



```

LL      IIIIII  BBBB8888  SSSSSSSS  IIIIII  GGGGGGGG  SSSSSSSS  TTTTTTTTTT  000000
LL      IIIIII  BBBB8888  SSSSSSSS  II.IIII  GGGGGGGG  SSSSSSSS  TTTTTTTTTT  000000
LL      II      BB      BB  SS      II      GG      SS      TT      00      00
LL      II      BB      BB  SS      II      GG      SS      TT      00      00
LL      II      BB      BB  SS      II      GG      SS      TT      00      00
LL      II      BBBB8888  SSSSSS      II      GG      SSSSSS  TT      00      00
LL      II      BBBB8888  SSSSSS      II      GG      SSSSSS  TT      00      00
LL      II      BB      BB      SS      II      GG  GGGGGG  SS      TT      00      00
LL      II      BB      BB      SS      II      GG  GGGGGG  SS      TT      00      00
LL      II      BB      BB      SS      II      GG      GG      SS      TT      00      00
LL      II      BB      BB      SS      II      GG      GG      SS      TT      00      00
LLLLLLLLLLLL  IIIIII  BBBB8888  SSSSSSSS  IIIIII  GGGGGG  SSSSSSSS  TT      000000
LLLLLLLLLLLL  IIIIII  BBBB8888  SSSSSSSS  IIIIII  GGGGGG  SSSSSSSS  TT      000000

```

```

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
LLLLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLLLL  IIIIII  SSSSSSSS

```

(2) 59

Change a signal to a stop

```

0000 1 .TITLE LIBSIGSTOP Convert a signal to a stop
0000 2 .IDENT /1-001/ ; File: LIBSIGSTO.MAR EDIT: FM1001
0000 3
0000 4
0000 5 :*****
0000 6 :*
0000 7 :* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 8 :* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 9 :* ALL RIGHTS RESERVED.
0000 10 :*
0000 11 :* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 12 :* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 13 :* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 14 :* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 15 :* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 16 :* TRANSFERRED.
0000 17 :*
0000 18 :* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 19 :* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 20 :* CORPORATION.
0000 21 :*
0000 22 :* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 23 :* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28 :++
0000 29 : FACILITY: Common Run-time Library.
0000 30 :
0000 31 : AUTHOR:
0000 32 : FAROKH MORSHED 22-APR-83 VMS V3B
0000 33 :
0000 34 : MODIFIED BY:
0000 35 :
0000 36 :--
0000 37 :
0000 38 :
0000 39 : PSECT DEFINITION
0000 40 :
0000 41 : .PSECT _LIB$CODE PIC, SHR, LONG, NOWRT
0000 42 :
0000 43 :
0000 44 : MACRO LIBRARY CALLS
0000 45 :
0000 46 : $CHFDEF ; Condition Handling arglst offsets
0000 47 : $STSDEF ; Status code fields
0000 48 :
0000 49 :
0000 50 : EXTERNAL REFERENCES
0000 51 :
0000 52 : .DSABL GBL
0000 53 : .EXTERNAL LIB$_INVARG ; We return this error condition
0000 54 : ; when SIGARGS condition code is
0000 55 : ; $$ UNWIND.
0000 56 : .EXTERNAL $$$ UNWIND ; Unwind condition code
0000 57 : .EXTERNAL $$$ NORMAL ; Successful completion status

```

```

0000 59      .SBTTL  Change a signal to a stop
0000 60
0000 61      :++
0000 62      : FUNCTIONAL DESCRIPTION:
0000 63      : This routine sets the stop bit associated with the exception whose
0000 64      : mechanism argument is passed. The mechanism argument address is used
0000 65      : in a "dead reckon" fashion to find the flag longword. The signal
0000 66      : argument address is used to set the severity of the condition to
0000 67      : severe. This routine is used to convert a particular signal to
0000 68      : appear as if it was signalled by a LIB$STOP. If the condition value
0000 69      : in SIGARGS is S$$ UNWIND, then this routine returns an error condition.
0000 70      : The S$$ UNWIND condition code is compared with the SIGARGS condition
0000 71      : code in a fashion that is only "correct" when a non-facility specific
0000 72      : condition code (which S$$ UNWIND indeed is one) is being compared
0000 73      : against any other condition code (this is to avoid the overhead of
0000 74      : calling LIB$MATCH_COND).
0000 75
0000 76      : CALLING SEQUENCE:
0000 77      : LIB$SIG_TO_STOP (SIGARGS.mr.r, MCHARGS.rr.r)
0000 78
0000 79      : FORMAL PARAMETERS:
0000 80      : SIGARGS      The signal's signal argument
0000 81      : MCHARGS      The signal's mechanism argument
0000 82
0000 83      : IMPLICIT INPUTS:
0000 84      : NONE
0000 85
0000 86      : IMPLICIT OUTPUTS:
0000 87      : NONE
0000 88
0000 89      : COMPLETION CODES:
0000 90      : S$$ NORMAL      ; Success
0000 91      : LIB$_INVARG    ; The condition code is S$$ UNWIND
0000 92
0000 93      : SIDE EFFECTS:
0000 94      :
0000 95      :--
0000 96
00000014 0000 97      MCHARGS_TO_FLAGS_OFFSET = 20      ; Dead reckon offset to flag
00000001 0000 98      V_STOP_BIT = 1      ; Position of stop bit
00000002 0000 99      M_STOP_BIT = 1@V_STOP_BIT      ; Mask for stop bit
00000000 0000 100     V_SIGNAL_BIT = 0      ; Pos of signal bit
00000001 0000 101     M_SIGNAL_BIT = 1@V_SIGNAL_BIT      ; Mask for signal bit
0000 102
0000 103     UNWIND_MSG:
00000000 0000 104     .LONG S$$ UNWIND@-ST$$SEVERITY; The message portion of S$$ UNWIND
0000 105
0000 106     .ENTRY LIB$SIG_TO_STOP, ^M<>
0000 107
50 04 AC D0 0006 108     MOVL  CHF$L_SIGARGLST(AP), R0      ; R0 <- SIGARGS
000A 109
EF AF 0D 03 ED 000A 110     CMPZV #ST$$V_MSG NO, #ST$$S_MSG NO,-
000D 111     CHF$L_SIG_NAME(R0), UNWIND_MSG ; S$$ UNWIND?
0011 112     BEQL 10$ ; Yes.
0013 113
00 04 F0 0013 114     INSV #ST$$K_SEVERE, #ST$$V_SEVERITY,-
04 A0 03 0016 115     #ST$$S_SEVERITY, CHF$L_SIG_NAME(R0); Set severity to severe

```



LIBSSIGSTOP  
Symbol table

Convert a signal to a stop

H 16

16-SEP-1984 00:21:37  
6-SEP-1984 11:10:52

VAX/VMS Macro V04-00  
[LIBRTL.SRC]LIBSIGSTO.MAR;1

Page 4  
(2)

```

CHFSL_MCHARGLST      = 00000008
CHFSL_SIGARGLST     = 00000004
CHFSL_SIG_NAME      = 00000004
LIBSSIG TO STOP     = 00000004  RG   01
LIBS_INVARG         = *****  X   01
MCHARGS TO FLAGS_OFFSET = 00000014
M_SIGNAL_BIT       = 00000001
M_STOP_BIT         = 00000002
SSS_NORMAL         = *****  X   01
SSS_UNWIND         = *****  X   01
STSSK_SEVERE       = 00000004
STSSS_MSG_NO       = 00000000
STSSS_SEVERITY     = 00000003
STSSV_MSG_NO       = 00000003
STSSV_SEVERITY     = 00000000
UNWIND MSG         = 00000000  R   01
V_SIGNAL_BIT       = 00000000
V_STOP_BIT         = 00000001
  
```

-----  
! Psect synopsis !  
-----

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
LIBSCODE	00000036 ( 54.)	01 ( 1.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG
SABSS	00000000 ( 0.)	02 ( 2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE

-----  
! Performance indicators !  
-----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.03	00:00:01.46
Command processing	112	00:00:00.34	00:00:04.08
Pass 1	122	00:00:00.77	00:00:06.69
Symbol table sort	0	00:00:00.02	00:00:00.02
Pass 2	39	00:00:00.22	00:00:01.47
Symbol table output	3	00:00:00.01	00:00:00.01
Psect synopsis output	3	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	310	00:00:01.41	00:00:13.75

The working set limit was 900 pages.  
 4250 bytes (9 pages) of virtual memory were used to buffer the intermediate code.  
 There were 10 pages of symbol table space allocated to hold 55 non-local and 2 local symbols.  
 129 source lines were read in Pass 1, producing 13 object records in Pass 2.  
 4 pages of virtual memory were used to define 8 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
-----	-----
_\$255SDUA28:[SYSLIB]STARLET.MLB;2	5

108 GETS were required to define 5 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:LIBSIGSTO/OBJ=OBJ\$:LIBSIGSTO MSRC\$:LIBSIGSTO/UPDATE=(ENH\$:LIBSIGSTO)

