


```

SSSSSSSS YY YY SSSSSSS FFFFFFFF 000000 RRRRRRRR CCCCCCCC EEEEEEEEE XX XX
SSSSSSSS YY YY SSSSSSS FFFFFFFF 000000 RRRRRRRR CCCCCCCC EEEEEEEEE XX XX
SS YY YY SS SSSSSSS FF FF 00 00 RR RR CC CCCCCC EEEEEEEEE XX XX
SS YY YY SS SSSSSSS FF FF 00 00 RR RR CC CCCCCC EEEEEEEEE XX XX
SS YY YY SS SSSSSSS FF FF 00 00 RR RR CC CCCCCC EEEEEEEEE XX XX
SSSSSS YY YY SSSSSSS FFFFFFFF 00 00 RRRRRRRR CCCCCC EEEEEEEEE XX XX
SSSSSS YY YY SSSSSSS FFFFFFFF 00 00 RRRRRRRR CCCCCC EEEEEEEEE XX XX
SS YY YY SS SSSSSSS FF FF 00 00 RR RR CC CCCCCC EEEEEEEEE XX XX
SS YY YY SS SSSSSSS FF FF 00 00 RR RR CC CCCCCC EEEEEEEEE XX XX
SS YY YY SS SSSSSSS FF FF 00 00 RR RR CC CCCCCC EEEEEEEEE XX XX
SSSSSS YY YY SSSSSSS FFFFFFFF 000000 RRR RR RR CCCCCC EEEEEEEEE XX XX
SSSSSS YY YY SSSSSSS FFFFFFFF 000000 RRR RR RR CCCCCC EEEEEEEEE XX XX

```

```

LL LL SSSSSSSS
LL LL SSSSSSSS
LL II SSSSSSSS
LL II SSSSSSSS
LL II SSSSSSSS
LL II SSSSSSSS
LL II SSSSSSSS
LL II SSSSSSSS
LL II SSSSSSSS
LLLLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLLLL IIIIII SSSSSSSS

```

(1)	39	HISTORY	; DETAILED
(1)	48	DECLARATIONS	
(1)	72	EXESFORCEX - FORCE EXIT SYSTEM SERVICE	

```

0000 1
0000 2      .TITLE  SYSFORCEX FORCE EXIT SYSTEM SERVICE
0000 3      .IDENT  'V04-000'
0000 4
0000 5
0000 6 :*****
0000 7 :*
0000 8 :*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 9 :*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 10 :*  ALL RIGHTS RESERVED.
0000 11 :*
0000 12 :*  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 13 :*  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 14 :*  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 15 :*  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 16 :*  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 17 :*  TRANSFERRED.
0000 18 :*
0000 19 :*  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 20 :*  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 21 :*  CORPORATION.
0000 22 :*
0000 23 :*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 24 :*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 25 :*
0000 26 :*
0000 27 :*****
0000 28
0000 29 :++
0000 30 : FACILITY: EXECUTIVE, SYSTEM SERVICES
0000 31
0000 32 : ABSTRACT:
0000 33
0000 34 : ENVIRONMENT:
0000 35
0000 36 :--
0000 37
0000 38 :      .PAGE
0000 39 :      .SBTTL  HISTORY                ; DETAILED
0000 40
0000 41 : AUTHOR:      R. HUSTVEDT      CREATION DATE: 1-OCT-76
0000 42
0000 43 : MODIFIED BY:
0000 44 :      : VERSION
0000 45 : 01  -
0000 46

```

```
0000 48          .SBTTL  DECLARATIONS
0000 49
0000 50 :
0000 51 : INCLUDE FILES:
0000 52 :
0000 53 :
0000 54          $ACBDEF          ; DEFINE AST CONTROL BLOCK
0000 55          $IPLDEF          ; DEFINE INTERRUPT PRIORITY LEVELS
0000 56          $PCBDEF          ; DEFINE PROCESS CONTROL BLOCK
0000 57          $PRDEF           ; DEFINE PROCESSOR REGISTERS
0000 58          $PRIDEF          ; DEFINE PRIORITY INCREMENT CLASSES
0000 59          $SSDEF           ; DEFINE STATUS CODES
0000 60
0000 61 :
0000 62 : EQUATED SYMBOLS:
0000 63 :
0000 64
00000000 0000 65 ASTEXIT=0          ; CHMK CODE FOR ASTEXIT
0000000C 0000 66 CODE=12          ; DISPLACEMENT TO CODE PARAMETER
0000 67 :
0000 68 : OWN STORAGE:
0000 69 :
0000 70
```

```

0000 72      .SBTTL EXES$FORCEX - FORCE EXIT SYSTEM SERVICE
0000 73
0000 74      :++
0000 75      : FUNCTIONAL DESCRIPTION:
0000 76
0000 77      : CALLING SEQUENCE:
0000 78      :   CALLG  ARGLIST,EXES$FORCEX
0000 79
0000 80      : INPUT PARAMETERS:
0000 81      :   PIDADR(AP) - ADDRESS OF PID (WRITTEN)
0000 82      :   PRCNAM(AP) - ADDRESS OF PROCESS LOGICAL NAME
0000 83      :   CODE(AP) - COMPLETION CODE TO BE USED FOR EXIT CALL
0000 84      :   R4 - PCB ADDRESS OF CURRENT PROCESS
0000 85
0000 86      : IMPLICIT INPUTS:
0000 87      :   NONE
0000 88
0000 89      : OUTPUT PARAMETERS:
0000 90      :   @PIDADR(AP) - PID OF PROCESS FOR WHICH EXIT WAS FORCED
0000 91      :   R0 - COMPLETION STATUS
0000 92
0000 93      : IMPLICIT OUTPUTS:
0000 94      :   NONE
0000 95
0000 96      : COMPLETION CODES:
0000 97      :   SSS_NORMAL - SUCCESSFUL COMPLETION
0000 98      :   SSS_INSMEM - INSUFFICIENT DYNAMIC MEMORY
0000 99      :   SSS_NONEXPR - NON-EXISTENT PROCESS
0000 100     :   SSS_NOPRIV - INSUFFICIENT PRIVILEGE TO CONTROL DETACHED PROCESS
0000 101
0000 102     : SIDE EFFECTS:
0000 103     :   NONE
0000 104
0000 105     :--
0000 106
0000 107     EXES$FORCEX::
0000 108     .WORD  ^M<R2,R3,R4,R5> ; FORCE EXIT SYSTEM SERVICE
0002 109     BSBW  EXES$NAMPID ; SAVE REGISTERS R2-R5
0005 110     SETIPL #0 ; CONVERT NAME-PID PAIR
0008 111     BLBC  R0,20$ ; DROP IPL
23 24 A4 2B 50 E9 0008 111     BLBC  R0,20$ ; EXIT IF ERROR
000B 112     BBSS  #PCBSV_FORCPEN,PCBSL_STS(R4),10$ ; FORCE EXIT ALREADY PENDING
0010 113     PUSHL R1 ; SAVE PID
0012 114     BSBW  EXES$ALLOCIRP ; ALLOCATE AST CONTROL BLOCK
0015 115     BLBC  R0,20$ ; EXIT IF ERROR
0018 116     MOVB  #3,ACBSB RMOD(R2) ; SET ACCESS MODE
001C 117     MOVL  (SP)+,ACBSL_PID(R2) ; SET PID OF DESTINATION
10 A2 37 AF 9E 0020 118     MOVAB  B^DOEXIT,ACBSL_AST(R2) ; AND ADDRESS OF AST ROUTINE
14 A2 0C AC DO 0025 119     MOVL  CODE(AP),ACBSL_ASTPRM(R2) ; SET CODE FOR EXIT CALL
002A 120     MOVL  R2,R5 ; AST CONTROL BLOCK ADDRESS FOR QAST
002D 121     MOVZBL #PRI$ RESAVL,R2 ; SET PRIORITY INCREMENT CLASS
0030 122     BSBW  SCH$QAST ; QUEUE ACB FOR TARGET PROCESS
0033 123     MOVZWL #SS$_NORMAL,R0 ; SET NORMAL COMPLETION STATUS
0036 124     RET ; AND RETURN TO CALLER
0037 125
0037 126

```

```
0037 128 :  
0037 129 : PERFORM EXIT AS A RESULT OF USER MODE AST IN THE CONTEXT OF THE  
0037 130 : TARGET PROCESS.  
0037 131 :  
0037 132 :  
0037 133 DOEXIT: :  
00 0000 0037 134 .WORD 0 : NULL REGISTER SAVE MASK  
BC 0039 135 CHMK #ASTEXIT : CLEAR AST ACTIVE FLAG  
0038 136 $EXIT_S 4(AP) : MAKE EXIT CALL  
0045 137 :  
0045 138 :  
0045 139 .END
```

SYSFORCEX
Symbol table

FORCE EXIT SYSTEM SERVICE

F 10

16-SEP-1984 02:07:50
5-SEP-1984 03:53:21

VAX/VMS Macro V04-00
[SYS.SRC]SYSFORCEX.MAR;1

Page 5
(1)

```

ACBSB_RMOD      = 00000008
ACBSL_AST       = 00000010
ACBSL_ASTPRM    = 00000014
ACBSL_PID       = 0000000C
ASTEXIT         = 00000000
CODE            = 0000000C
DOEXIT          00000037 R    01
EX$ALLOCIRP     ***** X    01
EX$FORCEX       00000000 RG   01
EX$SNAMPID      ***** X    01
PCBSL_STS       = 00000024
PCBSV_FORCPEN   = 00000002
PR$ IPL         = 00000012
PRIS RESAVL     = 00000002
SCH$QAST        ***** X    01
SS$ NORMAL      = 00000001
SYS$EXIT        ***** GX   01
  
```

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
. ABS :	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
. BLANK :	00000045 (69.)	01 (1.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
\$ABSS	000C0000 (0.)	02 (2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	31	00:00:00.06	00:00:01.17
Command processing	109	00:00:00.58	00:00:06.28
Pass 1	242	00:00:06.02	00:00:18.03
Symbol table sort	0	00:00:01.05	00:00:04.28
Pass 2	40	00:00:01.03	00:00:04.65
Symbol table output	4	00:00:00.03	00:00:00.04
Psect synopsis output	1	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	429	00:00:08.81	00:00:34.49

The working set limit was 1200 pages.
33261 bytes (65 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 667 non-local and 2 local symbols.
139 source lines were read in Pass 1, producing 12 object records in Pass 2.
15 pages of virtual memory were used to define 14 macros.

SY
VO

! Macro library statistics !

Macro library name	Macros defined
-----	-----
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	5
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	6
TOTALS (all libraries)	11

753 GETS were required to define 11 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SYSFORCEX/OBJ=OBJ\$:SYSFORCEX MSRC\$:SYSFORCEX/UPDATE=(ENH\$:SYSFORCEX)+EXECMLS/LIB

