



```

LL          IIIIII  BBBB BBBB  IIIIII  NN    NN  TTTTTTTTTT  000000  VV    VV  EEEEEEEEEE
LL          IIIIII  BBBB BBBB  IIIIII  NN    NN  TTTTTTTTTT  000000  VV    VV  EEEEEEEEEE
LL          II      BB      BB  II      NN    NN  TT      00    00  VV    VV  EE
LL          II      BB      BB  II      NN    NN  TT      00    00  VV    VV  EE
LL          II      BB      BB  II      NN    NN  TT      00    00  VV    VV  EE
LL          II      BBBB BBBB  II      NN    NN  TT      00    00  VV    VV  EEEEEEEEE
LL          II      BBBB BBBB  II      NN    NN  TT      00    00  VV    VV  EEEEEEEEE
LL          II      BB      BB  II      NN    NN  TT      00    00  VV    VV  EE
LL          II      BB      BB  II      NN    NN  TT      00    00  VV    VV  EE
LL          II      BB      BB  II      NN    NN  TT      00    00  VV    VV  EE
LL          II      BB      BB  II      NN    NN  TT      00    00  VV    VV  EE
LL          IIIIII  BBBB BBBB  IIIIII  NN    NN  TT      00    00  VV    VV  EEEEEEEEE
LL          IIIIII  BBBB BBBB  IIIIII  NN    NN  TT      00    00  VV    VV  EEEEEEEEE
LLLLLLLLLLL  IIIIII  BBBB BBBB  IIIIII  NN    NN  TT      000000  VV    VV  EEEEEEEEE
LLLLLLLLLLL  IIIIII  BBBB BBBB  IIIIII  NN    NN  TT      000000  VV    VV  EEEEEEEEE

```

```

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          IIIIII  SSSSSSSS
LL          IIIIII  SSSSSSSS

```

```

1 0001 0 MODULE LIB$INT_OVER (%TITLE'Enable/disable integer overflow traps'
2 0002 0 IDENT = '1-002' ! file: LIBINTOVE.B32 Edit: SBL1002
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 |
7 0007 1 |*****
8 0008 1 |*
9 0009 1 |* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 1 |* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
26 0026 1 |*
27 0027 1 |*
28 0028 1 |*****
29 0029 1 |
30 0030 1 |
31 0031 1 |++
32 0032 1 |FACILITY: Utility Library
33 0033 1 |
34 0034 1 |ABSTRACT:
35 0035 1 |
36 0036 1 | LIB$INT_OVER enables or disables integer overflow
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 stack 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 the file name to LIBINTOVE.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 |--

```

LIB\$INT\_OVER  
1-002

Enable/disable integer overflow traps

1 2  
16-Sep-1984 01:04:01  
14-Sep-1984 12:39:06

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

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```
.. 59      0058  1  |  
.. 60      0059  1  | PROLOGUE FILE:  
.. 61      0060  1  |  
.. 62      0061  1  |  
.. 63      0062  1  | REQUIRE 'RTLIN:LIBPROLOG';           ! LIB$ definitions  
.. 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$INT_OVER;                       ! Enable/disable integer overflow  
.. 72      0141  1  |  
.. 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  |
```

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

```
.TITLE LIB$INT_OVER Enable/disable integer overflow tr
                                aps
.IDENT \1-002\
```

LIB\$INT\_OVER  
1-002

Enable/disable integer overflow traps

K 2  
16-Sep-1984 01:04:01  
14-Sep-1984 12:39:06

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

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```
04 50      04 AE      01      05 EF 00002
   AE      01      05      04 BC FO 00008
                                04 0000F
```

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

```
.ENTRY LIB$INT_OVER, Save nothing      ; 0158
EXTZV  #5, #1, 4(FP), OLD_SETTING      ; 0206
INSV   @NEW_SETTING, #5, #1, 4(FP)     ; 0207
RET                                         ; 0209
```

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

LIB\$INT\_OVER  
1-002

Enable/disable integer overflow traps

L 2  
16-Sep-1984 01:04:01  
14-Sep-1984 12:39:06

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

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: 143 0210 1 END  
: 144 0211 0 ELUDOM

!End of module

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	00:00.0

COMMAND QUALIFIERS

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

: Size: 16 code + 0 data bytes  
: Run Time: 00:02.0  
: Elapsed Time: 00:14.8  
: Lines/CPU Min: 6267  
: Lexemes/CPU-Min: 10158  
: Memory Used: 30 pages  
: Compilation Complete

