


```

DDDDDDDD      EEEEEEEEEE  LL      EEEEEEEEEE  TTTTTTTTTT  EEEEEEEEEE
DDDDDDDD      EEEEEEEEEE  LL      EEEEEEEEEE  TTTTTTTTTT  EEEEEEEEEE
DD      DD     EE          LL      EE          TT          EE          .....
DD      DD     EE          LL      EE          TT          EE          .....
DD      DD     EE          LL      EE          TT          EE          .....
DD      DD     EE          LL      EE          TT          EE          .....
DD      DD     EE          LL      EE          TT          EE          .....
DD      DD     EE          LL      EE          TT          EE          .....
DD      DD     EE          LL      EE          TT          EE          .....
DD      DD     EE          LL      EE          TT          EE          .....
DD      DD     EE          LL      EE          TT          EE          .....
DD      DD     EE          LL      EE          TT          EE          .....
DDDDDDDD      EEEEEEEEEE  LLLLLLLLLL EEEEEEEEEE  TT          EEEEEEEEEE  .....
DDDDDDDD      EEEEEEEEEE  LLLLLLLLLL EEEEEEEEEE  TT          EEEEEEEEEE  .....

```

```

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 lib_delete ( ! Delete modules
2 0002 0
3 0003 0 LANGUAGE (BLISS32),
4 0004 0 IDENT = 'V04-000'
5 0005 1 ) =
6 0006 1 BEGIN
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: Benn Schreiber, CREATION DATE: 2-July-1979
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1 V02-002 RPG0035 Bob Grosso 22-Apr-1981
53 0053 1 Record module names for library update history.
54 0054 1
55 0055 1 V02-001 BLS0029 Benn Schreiber 23-Dec-1980
56 0056 1 Convert messages to message compiler
57 0057 1 --

```

LIB_DELETE
V04-000

C 15
16-Sep-1984 01:50:31
14-Sep-1984 12:37:59

VAX-11 Bliss-32 V4.0-742
[LIBRAR.SRC]DELETE.B32;1

Page 2
(1)

LIE
V04

: 58 0058 1
: 59 0059 1

.....

```
61 0060 1 LIBRARY
62 0061 1 'SYSS$LIBRARY:STARLET.L32';
63 0062 1 REQUIRE
64 0063 1 'PREFIX';
65 0247 1 REQUIRE
66 0248 1 'LIBDEF';
67 0536 1 REQUIRE
68 0537 1 'LBRDEF';
69 1128 1
70 1129 1 FORWARD ROUTINE
71 1130 1 lib_delete_mac, !Delete macro modules
72 1131 1 deletegsdsym; !Delete object gsd symbols
73 1132 1
74 1133 1 EXTERNAL
75 1134 1 lbr$gl_rmsstv : ADDRESSING_MODE (GENERAL), !RMS STV from librarian
76 1135 1 lib$gl_libfdb : REF BBLOCK; !Pointer to library FDB
77 1136 1 lib$gl_objmodix, !index for object modules
78 1137 1 lib$gl_objgsdix, !index for object gsd index
79 1138 1 lib$gl_macmodix, !index for macro names
80 1139 1 lib$gl_hlpmodix, !index for help modules
81 1140 1 lib$gl_txtmodix, !index for text modules
82 1141 1 lib$gl_libctl; !Library control index
83 1142 1
84 1143 1 EXTERNAL ROUTINE
85 1144 1 lib_get_zmem, !Allocate virtual memory
86 1145 1 lib_free_mem, !Deallocate virtual memory
87 1146 1 lib_log_upd, !Record module names for LUH
88 1147 1 lib_log_op, !log delete operation
89 1148 1 lbr$set_index : ADDRESSING_MODE (GENERAL), !Set current index
90 1149 1 lbr$lookup_key : ADDRESSING_MODE (GENERAL), !Lookup a key
91 1150 1 lbr$search : ADDRESSING_MODE (GENERAL), !Search index for RFA
92 1151 1 lbr$delete_key : ADDRESSING_MODE (GENERAL), !Delete a key
93 1152 1 lbr$delete_data : ADDRESSING_MODE (GENERAL); !Delete data
94 1153 1
95 1154 1 EXTERNAL LITERAL
96 1155 1 lib$_indexerr, !Index error
97 1156 1 lib$_lookuperr, !Error looking up module
98 1157 1 lib$_delkeyerr, !Error deleting key
99 1158 1 lib$_deldaterr, !Error deleting data
100 1159 1 lib$_deleted; !Deleted ok
101 1160 1
102 1161 1 GLOBAL BIND ROUTINE
103 1162 1 lib_delete_hlp = lib_delete_mac, !Delete help text module
104 1163 1 lib_delete_txt = lib_delete_mac; !Delete TEXT module
105 1164 1
106 1165 1 OWN
107 1166 1 gsdlist : VECTOR [2, LONG]; !Listhead for deleted symbols
108 1167 1
109 1168 1 BUILTIN
110 1169 1 INSQUE, !Insert into queue
111 1170 1 REMQUE; !Remove from queue
```

```
113 1171 1 GLOBAL ROUTINE lib_delete_obj (modulename) =
114 1172 2 BEGIN
115 1173 3
116 1174 4 ! Delete      modules
117 1175 5
118 1176 6 MAP
119 1177 7   modulename : REF BBLOCK [dsc$cs_bln];
120 1178 8 FIND
121 1179 9   libdesc = lib$gl_libfdb [fdb$l_namdesc] : BBLOCK;
122 1180 10 LOCAL
123 1181 11   gsd'nb : REF BBLOCK,
124 1182 12   gsdesc : BBLOCK [dsc$cs_bln],
125 1183 13   modulerfa : BBLOCK [rfasc_length];
126 1184 14
127 1185 15 P perform (lbr$set_index (lib$gl_libctl, lib$gl_objmodix),
128 1186 16   lib$_indexerr, 1, libdesc);
129 1187 17
130 1188 18 P rms_perform (lbr$lookup_key (lib$gl_libctl, .modulename, modulerfa),
131 1189 19   lib$_lookuperr, .lbr$gl_rmsstv, 2, .modulename, libdesc);
132 1190 20
133 1191 21 P perform (lbr$set_index (lib$gl_libctl, lib$gl_objgsdix),
134 1192 22   lib$_indexerr, 1, libdesc);
135 1193 23
136 1194 24 gsdlist [0] = gsdlist [0];           !Init the queue listhead
137 1195 25 gsdlist [1] = gsdlist [0];
138 1196 26 P rms_perform (lbr$search (lib$gl_libctl, lib$gl_objgsdix, modulerfa, deletegdsym), !find gds
139 1197 27   lib$_indexerr, .lbr$gl_rmsstv, 1, libdesc);
140 1198 28
141 1199 29 ! Remove the symbols from the list that was accumulated and delete
142 1200 30 them now.
143 1201 31
144 1202 32 WHILE NOT REMQUE (.gsdlist, gsd'nb)
145 1203 33 DO BEGIN
146 1204 34   gsdesc [dsc$w_length] = .gsd'nb [lnb$b_namng];           !Create a descriptor
147 1205 35   gsdesc [dsc$a_pointer] = .gsd'nb [lnb$t_name];
148 1206 36 P perform (lbr$delete_key (lib$gl_libctl, gsdesc),           !Delete the global symbol
149 1207 37   lib$_delkeyerr, 2, .modulename, libdesc);
150 1208 38   lib_free_mem (lnb$cs_fixedsize+.gsd'nb [lnb$b_namng], .gsd'nb);!Deallocate the block
151 1209 39 END;
152 1210 40
153 1211 41 P perform (lbr$set_index (lib$gl_libctl, lib$gl_objmodix),
154 1212 42   lib$_indexerr, 1, libdesc);
155 1213 43
156 1214 44 P rms_perform (lbr$delete_key (lib$gl_libctl, .modulename),
157 1215 45   lib$_delkeyerr, .lbr$gl_rmsstv, 2, .modulename, libdesc);
158 1216 46
159 1217 47 P rms_perform (lbr$delete_data (lib$gl_libctl, modulerfa),
160 1218 48   lib$_deldaterr, .lbr$gl_rmsstv, 1, libdesc);
161 1219 49
162 1220 50 lib_log_upd (lhc$cs_deleted, .modulename );
163 1221 51 lib_log_op (lib$_deleted, .modulename, .lib$gl_libfdb);
164 1222 52 RETURN true
165 1223 53 END;
```

```
.TITLE LIB_DELETE
.IDENT \V04-000\
```

.PSECT \$OWNS,NOEXE,2

00000 GSDLIST:.BLKB 8

.EXTRN LBR\$GL_RMSSTV, LIB\$GL_LIBFDB
.EXTRN LIB\$GL_OBJMODIX
.EXTRN LIB\$GL_OBJGSDIX
.EXTRN LIB\$GL_MACMODIX
.EXTRN LIB\$GL_HLPMODIX
.EXTRN LIB\$GL_TXTMODIX
.EXTRN LIB\$GL_LIBCTL, LIB_GET_ZMEM
.EXTRN LIB_FREE_MEM, LIB_LOG_OPD
.EXTRN LIB_LOG_OP, LBR\$SET_INDEX
.EXTRN LBR\$LOOKUP_KEY, LBR\$SEARCH
.EXTRN LBR\$DELETE_KEY, LBR\$DELETE_DATA
.EXTRN LIB\$INDEXERR, LIB\$LOOKUPERR
.EXTRN LIB\$DELKEYERR, LIB\$DELDATERR
.EXTRN LIB\$DELETED

.PSECT \$CODE\$,NOWRT,2

OFFC 00000

.ENTRY LIB_DELETE_OBJ, Save R2,R3,R4,R5,R6,R7,R8,- : 1171
R9,R10,R11
MOVL #LIB\$ DELKEYERR, R11
MOVAB LBR\$DELETE_KEY, R10
MOVAB GSDLIST, R9
MOVAB LBR\$SET_INDEX, R8
MOVAB LBR\$GL_RMSSTV, R7
MOVL #LIB\$ INDEXERR, R6
MOVAB LIB\$GL_LIBCTL, R5
MOVAB LIB\$SIGNAL, R4
SUBL2 #16, SP
ADDL3 #16, LIB\$GL_LIBFDB, R3 : 1179
PUSHAB LIB\$GL_OBJMODIX : 1186
PUSHL R5
CALLS #2, LBR\$SET_INDEX
BLBS STATUS, 1\$
PUSHL STATUS
PUSHL R3
PUSHL #1
PUSHL R6
CALLS #4, LIB\$SIGNAL : 1189
PUSHL SP
PUSHL MODULENAME
PUSHL R5
CALLS #3, LBR\$LOOKUP_KEY
BLBS STATUS, 2\$
PUSHL LBR\$GL_RMSSTV
PUSHL STATUS
PUSHL R3
PUSHL MODULENAME
PUSHL #2
PUSHL #LIB\$ LOOKUPERR
CALLS #6, LIB\$SIGNAL : 1192
PUSHAB LIB\$GL_OBJGSDIX
PUSHL R5

	58	00000000G	8F	DD	00002	
	5A	00000000G	00	9E	00009	
	59	0000'	CF	9E	00010	
	58	00000000G	00	9E	00015	
	57	00000000G	00	9E	0001C	
	56	00000000G	8F	DD	00023	
	55	0000G	CF	9E	0002A	
	54	00000000G	00	9E	0002F	
	5E		10	C2	00036	
53	0000G		CF	10	C1	00039
		0000G	CF	9F	0003F	
			55	DD	00043	
	68		02	FB	00045	
	0B		50	E8	00048	
			50	DD	0004B	
			53	DD	0004D	
			01	DD	0004F	
			56	DD	00051	
	64		04	FB	00053	
			5E	DD	00056	1\$:
		04	AC	DD	00058	
			55	DD	0005B	
00000000G	00		03	FB	0005D	
	14		50	E8	00064	
			67	DD	00067	
			50	DD	00069	
			53	DD	0006B	
		04	AC	DD	0006D	
			02	DD	00070	
		00000000G	8F	DD	00072	
	64		06	FB	00078	
		0000G	CF	9F	0007B	2\$:
			55	DD	0007F	

68			02	FB	00081		CALLS	#2, LBR\$SET_INDEX	
0B			50	E8	00084		BLBS	STATUS, 3\$	
			50	DD	00087		PUSHL	STATUS	
			53	DD	00089		PUSHL	R3	
			01	DD	0008B		PUSHL	#1	
			56	DD	0008D		PUSHL	R6	
64			04	FB	0008F		CALLS	#4, LIB\$SIGNAL	
69			69	9E	00092	3\$:	MOVAB	GSDLIST, GSDLIST	1194
04	A9		69	9E	00095		MOVAB	GSDLIST, GSDLIST+4	1195
		0000V	CF	9F	00099		PUSHAB	DELETEDGSDSYM	1197
		04	AE	9F	0009D		PUSHAB	MODULERFA	
		0000G	CF	9F	000A0		PUSHAB	LIB\$GL_OBJGSDIX	
			55	DD	000A4		PUSHL	R5	
00000000G	00		04	FB	000A6		CALLS	#4, LBR\$SEARCH	
	0D		50	E8	000AD		BLBS	STATUS, 4\$	
			67	DD	000B0		PUSHL	LBR\$GL_RMSSTV	
			50	DD	000B2		PUSHL	STATUS	
			53	DD	000B4		PUSHL	R3	
			01	DD	000B6		PUSHL	#1	
			56	DD	000B8		PUSHL	R6	
64			05	FB	000BA		CALLS	#5, LIB\$SIGNAL	
52		00	B9	0F	000BD	4\$:	REMQUE	@GSDLIST, GSDLNB	1202
			33	1D	000C1		BVS	6\$	
0B	AE	09	A2	9B	000C3		MOVZBW	9(GSDLNB), GSDDESC	1204
0C	AE	0A	A2	9E	000C8		MOVAB	10(R2), GSDDESC+4	1205
		08	AE	9F	000CD		PUSHA3	GSDDESC	1207
			55	DD	000D0		PUSHL	R5	
6A			02	FB	000D2		CALLS	#2, LBR\$DELETE_KEY	
0E			50	E8	000D5		BLBS	STATUS, 5\$	
			50	DD	000D8		PUSHL	STATUS	
			53	DD	000DA		PUSHL	R3	
		04	AC	DD	000DC		PUSHL	MODULENAME	
			02	DD	000DF		PUSHL	#2	
			5B	DD	000E1		PUSHL	R11	
64			05	FB	000E3		CALLS	#5, LIB\$SIGNAL	
			52	DD	000E6	5\$:	PUSHL	GSDLNB	1208
7E		09	A2	9A	000E8		MOVZBL	9(GSDLNB), -(SP)	
6E			0A	00	000EC		ADDL2	#10, (SP)	
0000G	CF		02	FB	000EF		CALLS	#2, LIB_FREE_MEM	
			C7	11	000F4		BRB	4\$	1202
		0000G	CF	9F	000F6	6\$:	PUSHAB	LIB\$GL_OBJMODIX	1212
			55	DD	000FA		PUSHL	R5	
68			02	FB	000FC		CALLS	#2, LBR\$SET_INDEX	
0B			50	E8	000FF		BLBS	STATUS, 7\$	
			50	DD	00102		PUSHL	STATUS	
			53	DD	00104		PUSHL	R3	
			01	DD	00106		PUSHL	#1	
			56	DD	00108		PUSHL	R6	
64			04	FB	0010A		CALLS	#4, LIB\$SIGNAL	
		04	AC	DD	0010D	7\$:	PUSHL	MODULENAME	1215
			55	DD	00110		PUSHL	R5	
6A			02	FB	00112		CALLS	#2, LBR\$DELETE_KEY	
10			50	E8	00115		BLBS	STATUS, 8\$	
			67	DD	00118		PUSHL	LBR\$GL_RMSSTV	
			50	DD	0011A		PUSHL	STATUS	
			53	DD	0011C		PUSHL	R3	
		04	AC	DD	0011E		PUSHL	MODULENAME	

			02	DD	00121	PUSHL	#2		
			5B	DD	00123	PUSHL	R11		
	64		06	FB	00125	CALLS	#6, LIB\$SIGNAL		
		4020	8F	BB	00128	PUSHR	#^M<R5, SP>		1218
00000000G	00		02	FB	0012C	CALLS	#2, LBR\$DELETE_DATA		
	11		50	EB	00133	BLBS	STATUS, 9\$		
			67	DD	00136	PUSHL	LBR\$GL_RMSSTV		
			50	DD	00138	PUSHL	STATUS		
			53	DD	0013A	PUSHL	R3		
			01	DD	0013C	PUSHL	#1		
	64	00000000G	8F	DD	0013E	PUSHL	#LIB\$ DELDATERR		
		04	05	FB	00144	CALLS	#5, LIB\$SIGNAL		
			AC	DD	00147	PUSHL	MODULENAME		1220
			01	DD	0014A	PUSHL	#1		
0000G	CF		02	FB	0014C	CALLS	#2, LIB LOG UPD		
		0000G	CF	DD	00151	PUSHL	LIB\$GL_CIBFDB		1221
		04	AC	DD	00155	PUSHL	MODULENAME		
		00000000G	8F	DD	00158	PUSHL	#LIB\$ DELETED		
0000G	CF		03	FB	0015E	CALLS	#3, LIB_LOG_OP		
	50		01	DO	00163	MOVL	#1, R0		1222
			04	DO	00166	RET			1223

; Routine Size: 359 bytes, Routine Base: \$CODE\$ + 0000

```

167 1224 1 GLOBAL ROUTINE lib_delete_mac (modulename) =
168 1225 2 BEGIN
169 1226 2
170 1227 2   Delete macros
171 1228 2
172 1229 2 MAP
173 1230 2   modulename : REF BBLOCK [dsc$_s_bln];
174 1231 2 BIND
175 1232 2   libdesc = lib$gl_libfdb [fdb$_namdesc] : BBLOCK;
176 1233 2 LOCAL
177 1234 2   modulerfa : BBLOCK [rfa$_length];
178 P 1235 2 perform (lbr$set_index (lib$gl_libctl, lib$gl_macmodix),
179 1236 2   lib$_indexerr, 1, libdesc);
180 1237 2
181 P 1238 2 rms_perform (lbr$lookup_key (lib$gl_libctl, .modulename, modulerfa),
182 1239 2   lib$_lookuperr, .lbr$gl_rmsstv, 2, .modulename, libdesc);
183 1240 2
184 P 1241 2 rms_perform (lbr$delete_key (lib$gl_libctl, .modulename),
185 1242 2   lib$_delkeyerr, .lbr$gl_rmsstv, 2, .modulename, libdesc);
186 1243 2
187 P 1244 2 rms_perform (lbr$delete_data (lib$gl_libctl, modulerfa),
188 1245 2   lib$_deldaterr, .lbr$gl_rmsstv, 1, libdesc);
189 1246 2
190 1247 2 lib_log_upd (lhc$_deleted, .modulename );
191 1248 2 lib_log_op (lib$_deleted, .modulename, .lib$gl_libfdb);
192 1249 2 RETURN true
193 1250 1 END;

```

			007C 00000	.ENTRY	LIB DELETE MAC, Save R2,R3,R4,R5,R6	: 1224
	56	0000G	CF 9E 00002	MOVAB	LIB\$GL_LIBCTL, R6	
	55	00000000G	00 9E 00007	MOVAB	LBR\$GL_RMSSTV, R5	
	54	00000000G	00 9E 0000E	MOVAB	LIB\$SIGNAL, R4	
	5E		08 C2 00015	SUBL2	#8, SP	
53	0000G		10 C1 00018	ADDL3	#16, LIB\$GL_LIBFDB, R3	1232
		0000G	CF 9F 0001E	PUSHAB	LIB\$GL_MACMODIX	1236
			56 DD 00022	PUSHL	R6	
	00000000G	00	02 FB 00024	CALLS	#2, LBR\$SET_INDEX	
		0F	50 E8 0002B	BLBS	STATUS, 1\$	
			50 DD 0002E	PUSHL	STATUS	
			53 DD 00030	PUSHL	R3	
			01 DD 00032	PUSHL	#1	
		00000000G	8F DD 00034	PUSHL	#LIB\$.INDEXERR	
	64		04 FB 0003A	CALLS	#4, L'B\$SIGNAL	
			5E DD 0003D 1\$:	PUSHL	SP	1239
	52	04	AC DD 0003F	MOVL	MODULENAME, R2	
			52 DD 00043	PUSHL	R2	
			56 DD 00045	PUSHL	R6	
	00000000G	00	03 FB 00047	CALLS	#3, LBR\$LOOKUP_KEY	
		11	50 E8 0004E	BLBS	STATUS, 2\$	
			65 DD 00051	PUSHL	LBR\$GL_RMSSTV	
			50 DD 00053	PUSHL	STATUS	
			0C BB 00055	PUSHR	#^M<R2,R3>	
			02 DD 00057	PUSHL	#2	

64	00000000G	8F DD 00059	PUSHL #LIB\$ LOOKUPERR	:	
		06 FB 0005F	CALLS #6, LIB\$SIGNAL	:	
		52 DD 00062 2\$:	PUSHL R2	:	1242
		56 DD 00064	PUSHL R6	:	
00000000G	00	02 FB 00066	CALLS #2, LBR\$DELETE_KEY	:	
	11	50 EB 0006D	BLBS STATUS, 3\$:	
		65 DD 00070	PUSHL LBR\$GL_RMSSTV	:	
		50 DD 00072	PUSHL STATUS-	:	
		0C BB 00074	PUSHR #^M<R2,R3>	:	
		02 DD 00076	PUSHL #2	:	
	00000000G	8F DD 00078	PUSHL #LIB\$ DELKEYERR	:	
64		06 FB 0007E	CALLS #6, LIB\$SIGNAL	:	
	4040	8F BB 00081 3\$:	PUSHR #^M<R6,SP>	:	1245
00000000G	00	02 FB 00085	CALLS #2, LBR\$DELETE_DATA	:	
	11	50 EB 0008C	BLBS STATUS, 4\$:	
		65 DD 0008F	PUSHL LBR\$GL_RMSSTV	:	
		50 DD 00091	PUSHL STATUS-	:	
		53 DD 00093	PUSHL R3	:	
		01 DD 00095	PUSHL #1	:	
	00000000G	8F DD 00097	PUSHL #LIB\$ DELDATERR	:	
64		05 FB 0009D	CALLS #5, LIB\$SIGNAL	:	
		52 DD 000A0 4\$:	PUSHL R2	:	1247
		01 DD 000A2	PUSHL #1	:	
0000G	CF	02 FB 000A4	CALLS #2, LIB_LOG_UPD	:	
	0000G	CF DD 000A9	PUSHL LIB\$GL_CIBFDB	:	1248
		52 DD 000AD	PUSHL R2	:	
	00000000G	8F DD 000AF	PUSHL #LIB\$ DELETED	:	
0000G	CF	03 FB 000B5	CALLS #3, LIB_LOG_OP	:	1249
	50	01 DD 000BA	MOVL #1, R0	:	1250
		04 DD 000BD	RET	:	

; Routine Size: 190 bytes, Routine Base: \$CODE\$ + 0167

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: 195      1251 1 ROUTINE deletegsdsym (keydesc) =
: 196      1252 2 BEGIN
: 197      1253 3
: 198      1254 4 Delete one gsd symbol
: 199      1255 5
: 200      1256 6 MAP
: 201      1257 7 keydesc : REF BBLOCK [rfa$length];
: 202      1258 8 BIND
: 203      1259 9 libdesc = lib$gl_libfdb [fdb$l_namdesc] : BBLOCK;
: 204      1260 10 LOCAL
: 205      1261 11 lnb : REF BBLOCK;
: 206      1262 12
: 207      1263 13 perform (lib_get_zmem (lnb$fixedsize+keydesc [dsc$w_length], lnb)); !Alloc a name block
: 208      1264 14 CH$MOVE (.keydesc [dsc$w_length], .keydesc [dsc$a_pointer], !Copy in the name
: 209      1265 15 lnb [lnb$l_name]);
: 210      1266 16 lnb [lnb$b_namng] = .keydesc [dsc$w_length];
: 211      1267 17 INSQUE (.lnb, .gsdlist [1]); !Insert into queue
: 212      1268 18
: 213      1269 19 RETURN true
: 214      1270 20 END; !Of deletegsdsym

```

00FC 0000 DELETEDGSDSYM:

					.WORD	Save R2,R3,R4,R5,R6,R7	: 1251
	5E		04	C2 00002	SUBL2	#4, SP	
			5E	DD 00005	PUSHL	SP	: 1263
	57	04	AC	DD 00007	MOVL	KEYDESC, R7	
	7E		67	3C 0000B	MOVZWL	(R7), -(SP)	
	6E		0A	CD 0000E	ADDL2	#10, (SP)	
	0000G		02	FB 00011	CALLS	#2, LIB_GET_ZMEM	
	15		50	E9 00016	BLBC	STATUS, '1\$	
	56		6E	DD 00019	MOVL	LNB, R6	: 1265
0A	A6	04	67	28 0001C	MOVCL3	(R7), @4(R7), 10(R6)	
		09	67	90 00022	MOVB	(R7), 9(R6)	: 1266
		0000'	66	0E 00026	INSQUE	(R6), @GSDLIST+4	: 1267
			01	DD 0002E	MOVL	#1, R0	: 1269
			04	0002E 1\$:	RET		: 1270

: Routine Size: 47 bytes, Routine Base: \$CODE\$ + 0225

```

: 215      1271 1 END
: 216      1272 0 ELUDCM

```

```

      .EXTRN LIB$SIGNAL
LIB_DELETE_TXT== LIB_DELETE_MAC
LIB_DELETE_HLP== LIB_DELETE_MAC

```

PSECT SUMMARY

Name	Bytes	Attributes
------	-------	------------

LIB_DELETE
V04=000

L 15
16-Sep-1984 01:50:31
14-Sep-1984 12:37:59

VAX-11 Bliss-32 V4.0-742
[LIBRAR.SRC]DELETE.B32;1

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**

```
:  
: SOWNS      8 NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)  
: $CODES    596 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
```

Library Statistics

```
:  
: File Total Symbols Loaded Percent Pages Mapped Processing Time  
: _$255$DUA28:[SYSLIB]STARLET.L32;1 9776 23 0 581 00:01.0
```

COMMAND QUALIFIERS

```
: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:DELETE/OBJ=OBJ$:DELETE MSRCS$:DELETE/UPDATE=(ENHS$:DELETE)
```

```
: 217 1273 0  
: Size: 596 code + 8 data bytes  
: Run Time: 00:20.2  
: Elapsed Time: 00:40.5  
: Lines/CPU Min: 3777  
: Lexemes/CPU-Min: 44403  
: Memory Used: 199 pages  
: Compilation Complete
```

0200 AH-BT13A-SE
VAX/VMS V4.0

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A large grid of small, mostly illegible terminal window screenshots. The grid contains several larger, more legible terminal windows with the following titles:

- TRANSFER LIS
- PUTCACHE LIS
- LIBRAR
- LIBRARIAN MAP
- PREFIX REQ
- CROSS LIS
- SUBS LIS
- PADL BR LIS
- COMPRESS LIS
- LIB MOL
- DELETE LIS
- EXTRACT LIS
- FILETO LIS
- DATABASE LIS

Each small window appears to contain a terminal interface with text, tables, or command-line input.