


```

LL      IIIIII  BBBB8888  FFFFFFFF  LL      TTTTTTTTTT  UU      UU  NN      NN  DDDDDDDD
LL      IIIIII  BBBB8888  FFFFFFFF  LL      TTTTTTTTTT  UU      UU  NN      NN  DDDDDDDD
LL      II      BB      BB  FF      FF  LL      TT      UU      UU  NN      NN  DD      DD
LL      II      BB      BB  FF      FF  LL      TT      UU      UU  NN      NN  DD      DD
LL      II      BB      BB  FF      FF  LL      TT      UU      UU  NNNN   NN  DD      DD
LL      II      BB      BB  FF      FF  LL      TT      UU      UU  NNNN   NN  DD      DD
LL      II      BBBB8888  FFFFFFFF  LL      TT      UU      UU  NN  NN  NN  DD      DD
LL      II      BBBB8888  FFFFFFFF  LL      TT      UU      UU  NN  NN  NN  DD      DD
LL      II      BB      BB  FF      FF  LL      TT      UU      UU  NN      NN  DD      DD
LL      II      BB      BB  FF      FF  LL      TT      UU      UU  NN      NN  DD      DD
LL      II      BB      BB  FF      FF  LL      TT      UU      UU  NN      NN  DD      DD
LL      II      BB      BB  FF      FF  LL      TT      UU      UU  NN      NN  DD      DD
LLLLLLLL  IIIIII  BBBB8888  FF      FF  LLLLLLLLLL  TT      UU      UU  NN      NN  DDDDDDDD
LLLLLLLL  IIIIII  BBBB8888  FF      FF  LLLLLLLLLL  TT      UU      UU  NN      NN  DDDDDDDD

```

```

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
LLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLL  IIIIII  SSSSSSSS

```

```

1 0001 0 MODULE LIB$FLT_UNDER (%TITLE'Enable/disable floating underflow traps'
2 0002 0 IDENT = '1-002' ! File: LIBFLTUND.B32 Edit: SBL1002
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1
31 0031 1 ++
32 0032 1 FACILITY: Utility Library
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 LIB$FLT_UNDER enables or disables floating underflow
37 0037 1 for the calling procedure activation. The previous setting
38 0038 1 of the enable is returned as a value.
39 0039 1
40 0040 1 ENVIRONMENT: User mode, re-entrant, AST level or not or mixed.
41 0041 1
42 0042 1 AUTHOR: Thomas N. Hastings CREATION DATE: 8-Oct-77
43 0043 1
44 0044 1 MODIFIED BY:
45 0045 1
46 0046 1 Thomas N. Hastings, 8-Oct-77: VERSION 0
47 0047 1 01 - original
48 0048 1 0-2 - Declare PSECTS. TNH 19-Dec-77
49 0049 1 0-03 - Change to STARLET library. DGP 20-Apr-78
50 0050 1 0-04 - Set proper frame. TNH 21-Apr-78
51 0051 1 0-05 - Change REQUIRE files for VAX system build. DGP 28-Apr-78
52 0052 1 0-06 - Change STARLET to RTLSTARLE to avoid conflicts. DGP 1-May-78
53 0053 1 0-07 - Change file name to LIBFLTUND.B32, and change the name
54 0054 1 of the REQUIRE file similarly. JBS 14-NOV-78
55 0055 1 1-001 - Update version number and copyright notice. JBS 16-NOV-78
56 0056 1 1-002 - Use prologue file. SBL 24-June-1983
57 0057 1 --

```

```
59 C058 1 |  
60 0059 1 | PROLOGUE FILE:  
61 0060 1 |  
62 0061 1 |  
63 0062 1 | REQUIRE 'RTLIN:LIBPROLOG';  
64 0133 1 |  
65 0134 1 |  
66 0135 1 | TABLE OF CONTENTS:  
67 0136 1 |  
68 0137 1 |  
69 0138 1 | FORWARD ROUTINE  
70 0139 1 |  
71 0140 1 | LIB$FLT_UNDER;  
72 0141 1 | Enable/disable floating underflow  
73 0142 1 |  
74 0143 1 | MACROS:  
75 0144 1 |  
76 0145 1 |  
77 0146 1 |  
78 0147 1 | EQUATED SYMBOLS:  
79 0148 1 |  
80 0149 1 |  
81 0150 1 |  
82 0151 1 | OWN STORAGE:  
83 0152 1 |  
84 0153 1 |  
85 0154 1 |  
86 0155 1 | EXTERNAL REFERENCES:  
87 0156 1 |  
88 0157 1 |
```

: R

```
90 0158 1 GLOBAL ROUTINE LIB$FLT_UNDER ( ! Enable/disable floating underflow
91 0159 1     NEW_SETTING) ! Adr. of longword containing new setting
92 0160 1     = ! Value is old setting
93 0161 1
94 0162 1 !++
95 0163 1 FUNCTIONAL DESCRIPTION:
96 0164 1     LIB$FLT_UNDER enables or disables floating underflow
97 0165 1     for the calling procedure activation. The previous setting
98 0166 1     of the enable is returned as a value.
99 0167 1
100 0168 1 FORMAL PARAMETERS:
101 0169 1     new_setting.rlu.r     Adr. of longword containing new enable setting.
102 0170 1
103 0171 1     Bit 0 = 1 is enable, bit 0 = 0 is disable.
104 0172 1
105 0173 1 IMPLICIT INPUTS:
106 0174 1     NONE
107 0175 1
108 0176 1 IMPLICIT OUTPUTS:
109 0177 1     NONE
110 0178 1
111 0179 1 ROUTINE VALUE:
112 0180 1     OLD_SETTING.wlu.v     previous contents of SRMSW_PSW[PSW$V_FU]
113 0181 1     in the callers frame.
114 0182 1
115 0183 1 COMPLETION CODES:
116 0184 1     NONE
117 0185 1
118 0186 1 SIDE EFFECTS:
119 0187 1     The callers stack frame will be modified.
120 0188 1
121 0189 1
122 0190 1
123 0191 1
124 0192 1
125 0193 1
126 0194 1
127 0195 1 --
128 0196 1
129 0197 2 BEGIN
130 0198 2
131 0199 2 LOCAL
132 0200 2     OLD_SETTING; ! store the old SETTING of floating underflow enable
133 0201 2 BUILTIN
134 0202 2     FP;
135 0203 2 MAP
136 0204 2     NEW_SETTING: REF VECTOR[1, LUNG], ! Scalar call-by-reference
137 0205 2     FP: REF BLOCK[.BYTE];
138 0206 2     OLD_SETTING = .FP[SF$V_FU];
139 0207 2     FP[SF$V_FU] = .NEW_SETTING[0];
140 0208 2     RETURN .OLD_SETTING;
141 0209 1     END; !End of LIB$FLT_UNDER
```

```
.TITLE LIB$FLT_UNDER Enable/disable floating underflow
traps
.IDENT \1-002\
```

LIB\$FLT_UNDER Enable/disable floating underflow traps
1-002

F 4
16-Sep-1984 00:56:11
14-Sep-1984 12:38:51

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFLTUND.B32;1

Page 4
(3)

LIB
V03

							0000	0000C
04	50	04	AE	01	06	EF	00002	
	AE		01	06	04	BC	F0 00008	
							04 0000F	

.PSECT _LIB\$CODE,NOWRT, SHR, PIC,2

.ENTRY	LIB\$FLT_UNDER, Save nothing	:	0158
EXTZV	#6, #1, 4(FP), OLD_SETTING	:	0206
INSV	@NEW_SETTING, #6, #1, 4(FP)	:	0207
RET		:	0209

: Routine Size: 16 bytes, Routine Base: _LIB\$CODE + 0000

: R

LIB\$FLT_UNDER 1-002 Enable/disable floating underflow traps

G 4
16-Sep-1984 00:56:11
14-Sep-1984 12:38:51

VAX-11 Bliss-32 V4.0-742
[LIBRTL.SRC]LIBFLTUND.B32;1

: 143 0210 1 END !End of module
: 144 0211 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
_LIB\$CODE	16	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	1	0	581	00:00.7
_\$255\$DUA28:[LIBRTL.OBJ]RTLLIB.L32;1	36	0	0	8	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:LIBFLTUND/OBJ=OBJ\$:LIBFLTUND MSRC\$:LIBFLTUND/UPDATE=(ENH\$:LIBFLTUND)

: Size: 16 code + 0 data bytes
: Run Time: 00:02.0
: Elapsed Time: 00:14.2
: Lines/CPU Min: 6236
: Lexemes/CPU-Min: 10108
: Memory Used: 30 pages
: Compilation Complete

This image displays a grid of 144 terminal window screenshots, arranged in 12 rows and 12 columns. Each window shows a different LIS (Library Information System) command and its corresponding output. The commands visible include:

- LIBFLIND LIS
- LIBGETSYI LIS
- LIBCHAR LIS
- LIBINITIA LIS
- LIBGETFOR LIS
- LIBGETINP LIS
- LIBINISHR LIS
- LIBGETDVI LIS
- LIBGETOPC LIS
- LIBFNDIMG LIS
- LIBGETMSG LIS
- LIBINDEX LIS
- LIBINSQHI LIS
- LIBGETIPT LIS
- LIBGETTAB LIS

The outputs consist of various data lists, including file names, sizes, dates, and other system-related information, demonstrating the functionality of the LIS software.