```
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      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     AAAAAAAAAAAAAA  RRR    RRR
LLL                  III      BBB       BBB  RRR    RRR     AAAAAAAAAAAAAA  RRR    RRR
LLL                  III      BBB       BBB  RRR    RRR     AAAAAAAAAAAAAA  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
```

DATABASE

LIS

LIB_DATABASE

E 14
16-Sep-1984 01:49:50   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:59   [LIBRAR.SRC]DATABASE.B32;1

Page 1
(1)

LIB
V04

```
    1      0001   0 MODULE LIB_DATABASE (                          ! Data base for librarian command processor
    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 !*                                                                          *
   10      0010   1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                 *
   11      0011   1 !*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                  *
   12      0012   1 !*  ALL RIGHTS RESERVED.                                                    *
   13      0013   1 !*                                                                          *
   14      0014   1 !*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED   *
   15      0015   1 !*  ONLY IN  ACCORDANCE WITH  THE  TERMS  OF  SUCH  LICENSE  AND WITH THE   *
   16      0016   1 !*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR  ANY  OTHER   *
   17      0017   1 !*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY   *
   18      0018   1 !*  OTHER PERSON.  NO TITLE TO AND OWNERSHIP OF  THE  SOFTWARE IS  HEREBY   *
   19      0019   1 !*  TRANSFERRED.                                                            *
   20      0020   1 !*                                                                          *
   21      0021   1 !*  THE INFORMATION IN THIS SOFTWARE IS  SUBJECT TO CHANGE WITHOUT NOTICE   *
   22      0022   1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
   23      0023   1 !*  CORPORATION.                                                            *
   24      0024   1 !*                                                                          *
   25      0025   1 !*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE  OR  RELIABILITY OF ITS   *
   26      0026   1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                 *
   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: Benn Schreiber,        CREATION DATE:  12-June-1979
   49      0049   1 !
   50      0050   1 ! MODIFIED BY:
   51      0051   1 !
   52      0052   1 !     V03-001         GJA0071         Greg Awdziewicz         6-Mar-1984
   53      0053   1 !             Allow text & shareable image libraries' keys to be as
   54      0054   1 !             long as filenames.
   55      0055   1 !
   56      0056   1 !     V02-005         RPG0045         Bob Grosso      7-Aug-1981
   57      0057   1 !             Support for /BEFORE and /SINCE
```

LIB_DATABASE
V04-000

F 14
16-Sep-1984 01:49:50   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:59   [LIBRAR.SRC]DATABASE.B32;1

Page   2
      (1)

LIB
V04

```
  58        0058   1 !          lib$gl_ctlmdk now a quadword
  59        0059   1 !
  60        0060   1 !   V02-004         RPG0044         Bob Grosso       21-Jul-1981
  61        0061   1 !          Support tparsing of create/compress options.
  62        0062   1 !
  63        0063   1 !   V02-003         RPG0036         Bob Grosso       4-Jun-1981
  64        0064   1 !          Modify create options for HISTORY.
  65        0065   1 !
  66        0066   1 !   V02-002         RPG0035         Bob Grosso       16-Apr-1981
  67        0067   1 !          Add listhead for update history module names.
  68        0068   1 !
  69        0069   1 !   V02-001 BLS0029         Benn Schreiber           23-Dec-1980
  70        0070   1 !          Add shareable image symbol table library
  71        0071   1 !--
  72        0072   1
  73        0073   1
```

LIB_DATABASE
V04=000

G 14
16-Sep-1984 01:49:50   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:59   [LIBRAR.SRC]DATABASE.B32;1

Page 3
     (2)

LIB
V04

```
 75        0074  1 LIBRARY
 76        0075  1         'SYS$LIBRARY:STARLET.L32';    !System data structures
 77        0076  1 REQUIRE
 78        0077  1         'PREFIX';                     !Macro definitions
 79        0261  1 REQUIRE
 80        0262  1         'LIBDEF';                     !Librarian structure defs.
 81        0550  1 REQUIRE
 82        0551  1         'LBRDEF';                     !Library processor defs.
 83        1142  1
 84        1143  1 EXTERNAL ROUTINE
 85        1144  1         lib_delete_obj,               !Delete an object module
 86        1145  1         lib_delete_mac,               !Delete a macro module
 87        1146  1         lib_delete_hlp,               !Delete a help module
 88        1147  1         lib_delete_txt,               !Delete a text module
 89        1148  1         lib_input_obj,                !Input an object file
 90        1149  1         lib_input_mac,                !Input a macro file
 91        1150  1         lib_input_hlp,                !Input a help file
 92        1151  1         lib_input_txt;                !Input a text file
 93        1152  1 !
 94        1153  1 ! Global data
 95        1154  1 !
 96        1155  1 GLOBAL
 97        1156  1         lib$before_date : BLOCK [2],  !date from /BEFORE
 98        1157  1         lib$since_date : BLOCK [2],    !date from /SINCE
 99        1158  1         lib$al_rab : $RAB (),         !RAB for I/O
100        1159  1         lib$gl_modnamix : INITIAL (1),  !Index number for module names
101        1160  1         lib$gl_objgsdix : INITIAL (2),  !Index number for object gsd names
102        1161  1         lib$gl_recount,               !Count of records inserted
103        1162  1         lib$gl_keysize,               !Max length of keys in current library
104        1163  1         lib$gl_listwid,               !Width of listing line from /WIDTH
105        1164  1         lib$gl_libctl,                !Library control index
106        1165  1         lib$gl_ctlmsk : BLOCK [2],    !Librarian control mask
107        1166  1         lib$gl_tmpfdb : REF BBLOCK,   !Temporary FDB pointer
108        1167  1         lib$gl_libfdb : REF BBLOCK,   !Pointer to library FDB
109        1168  1         lib$gl_outfdb : REF BBLOCK,   !Pointer to output FDB
110        1169  1         lib$gl_inpfdb  : REF BBLOCK,  !Pointer to current input FDB
111        1170  1         lib$gl_inplist : REF BBLOCK,  !Pointer to input list FDB's
112        1171  1         lib$gl_lisfdb : REF BBLOCK,   !Pointer to listing file FDB
113        1172  1         lib$gl_modupdl : VECTOR [2],  !Listhead for library update history module list
114        1173  1         lib$gl_modlisl : VECTOR [2],  !Listhead for "list only" module list
115        1174  1         lib$gl_modxtrl : VECTOR [2],  !Listhead for module extraction list
116        1175  1         lib$gl_objsyrml : VECTOR [2], !Listhead for symbols to remove from
117        1176  1                                       ! object library
118        1177  1         lib$gl_delmodl : VECTOR [2],  !Listhead for module names to delete
119        1178  1         lib$gl_cre8flags,             !Flags bitvector indicates which options set by create
120        1179  1         lib$al_creopts : VECTOR [6, LONG]  !Options specifiable with /CREATE
121        1180  1                     INITIAL  (lib$c_defblks,! number of blocks
122        1181  1                               lib$c_defgbls,! number of global symbols (object libraries)
123        1182  1                               lib$c_defmods,! number of module names
124        1183  1                               0,           ! keysize
125        1184  1                               lib$c_defluhrec,! number of library update history records
126        1185  1                               lib$c_defvertyp),! version number of library
127        1186  1 !
128        1187  1 ! Table of month names as pointers to ASCIC strings
129        1188  1 !
130        1189  1         lib$al_months : VECTOR [12, LONG] INITIAL
131        1190  1              (CSTRING ('JAN'),
```

LIB_DATABASE
V04-000

H 14
16-Sep-1984 01:49:50   VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:37:59   [LIBRAR.SRC]DATABASE.B32;1

Page 4
     (2)

LIB
V04

```
 132    1191   1              CSTRING ('FEB'),
 133    1192   1              CSTRING ('MAR'),
 134    1193   1              CSTRING ('APR'),
 135    1194   1              CSTRING ('MAY'),
 136    1195   1              CSTRING ('JUN'),
 137    1196   1              CSTRING ('JUL'),
 138    1197   1              CSTRING ('AUG'),
 139    1198   1              CSTRING ('SEP'),
 140    1199   1              CSTRING ('OCT'),
 141    1200   1              CSTRING ('NOV'),
 142    1201   1              CSTRING ('DEC')),
 143    1202   1      !
 144    1203   1      ! Default filename extensions for input files of different library types
 145    1204   1      !     (***** DO NOT CHANGE THE ORDER OF THE FOLLOWING*****)
 146    1205   1      !
 147    1206   1          lib_obj_defext : BBLOCK [dsc$c_s_bln * 2]   !String descriptor for object library
 148    1207   1                      INITIAL (STRINGDESC ('.OLB'),
 149    1208   1                          STRINGDESC ('.OBJ'))
 150    1209   1          lib_mac_defext : BBLOCK [dsc$c_s_bln * 2]   !String descriptor for macro library
 151    1210   1                      INITIAL (STRINGDESC ('.MLB'),
 152    1211   1                          STRINGDESC ('.MAR'))
 153    1212   1          lib_hlp_defext : BBLOCK [dsc$c_s_bln * 2]   !String descriptor for help library
 154    1213   1                      INITIAL (STRINGDESC ('.HLB'),
 155    1214   1                          STRINGDESC ('.HLP'))
 156    1215   1          lib_txt_defext : BBLOCK [dsc$c_s_bln * 2]   !String descriptor for text library
 157    1216   1                      INITIAL (STRINGDESC ('.TLB'),
 158    1217   1                          STRINGDESC ('.TXT'))
 159    1218   1          lib_shr_defext : BBLOCK [dsc$c_s_bln * 2]   !String descriptor for shareable
 160    1219   1                      INITIAL (STRINGDESC ('.OLB'),   ! image symbol table library
 161    1220   1                          STRINGDESC ('.EXE')),
 162    1221   1      !
 163    1222   1      ! Other global data
 164    1223   1      !
 165    1224   1          lib$al_typnames : VECTOR [lbr$c_typ_decmx + 2, LONG] !Names of library types
 166    1225   1                      INITIAL (CSTRING ('UNKNOWN'),
 167    1226   1                          CSTRING ('OBJECT'),
 168    1227   1                          CSTRING ('MACRO'),
 169    1228   1                          CSTRING ('HELP'),
 170    1229   1                          CSTRING ('TEXT'),
 171    1230   1                          CSTRING ('SHAREABLE IMAGE SYMBOL TABLE'),
 172    1231   1                          CSTRING ('USER DEFINED')),
 173    1232   1          lib$gl_type,                        !Type of library (from command)
 174    1233   1          lib$al_ascbinf : VECTOR [lbr$c_typ_decmx + 1, LONG] !Binary/ASCII index flags
 175    1234   1                      INITIAL (0,                 !0 - not used
 176    1235   1                          sym$c_maxlng,           !Object libraries
 177    1236   1                          sym$c_maxlng,           !Macro libraries
 178    1237   1                          lib$c_shortsym,         !Help text libraries
 179    1238   1                          lib$c_filename_length,  !TEXT libraries
 180    1239   1                          lib$c_filename_length), !Shr img symbol table libraries
 181    1240   1          lib$al_hdrlen : VECTOR [lbr$c_typ_decmx + 1, LONG] !Mod. hdr. extra data length
 182    1241   1                      INITIAL (0, sym$c_maxlng + 2, 0, 0, 0, sym$c_maxlng+2),
 183    1242   1          lib$al_idxopt : VECTOR [lbr$c_typ_decmx + 1, LONG]     ! Index options
 184    1243   1              INITIAL (0,cre$c_objcasing, cre$c_mactxtcas, cre$c_hlpcasing,
 185    1244   1                  cre$c_mactxtcas,cre$c_objcasing),      ! Unused, object, macro, hlp, text, shstb
 186    1245   1          lib$al_numidx : VECTOR [lbr$c_typ_decmx + 1, LONG] !Number of indices
 187    1246   1              INITIAL (0, 2, 1, 1, 1, 2);       !Unused,object,macro,hlp,TEXT,shr stb
 188    1247   1 GLOBAL BIND
```

; R

LIB_DATABASE
V04-000

I 14
16-Sep-1984 01:49:50   VAX-11 Bliss-32 V4.0-742   Page   5
14-Sep-1984 12:37:59   [LIBRAR.SRC]DATABASE.B32;1   (2)

LIB
V04

```
 189   1248  1         lib$al_inpdspat = PLIT (
 190   1249  1                         0,                              !0 - not used
 191   1250  1                         lib_input_obj,                  !object
 192   1251  1                         lib_input_mac,                  !macro
 193   1252  1                         lib_input_hlp,                  !help
 194   1253  1                         lib_input_txt,                  !TEXT
 195   1254  1                         lib_input_obj                   !Shareable image stb
 196   1255  1                         ),
 197   1256  1         lib$al_deldspat = PLIT (
 198   1257  1                         0,                              ! not used
 199   1258  1                         lib_delete_obj,                 !object
 200   1259  1                         lib_delete_mac,                 !macro
 201   1260  1                         lib_delete_hlp,                 !help
 202   1261  1                         lib_delete_txt,                 !text
 203   1262  1                         lib_delete_obj                  !Shareable image stb
 204   1263  1                         ),
 205   1264  1         lib$gl_allblks  = lib$al_creopts [lib$c_opt_blks],  !Number of blocks to allocate for file
 206   1265  1         lib$gl_allgbls  = lib$al_creopts [lib$c_opt_gbls],  !Number of global symbols to allocate
 207   1266  1         lib$gl_allmods  = lib$al_creopts [lib$c_opt_mods],  !Number of modules to allocate
 208   1267  1         lib$gl_allksz   = lib$al_creopts [lib$c_opt_ksz],   !Key size of entries
 209   1268  1         lib$gl_allhis   = lib$al_creopts [lib$c_opt_luhs],  !Number of library update history records
 210   1269  1         lib$gl_allver   = lib$al_creopts [lib$c_opt_ver],   !Version type of library
 211   1270  1         lib$gl_objmodix = lib$gl_modnamix,              !object module name index
 212   1271  1         lib$gl_macmodix = lib$gl_modnamix,              !macro module name index
 213   1272  1         lib$gl_hlpmodix = lib$gl_modnamix,              !help module name index
 214   1273  1         lib$gl_txtmodix = lib$gl_modnamix;              !text module name index
 215   1274  1
 216   1275  1 END                                                    ! Of module
 217   1276  0 ELUDOM


                                       .TITLE  LIB_DATABASE
                                       .IDENT  \V04-000\

                                       .PSECT  $PLIT$,NOWRT,NOEXE,2

                          03  00000 P.AAA:  .BYTE   3
                 4E  41  4A  00001          .ASCII  \JAN\
                          03  00004 P.AAB:  .BYTE   3
                 42  45  46  00005          .ASCII  \FEB\
                          03  00008 P.AAC:  .BYTE   3
                 52  41  4D  00009          .ASCII  \MAR\
                          03  0000C P.AAD:  .BYTE   3
                 52  50  41  0000D          .ASCII  \APR\
                          03  00010 P.AAE:  .BYTE   3
                 59  41  4D  00011          .ASCII  \MAY\
                          03  00014 P.AAF:  .BYTE   3
                 4E  55  4A  00015          .ASCII  \JUN\
                          03  00018 P.AAG:  .BYTE   3
                 4C  55  4A  00019          .ASCII  \JUL\
                          03  0001C P.AAH:  .BYTE   3
                 47  55  41  0001D          .ASCII  \AUG\
                          03  00020 P.AAI:  .BYTE   3
                 50  45  53  00021          .ASCII  \SEP\
                          03  00024 P.AAJ:  .BYTE   3
                 54  43  4F  00025          .ASCII  \OCT\
                          03  00028 P.AAK:  .BYTE   3
```

LIB_DATABASE
V04-000

J 14
16-Sep-1984 01:49:50   VAX-11 Bliss-32 V4.0-742   Page 6
14-Sep-1984 12:37:59   [LIBRAR.SRC]DATABASE.B32;1   (2)

LIB
V04

```
                          56   4F   4E   00029          .ASCII    \NOV\
                                    03   0002C P.AAL:   .BYTE     3
                          43   45   44   0002D          .ASCII    \DEC\
                     42   4C   4F   2E   00030 P.AAM:   .ASCII    \.OLB\
                     4A   42   4F   2E   00034 P.AAN:   .ASCII    \.OBJ\
                     42   4C   4D   2E   00038 P.AAO:   .ASCII    \.MLB\
                     52   41   4D   2E   0003C P.AAP:   .ASCII    \.MAR\
                     42   4C   48   2E   00040 P.AAQ:   .ASCII    \.HLB\
                     50   4C   48   2E   00044 P.AAR:   .ASCII    \.HLP\
                     42   4C   54   2E   00048 P.AAS:   .ASCII    \.TLB\
                     54   58   54   2E   0004C P.AAT:   .ASCII    \.TXT\
                     42   4C   4F   2E   00050 P.AAU:   .ASCII    \.OLB\
                     45   58   45   2E   00054 P.AAV:   .ASCII    \.EXE\
                                    07   00058 P.AAW:   .BYTE     7
           4E   57   4F   4E   4B   4E   55   00059      .ASCII    \UNKNOWN\
                                    06   00060 P.AAX:   .BYTE     6
                54   43   45   4A   42   4F   00061      .ASCII    \OBJECT\
                                    05   00067 P.AAY:   .BYTE     5
                          4F   52   43   41   4D   00068 .ASCII    \MACRO\
                                    04   0006D P.AAZ:   .BYTE     4
                          50   4C   45   48   0006E      .ASCII    \HEL⌐\
                                    04   00072 P.ABA:   .BYTE     4
                          54   58   45   54   00073      .ASCII    \TEXT\
                                    1C   00077 P.ABB:   .BYTE     28
45  47  41  4D  49  20  45  4C  42  41  45  52  41  48  53  00078  .ASCII  \SHAREABLE IMAGE SYMBOL TABLE\
45  4C  42  41  54  20  4C  4F  42  4D  59  53  20  00087
                                    0C   00094 P.ABC:   .BYTE     12
           44   45   4E   49   46   45   44   20   52   45   53   55   00095  .ASCII  \USER DEFINED\
                                         000A1          .BLKB     3
                               00000006   000A4          .LONG     6
                               00000000   000A8 P.ABD:  .LONG     0
   00000000G 00000000G 00000000G 00000000G 00000000G 000AC   .ADDRESS LIB_INPUT_OBJ, LIB_INPUT_MAC, -
                                                             LIB_INPUT_ALP, LIB_INPUT_TXT, -
                                                             LIB_INPUT_OBJ
                               00000006   000C0          .LONG     6
                               00000000   000C4 P.ABE:  .LONG     0
   00000000G 00000000G 00000000G 00000000G 00000000G 000C8   .ADDRESS LIB_DELETE_OBJ, LIB_DELETE_MAC, -
                                                             LIB_DELETE_ALP, LIB_DELETE_TXT, -
                                                             LIB_DELETE_OBJ

                                                      .PSECT   $GLOBAL$,NOEXE,2

                               00000 LIB$BEFORE_DATE::
                                                      .BLKB     8
                               00008 LIB$SINCE_DATE::
                                                      .BLKB     8
                                    01   00010 LIB$AL_RAB::
                                                      .BYTE     1
                                    44   00011          .BYTE     68
                                  0000   00012          .WORD     0
                              00000000   00014          .LONG     0
                              00000000   00018          .LONG     0
                              00000000   0001C          .LONG     0
                                  0000#  00020          .WORD     0[3]
                                  0000   00026          .WORD     0
                              00000000   00028          .LONG     0
                                  0000   0002C          .WORD     0
```

; R

```
                        00    0002E              .BYTE    0
                        00    0002F              .BYTE    0
                      0000    00030              .WORD    0
                      0000    00032              .WORD    0
                  00000000    00034              .LONG    0
                  00000000    00038              .LONG    0
                  00000000    0003C              .LONG    0
                  00000000    00040              .LONG    0
                        00    00044              .BYTE    0
                        00    00045              .BYTE    0
                        00    00046              .BYTE    0
                        00    00047              .BYTE    0
                  00000000    00048              .LONG    0
                  00000000    0004C              .LONG    0
                  00000000    00050              .LONG    0
                  00000001    00054 LIB$GL_MODNAMIX::
                                                 .LONG    1
                  00000002    00058 LIB$GL_OBJGSDIX::
                                                 .LONG    2
                              0005C LIB$GL_RECOUNT::
                                                 .BLKB    4
                              00060 LIB$GL_KEYSIZE::
                                                 .BLKB    4
                              00064 LIB$GL_LISTWID::
                                                 .BLKB    4
                              00068 LIB$GL_LIBCTL::
                                                 .BLKB    4
                              0006C LIB$GL_CTLMSK::
                                                 .BLKB    8
                              00074 LIB$GL_TMPFDB::
                                                 .BLKB    4
                              00078 LIB$GL_LIBFDB::
                                                 .BLKB    4
                              0007C LIB$GL_OUTFDB::
                                                 .BLKB    4
                              00080 LIB$GL_INPFDB::
                                                 .BLKB    4
                              00084 LIB$GL_INPLIST::
                                                 .BLKB    4
                              00088 LIB$GL_LISFDB::
                                                 .BLKB    4
                              0008C LIB$GL_MODUPDL::
                                                 .BLKB    8
                              00094 LIB$GL_MODLISL::
                                                 .BLKB    8
                              0009C LIB$GL_MODXTRL::
                                                 .BLKB    8
                              000A4 LIB$GL_OBJSYRML::
                                                 .BLKB    8
                              000AC LIB$GL_DELMODL::
                                                 .BLKB    8
                              000B4 LIB$GL_CRE8FLAGS::
                                                 .BLKB    4
00000003 00000014 00000000 00000080 00000200 00000064  000B8 LIB$AL_CREOPTS::
                                                 .LONG    100, 512, 128, 0, 20, 3
00000000' 00000000' 00000000' 00000000' 00000000' 00000000'  000D0 LIB$AL_MONTHS::
                                                 .ADDRESS P.AAA, P.AAB, P.AAC, P.AAD, P.AAE, -
```

LIB_DATABASE   L 14
V04=000   16-Sep-1984 01:49:50   VAX-11 Bliss-32 V4.0-742   Page 8
                                        14-Sep-1984 12:37:59   [LIBRAR.SRC]DATABASE.B32;1   (2)

LIB
V04

```
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 000E8                    P.AAF, P.AAG, P.AAH, P.AAI, P.AAJ, P.AAK, -
                                                                                      P.AAL
                                                  00000004  00100 LIB_OBJ_DEFEXT::
                                                                      .LONG    4
                                                  00000000' 00104      .ADDRESS P.AAM
                                                  00000004  00108      .LONG    4
                                                  00000000' 0010C      .ADDRESS P.AAN
                                                  00000004  00110 LIB_MAC_DEFEXT::
                                                                      .LONG    4
                                                  00000000' 00114      .ADDRESS P.AAO
                                                  00000004  00118      .LONG    4
                                                  00000000' 0011C      .ADDRESS P.AAP
                                                  00000004  00120 LIB_HLP_DEFEXT::
                                                                      .LONG    4
                                                  00000000' 00124      .ADDRESS P.AAQ
                                                  00000004  00128      .LONG    4
                                                  00000000' 0012C      .ADDRESS P.AAR
                                                  00000004  00130 LIB_TXT_DEFEXT::
                                                                      .LONG    4
                                                  00000000' 00134      .ADDRESS P.AAS
                                                  00000004  00138      .LONG    4
                                                  00000000' 0013C      .ADDRESS P.AAT
                                                  00000004  00140 LIB_SHR_DEFEXT::
                                                                      .LONG    4
                                                  00000000' 00144      .ADDRESS P.AAU
                                                  00000004  00148      .LONG    4
                                                  00000000' 0014C      .ADDRESS P.AAV
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00150 LIBSAL_TYPNAMES::
                                                                      .ADDRESS P.AAW, P.AAX, P.AAY, P.AAZ, P.ABA, -
                                                  00000000' 00168                     P.ABB, P.ABC
                                                            0016C LIB$GL_TYPE::
                                                                      .BLKB    4
00000027  00000027  0000000F  0000001F  0000001F  00000000  00170 LIB$AL_ASCBINF::
                                                                      .LONG    0, 31, 31, 15, 39, 39
00000021  00000000  00000000  00000000  00000021  00000000  00188 LIB$AL_HDRLEN::
                                                                      .LONG    0, 33, 0, 0, 0, 33
00000003  00000000  00000006  00000000  00000003  00000000  001A0 LIB$AL_IDXOPT::
                                                                      .LONG    0, 3, 0, 6, 0, 3
00000002  00000001  00000001  00000001  00000002  00000000  001B8 LIB$AL_NUMIDX::
                                                                      .LONG    0, 2, 1, 1, 1, 2

                                                                  LIB$AL_INPDSPAT==    P.ABD
                                                                  LIB$AL_DELDSPAT==    P.ABE
                                                                  LIB$GL_ALLBLKS==     LIB$AL_CREOPTS
                                                                  LIB$GL_ALLGBLS==     LIB$AL_CREOPTS+4
                                                                  LIB$GL_ALLMODS==     LIB$AL_CREOPTS+8
                                                                  LIB$GL_ALLKSZ==      LIB$AL_CREOPTS+12
                                                                  LIB$GL_ALLHIS==      LIB$AL_CREOPTS+16
                                                                  LIB$GL_ALLVER==      LIB$AL_CREOPTS+20
                                                                  LIB$GL_OBJMODIX==    LIB$GL_MODNAMIX
                                                                  LIB$GL_MACMODIX==    LIB$GL_MODNAMIX
                                                                  LIB$GL_HLPMODIX==    LIB$GL_MODNAMIX
                                                                  LIB$GL_TXTMODIX==    LIB$GL_MODNAMIX
                                                                      .EXTRN  LIB_DELETE_OBJ, LIB_DELETE_MAC
                                                                      .EXTRN  LIB_DELETE_HLP, LIB_DELETE_TXT
                                                                      .EXTRN  LIB_INPUT_OBJ, LIB_INPUT_MAC
                                                                      .EXTRN  LIB_INPUT_HLP, LIB_INPUT_TXT
```

```
;                           PSECT SUMMARY
;
;            Name                Bytes                         Attributes
;
;     $GLOBAL$                   464  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;     $PLIT$                     220  NOVEC,NOWRT,  RD ,NOEXE,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     35       0       581      00:01.0
;
;
;
;                         COMMAND QUALIFIERS
;
;         BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:DATABASE/OBJ=OBJ$:DATABASE MSRC$:DATABASE/UPDATE=(ENH$:DATABASE)
;
; Size:          0 code + 684 data bytes
; Run Time:         00:16.4
; Elapsed Time:     00:34.7
; Lines/CPU Min:    4668
; Lexemes/CPU-Min: 54629
; Memory Used:  149 pages
; Compilation Complete
```

TRANSFER
LIS

DATABASE
LIS

PUTCACHE
LIS

LIBRAR

PREFIX
REQ

LIBRARIAN
MAP

CROSS
LIS

SUBS
LIS

FILEIO
LIS

PADLBR
LIS

COMPRESS
LIS

EXTRACT
LIS

LIB
MDL

DELETE
LIS