 0004C     MOVL    R0, GET_STATUS                                  ;
                                    F8       A5   9F 0004F     PUSHAB  TXTRFA                                          ; 1205
                                    F0       A5   9F 00052     PUSHAB  BUFDESC                                         ;
                                             58   DD 00055     PUSHL   R8                                              ;
                        69                   03   FB 00057     CALLS   #3, LBR$PUT_RECORD                              ;
                        52                   50   D0 0005A     MOVL    R0, STATUS                                      ;
                        11                   52   E8 0005D     BLBS    STATUS, 2$                                      ;
                                             66   DD 00060     PUSHL   LBR$GL_RMSSTV                                   ; 1206
                                             52   DD 00062     PUSHL   STATUS                                          ;
                                             53   DD 00064     PUSHL   R3                                              ;
                                             01   DD 00066     PUSHL   #1                                              ;
                                008610D2     8F   DD 00068     PUSHL   #8786130                                        ;
                        67                   05   FB 0006E     CALLS   #5, LIB$SIGNAL                                  ;
                0001827A        8F           54   D1 00071 2$:  CMPL    GET_STATUS, #98938                              ; 1208
                                             38   13 00078     BEQL    4$                                              ;
                                    F0       A5   9F 0007A 3$:  PUSHAB  BUFDESC                                         ; 1211
                        0000G   CF           01   FB 0007D     CALLS   #1, GET_RECORD                                  ;
                        54                   50   D0 00082     MOVL    R0, GET_STATUS                                  ;
                0001827A        8F           54   D1 00085     CMPL    GET_STATUS, #98938                              ;
                                             24   13 0008C     BEQL    4$                                              ;
                                    F8       A5   9F 0008E     PUSHAB  TXTRFA                                          ; 1212
                                    F0       A5   9F 00091     PUSHAB  BUFDESC                                         ;
                                             58   DD 00094     PUSHL   R8                                              ;
                        69                   03   FB 00096     CALLS   #3, LBR$PUT_RECORD                              ;
                        52                   50   D0 00099     MOVL    R0, STATUS                                      ;
                        DB                   52   E8 0009C     BLBS    STATUS, 3$                                      ;
                                             66   DD 0009F     PUSHL   LBR$GL_RMSSTV                                   ; 1213
                                             52   DD 000A1     PUSHL   STATUS                                          ;
                                             53   DD 000A3     PUSHL   R3                                              ;
                                             01   DD 000A5     PUSHL   #1                                              ;
                                008610D2     8F   DD 000A7     PUSHL   #8786130                                        ;
                        67                   05   FB 000AD     CALLS   #5, LIB$SIGNAL                                  ;
                                             C8   11 000B0     BRB     3$                                              ; 1212
                                             58   DD 000B2 4$:  PUSHL   R8                                              ; 1219
            00000000G           00           01   FB 000B4     CALLS   #1, LBR$PUT_END                                 ;
                        52                   50   D0 000BB     MOVL    R0, STATUS                                      ;
                        11                   52   E8 000BE     BLBS    STATUS, 5$                                      ;
                                             66   DD 000C1     PUSHL   LBR$GL_RMSSTV                                   ; 1220
                                             52   DD 000C3     PUSHL   STATUS                                          ;
                                             53   DD 000C5     PUSHL   R3                                              ;
                                             01   DD 000C7     PUSHL   #1                                              ;
                                008610D2     8F   DD 000C9     PUSHL   #8786130                                        ;
                        67                   05   FB 000CF     CALLS   #5, LIB$SIGNAL                                  ;
                                             54   D4 000D2 5$:  CLRL    REPLACING                                       ; 1228
          4C    0000G   CF           05   E1 000D4     BBC     #5, LIB$GL_CTLMSK+1, 6$                                 ; 1229
```

```
                4020  8F  BB 000DA          PUSHR   #^M<R5,SP>                      ; 1231
                      58  DD 000DE          PUSHL   R8
00000000G       00        03  FB 000E0      CALLS   #3, LBR$LOOKUP_KEY
                54        50  D0 000E7      MOVL    R0, REPLACING
                    F8    A5  9F 000EA      PUSHAB  TXTRFA                          ; 1232
                    04    AE  9F 000ED      PUSHAB  DELTXTRFA
                          55  DD 000F0      PUSHL   R5
                          58  DD 000F2      PUSHL   R8
00000000G       00        04  FB 000F4      CALLS   #4, LBR$REPLACE_KEY
                52        50  D0 000FB      MOVL    R0, STATUS
                39        52  E9 000FE      BLBC    STATUS, 7$                      ; 1233
                49        54  E9 00101      BLBC    REPLACING, 8$                   ; 1238
                4100  8F  BB 00104          PUSHR   #^M<R8,SP>                      ; 1239
00000000G       00        02  FB 00108      CALLS   #2, LBR$DELETE_DATA
                52        50  D0 0010F      MOVL    R0, STATUS
                38        52  E8 00112      BLBS    STATUS, 8$
                          66  DD 00115      PUSHL   LBR$GL_RMSSTV                   ; 1241
                          52  DD 00117      PUSHL   STATUS
                          53  DD 00119      PUSHL   R3
                          01  DD 0011B      PUSHL   #1
                          5A  DD 0011D      PUSHL   R10
                    67        05  FB 0011F  CALLS   #5, LIB$SIGNAL
                    50        5A  D0 00122  MOVL    R10, R0                         ; 1242
                              04  00125      RET
                    F8    A5  9F 00126  6$: PUSHAB  TXTRFA                          ; 1247
                          55  DD 00129      PUSHL   R5
                          58  DD 0012B      PUSHL   R8
00000000G       00        03  FB 0012D      CALLS   #3, LBR$INSERT_KEY
                52        50  D0 00134      MOVL    R0, STATUS
                13        52  E8 00137      BLBS    STATUS, 8$                      ; 1248
                          66  DD 0013A  7$: PUSHL   LBR$GL_RMSSTV                   ; 1250
                          52  DD 0013C      PUSHL   STATUS
                          53  DD 0013E      PUSHL   R3
                          55  DD 00140      PUSHL   R5
                          02  DD 00142      PUSHL   #2
                          5B  DD 00144      PUSHL   R11
                    67        06  FB 00146  CALLS   #6, LIB$SIGNAL
                    50        5B  D0 00149  MOVL    R11, R0                         ; 1251
                              04  0014C      RET
                          55  DD 0014D  8$: PUSHL   R5                              ; 1255
                    04        54  E9 0014F  BLBC    REPLACING, 9$
                          03  DD 00152      PUSHL   #3
                          02  11 00154      BRB     10$
                          02  DD 00156  9$: PUSHL   #2
              0000G       CF    02  FB 00158 10$: CALLS   #2, LIB_LOG_UPD
                        0000G   CF  DD 0015D  PUSHL   LIB$GL_LIBFDB                  ; 1258
                          55  DD 00161      PUSHL   R5                              ; 1257
                    08        54  E9 00163  BLBC    REPLACING, 11$
                  00000000G   8F  DD 00166  PUSHL   #LIB$_REPLACED
                          06  11 0016C      BRB     12$
                  00000000G   8F  DD 0016E 11$: PUSHL   #LIB$_INSERTED
              0000G       CF    03  FB 00174 12$: CALLS   #3, LIB_LOG_OP
                    50        01  D0 00179  MOVL    #1, R0                          ; 1259
                              04  0017C      RET                                     ; 1260

; Routine Size:  381 bytes,    Routine Base:  $CODE$ + 0000
```

```
;  204          1261  1 ROUTINE setmodname =
;  205          1262  2 BEGIN
;  206          1263  2 !
;  207          1264  2 ! This routine extracts the file name of the current input file
;  208          1265  2 ! and saves it for entering the module name into the library.
;  209          1266  2 !
;  210          1267  2 BIND
;  211          1268  2     modulename = lib$gl_inpfdb [fdb$l_modnam] : BBLOCK,
;  212          1269  2     libdesc = lib$gl_libfdb [fdb$l_namdesc] : BBLOCK,
;  213          1270  2     inpdesc = lib$gl_inpfdb [fdb$l_namdesc] : BBLOCK,
;  214          1271  2     inpstring = .inpdesc [dsc$a_pointer] : VECTOR [,BYTE];
;  215          1272  2 LOCAL
;  216          1273  2     modascic : VECTOR [lbr$c_pagesize, BYTE],
;  217          1274  2     j, k;
;  218          1275  2
;  219          1276  2 IF .modulename [dsc$w_length] NEQ 0                    !Specified by command
;  220          1277  3 THEN BEGIN
;  221          1278  3     modnamdesc [dsc$w_length] = .modulename [dsc$w_length];
;  222          1279  3     modnamdesc [dsc$a_pointer] = .modulename [dsc$a_pointer];
;  223          1280  3     END
;  224          1281  3 ELSE BEGIN
;  225          1282  3     j = k = -1;
;  226          1283  3     DECR i FROM .inpdesc [dsc$w_length]-1 TO 0 DO
;  227          1284  4         BEGIN
;  228          1285  4             IF .inpstring [.i] EQL %C'.' THEN EXITLOOP j = .i;
;  229          1286  3             END;
;  230          1287  3     DECR i FROM .j-1 TO 0 DO
;  231          1288  4         BEGIN
;  232          1289  5             IF (.inpstring [.i] EQL %C']') OR (.inpstring [.i] EQL %C'>')
;  233          1290  4             THEN EXITLOOP k = .i + 1;
;  234          1291  3             END;
;  235          1292  3
;  236          1293  3     modnamdesc [dsc$w_length] = .j - .k;
;  237          1294  3     modnamdesc [dsc$a_pointer] = inpstring [.k];
;  238          1295  2     END;
;  239          1296  2
;  240          1297  2 modascic [0] = .modnamdesc [dsc$w_length];
;  241          1298  2 CH$MOVE (.modascic [0], .modnamdesc [dsc$a_pointer], modascic [1]);
;  242          1299  2 IF .modnamdesc [dsc$w_length] EQL 0
;  243          1300  3 THEN BEGIN
;  244          1301  3     SIGNAL (lib$_nomodnam, 1, inpdesc);
;  245          1302  3     RETURN lib$_nomodnam;
;  246          1303  3     END
;  247          1304  2 ELSE IF .modnamdesc [dsc$w_length] GTRU .lib$gl_keysize
;  248          1305  3 THEN BEGIN
;  249          1306  3     SIGNAL (lib$_modnamlng, 3, modascic, .modnamdesc [dsc$w_length], inpdesc);
;  250          1307  3     RETURN lib$_modnamlng;
;  251          1308  2     END;
;  252          1309  2 IF NOT .lib$gl_ctlmsk [lib$v_replace]
;  253          1310  2     AND lbr$lookup_key (lib$gl_libctl, modnamdesc, txtrfa)
;  254          1311  3     THEN BEGIN
;  255          1312  3         SIGNAL (lib$_dupmod, 3, modascic, inpdesc  libdesc);
;  256          1313  3         RETURN false;
;  257          1314  2         END;
;  258          1315  2
;  259          1316  2 RETURN true
;  260          1317  1 END;
```

```
                                 OFFC 00000 SETMODNAME:
                                                    .WORD   Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11        ; 1261
                          5B 00000000G   8F   D0 00002      MOVL    #LIB$_NOMODNAM, R11                 ;
                          5A 00000000G   00   9E 00009      MOVAB   LIB$SIGNAL, R10                     ;
                          59     0000'   CF   9E 00010      MOVAB   MODNAMDESC, R9                      ;
                          5E     FE00    CE   9E 00015      MOVAB   -512(SP), SP                        ;
                50  0000G   CF            18   C1 0001A      ADDL3   #24, LIB$GL_INPFDB, R0              ; 1268
                58  0000G   CF            10   C1 00020      ADDL3   #16, LIB$GL_LIBFDB, R8              ; 1269
                56  0000G   CF            10   C1 00026      ADDL3   #16, LIB$GL_INPFDB, R6              ; 1270
                                          60   B5 0002C      TSTW    (R0)                                ; 1276
                                          0A   13 0002E      BEQL    1$                                  ;
                          69              60   B0 00030      MOVW    (R0), MODNAMDESC                    ; 1278
                    04    A9        04    A0   D0 00033      MOVL    4(R0), MODNAMDESC+4                 ; 1279
                                          41   11 00038      BRB     9$                                  ; 1276
                          51              01   CE 0003A 1$:   MNEGL   #1, K                             ; 1282
                          52              01   CE 0003D      MNEGL   #1, J                               ;
                          50              66   3C 00040      MOVZWL  (R6), I                             ; 1283
                                          0C   11 00043      BRB     3$                                  ;
                          2E        04 B640   91   00045 2$:   CMPB    @4(R6)[I], #46                      ; 1285
                                          05   12 0004A      BNEQ    3$                                  ;
                          52              50   D0 0004C      MOVL    I, J                                ;
                                          03   11 0004F      BRB     4$                                  ;
                          F1              50   F4 00051 3$:   SOBGEQ  I, 2$                            ; 1283
                          50              52   D0 00054 4$:   MOVL    J, I                                ; 1287
                                          15   11 00057      BRB     7$                                  ;
                    5D    8F        04 B640   91   00059 5$:   CMPB    @4(R6)[I], #93                      ; 1289
                                          07   13 0005F      BEQL    6$                                  ;
                          3E        04 B640   91   00061      CMPB    @4(R6)[I], #62                      ;
                                          06   12 00066      BNEQ    7$                                  ;
                          51        01    A0   9E 00068 6$:   MOVAB   1(R0), K                           ; 1290
                                          03   11 0006C      BRB     8$                                  ;
                          E8              50   F4 0006E 7$:   SOBGEQ  I, 5$                            ; 1287
                69        52              51   A3 00071 8$:   SUBW3   K, J, MODNAMDESC                   ; 1293
                    04    A9        04 B641   9E   00075      MOVAB   @4(R6)[K], MODNAMDESC+4             ; 1294
                          57              69   3C 0007B 9$:   MOVZWL  MODNAMDESC, R7                     ; 1297
                          6E              57   90 0007E      MOVB    R7, MODASCIC                        ;
                          50              6E   9A 00081      MOVZBL  MODASCIC, R0                        ; 1298
01  AE        04    B9                    50   28 00084      MOVC3   R0, @MODNAMDESC+4, MODASCIC+1       ;
                                          57   D5 0008A      TSTL    R7                                  ; 1299
                                          0D   12 0008C      BNEQ    10$                                 ;
                                          56   DD 0008E      PUSHL   R6                                  ; 1301
                                          01   DD 00090      PUSHL   #1                                  ;
                                          5B   DD 00092      PUSHL   R11                                 ;
                          6A              03   FB 00094      CALLS   #3, LIB$SIGNAL                      ;
                          50              5B   D0 00097      MOVL    R11, R0                             ; 1302
                                          04   0009A      RET                                         ;
                0000G     CF            57   D1 0009B 10$:   CMPL    R7, LIB$GL_KEYSIZE                  ; 1304
                                          1A   1B 000A0      BLEQU   11$                                 ;
                                          56   DD 000A2      PUSHL   R6                                  ; 1306
                                          57   DD 000A4      PUSHL   R7                                  ;
                                    08    AE   9F 000A6      PUSHAB  MODASCIC                            ;
                                          03   DD 000A9      PUSHL   #3                                  ;
```

```
                                00000000G   8F   DD 000AB          PUSHL   #LIB$_MODNAMLNG                          ;
                                        6A      05 000B1          CALLS   #5, LIB$SIGNAL                          ;
                                        50 00000000G   8F   D0 000B4          MOVL    #LIB$_MODNAMLNG, R0             ; 1307
                                                       04 000BB          RET                                     ;
                    27      0000G   CF              05   E0 000BC 11$:     BBS     #5, LIB$GL_CTLMSK+1, 12$        ; 1309
                                                F8   A9   9F 000C2          PUSHAB  TXTRFA                          ; 1310
                                                59   DD 000C5          PUSHL   R9                              ;
                                            0000G   CF   9F 000C7          PUSHAB  LIB$GL_LIBCTL                   ;
                        00000000G   00              03   FB 000CB          CALLS   #3, LBR$LOOKUP_KEY              ;
                                        14          50   E9 000D2          BLBC    R0, 12$                         ;
                                              0140   8F   BB 000D5          PUSHR   #^M<R6,R8>                      ; 1312
                                                08   AE   9F 000D9          PUSHAB  MODASCIC                        ;
                                                03   DD 000DC          PUSHL   #3                              ;
                                00000000G   8F   DD 000DE          PUSHL   #LIB$_DUPMOD                    ;
                                        6A      05   FB 000E4          CALLS   #5, LIB$SIGNAL                  ;
                                                04   11 000E7          BRB     13$                             ; 1313
                                        50      01   D0 000E9 12$:     MOVL    #1, R0                          ; 1316
                                                04   000EC          RET                                     ;
                                                50   D4 000ED 13$:     CLRL    R0                              ; 1317
                                                04   000EF          RET                                     ;

; Routine Size:  240 bytes,    Routine Base:  $CODE$ + 017D

;  261          1318  1
;  262          1319  1 END
;  263          1320  0 ELUDOM

                                                                .EXTRN  LIB$SIGNAL

;                                       PSECT SUMMARY

;     Name                              Bytes                           Attributes

;  $OWN$                                  24  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $CODE$                                621  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        25         0       581          00:01.0


;                                       COMMAND QUALIFIERS
```

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

; Size:         621 code + 24 data bytes
; Run Time:        00:20.5
; Elapsed Time:    00:43.5
; Lines/CPU Min:    3861
; Lexemes/CPU-Min: 43161
; Memory Used:  200 pages
; Compilation Complete
```

GETCMD
LIS

INPUTOBJ
LIS

INPUTTXT
LIS

LIBRARIAN
LIS

INPUTMAC
LIS

INPUTHLP
LIS