


```

RRRRRRRR      EEEEEEEEEEE LL      EEEEEEEEEEE      AAAAAA      SSSSSSSS      EEEEEEEEEEE
RRRRRRRR      EEEEEEEEEEE LL      EEEEEEEEEEE      AAAAAA      SSSSSSSS      EEEEEEEEEEE
RR      RR      EE      LL      EE      AA      AA      SS      EE
RR      RR      EE      LL      EE      AA      AA      SS      EE
RR      RR      EE      LL      EE      AA      AA      SS      EE
RR      RR      EE      LL      EE      AA      AA      SS      EE
RRRRRRRR      EEEEEEEEEEE LL      EEEEEEEEEEE      AA      AA      SSSSSS      EEEEEEEEEEE
RRRRRRRR      EEEEEEEEEEE LL      EEEEEEEEEEE      AA      AA      SSSSSS      EEEEEEEEEEE
RR      RR      EE      LL      EE      AA      AA      SS      EE
RR      RR      EE      LL      EE      AA      AA      SS      EE
RR      RR      EE      LL      EE      AA      AA      SS      EE
RR      RR      EE      LL      EE      AA      AA      SS      EE
RR      RR      EE      LL      EE      AA      AA      SS      EE
RR      RR      EEEEEEEEEEE LLLLLLLLLLL EEEEEEEEEEE AA      AA      SSSSSSSS      EEEEEEEEEEE
RR      RR      EEEEEEEEEEE LLLLLLLLLLL EEEEEEEEEEE AA      AA      SSSSSSSS      EEEEEEEEEEE

```

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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
LLLLLLLLLLL IIIIII      SSSSSSSS
LLLLLLLLLLL IIIIII      SSSSSSSS

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COPYRIGHT NOTICE
PROGRAM DESCRIPTION
DECLARATIONS
SDASRELEASE_DUMP - RELEASE DUMP BLOCKS
RELEASE_DUMP_K - KERNEL MODE RELEASE

```
0000 1 .TITLE RELEASE DUMP FILE SPACE TO PAGE FILE
0000 2 .SBTTL COPYRIGHT NOTICE
0000 3 .IDENT 'V04-000'
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0000 5 :*****
0000 6 :*
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0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
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```
0000 29 .SBTTL PROGRAM DESCRIPTION
0000 30 :++
0000 31 : FACILITY
0000 32 :
0000 33 : SYSTEM DUMP ANALYZER
0000 34 :
0000 35 : ABSTRACT
0000 36 :
0000 37 : PRIVILEGED CODE TO RELEASE DUMP SPACE TO PAGE FILE IF NECESSARY
0000 38 :
0000 39 : ENVIRONMENT
0000 40 :
0000 41 : NATIVE MODE, KERNEL MODE
0000 42 :
0000 43 : AUTHOR
0000 44 :
0000 45 : PETER H. LIPMAN, APRIL, 1982
0000 46 :
0000 47 : MODIFIED BY:
0000 48 :
0000 49 : V03-001 BLS0309 Benn Schreiber 27-APR-1984
0000 50 : Use FULLDEVNAM rather than DEVNAM
```

0000	52	.SBTTL	DECLARATIONS	
0000	53	:		
0000	54	:	SYMBOL DEFINTIONS	
0000	55	:		
0000	56	\$DVIDEF		: DEVICE INFORMATION ITEM DEFINITIONS
0000	57	\$IPLDEF		: PROCESSOR PRIORITY LEVEL DEFINITIONS
0000	58	\$NAMDEF		: NAME BLOCK DEFINITIONS
0000	59	\$PRDEF		: PROCESSOR REGISTER DEFINITIONS
0000	60	\$SSDEF		: SYSTEM SERVICE CONDTION CODE DEF'S

```

0000 62 .SBTTL SDA$RELEASE_DUMP - RELEASE DUMP BLOCKS
0000 63 :---
0000 64 :
0000 65 SDA$RELEASE_DUMP
0000 66 :
0000 67 THIS ROUTINE RELEASES THE DUMP FILE BLOCKS TO THE PAGE FILE
0000 68 IF THE FILE IS THE PAGE FILE THAT SYSINIT INITIALIZED AND
0000 69 THE BLOCKS HAVE NOT PREVIOUSLY BEEN RELEASED
0000 70 :
0000 71 INPUTS:
0000 72 :
0000 73 4(AP) = NAM BLOCK ADDRESS FOR THE DUMP FILE
0000 74 :
0000 75 OUTPUTS:
0000 76 :
0000 77 R0 = $$$ WASSET IF THE DUMP FILE BLOCKS HAVE ACTUALLY BEEN
0000 78 RETURNED TO THE PAGE FILE
0000 79 = $$$ WASCLR IF THIS FILE WAS NOT THE PAGE FILE OR THE
0000 80 BLOCKS HAD PREVIOUSLY BEEN RELEASED
0000 81 = LBC IF ERROR
0000 82 :
0000 83 :---
0000 84 :
0000 85 SYSDEV_NAM_DSC:
59 53 24 53 59 53 00000008'010E0000' 0000 86 .ASCID /SYS$SYSDEVICE/
45 43 49 56 45 44 53 000E
0015 87
0015 88 .ENTRY SDA$RELEASE_DUMP,^M<R2,R3,R4,R5,R6>
5E 00000040 8F 007C 0015 89 .SUBL #64,SP ; RESERVE DEVICE NAME BUFFER
52 5E D0 001E 90 .MOVL SP,R2 ; SAVE ITS ADDRESS
53 7E DE 0021 91 .MOVAL -(SP),R3 ; RESERVE RETURN LENGTH, ADR TO R3
7E 7F D4 0024 92 .CLRL -(SP) ; END OF ITEM LIST
7E 52 7D 0026 93 .MOVQ R2,-(SP) ; PUSH ADR TO RETURN LENGTH
00E80040 8F DD 0029 94 .PUSHL #<DVI$_FULLDEVNAM>@16+64 ; PUSH ADR TO RETURN DEVICE NAME
50 5E D0 002F 95 .PUSHL #<DVI$_FULLDEVNAM>@16+64 ; LENGTH OF DEVICE NAME BUFFER
002F 96 .MOVL SP,R0 ; AND ITEM CODE FOR DEVICE NAME
0032 97 .$GETDVI_S ; ADDRESS 0 ITEM LIST
0032 98 .EFN=#0 -
0032 99 .DEVNAM=B^SYSDEV_NAM_DSC -
0032 100 .ITMLST=(R0)
37 50 E9 0049 101 .BLBC R0,30$
56 04 AC D0 0055 102 .$WAITFR_S EFN=#0
63 87 0059 103 .MOVL 4(AP),R6 ; GET NAM BLOCK ADDRESS
14 A6 63 91 005B 104 .DECW (R3) ; DON'T COUNT TRAILING COLON
1F 12 005F 105 .CMPB (R3),NAMST_DVI(R6) ; SIZE OF DEVICE NAMES MATCH?
15 A6 62 63 29 0061 106 .BNEQ 20$ ; BRANCH IF NOT
0066 107 .CMPC3 (R3),(R2),NAMST_DVI+1(R6) ; DEVICE NAMES MATCH?
0068 108 .BNEQ 20$ ; BRANCH IF NOT
0071 109 .CMPC3 #6,NAM$W_FID(R6),G^EXESGW_PGFL_FID ; IS THIS THE PAGE FILE?
0073 110 .BNEQ 20$ ; BRANCH IF NOT
007F 111 .$CMKRNL_S B^RELEASE_DUMP_K ; RELEASE THE BLOCKS
50 01 D0 0080 112 .RET
04 0083 113 .MOVL S^#$$$_WASCLR,R0
20$: 114 .RET
30$: 115 .RET

```

```

0084 117 .SBTTL RELEASE_DUMP_K - KERNEL MODE RELEASE
0084 118 :---
0084 119 :
0084 120 : RELEASE_DUMP_K
0084 121 :
0084 122 : THIS KERNEL MODE ROUTINE RELEASES THE DUMP FILE BLOCKS
0084 123 : TO THE PAGE FILE IF THEY HAVE NOT ALREADY BEEN RELEASED.
0084 124 :
0084 125 : INPUTS:
0084 126 :
0084 127 : NONE
0084 128 :
0084 129 : OUTPUTS:
0084 130 :
0084 131 : R0 = $$$_WASSET IF THE DUMP FILE BLOCKS HAVE ACTUALLY BEEN
0084 132 : RETURNED TO THE PAGE FILE
0084 133 : = $$$_WASCLR IF THERE WERE NO BLOCKS TO RELEASE
0084 134 :
0084 135 :---
0084 136 :
0084 137 .ENTRY RELEASE_DUMP_K, ^M<R2,R3>
01 DD 0086 138 PUSHL S^#$$$_WASCLR ; ASSUME NORMAL STATUS
51 00000000'GF DO 0088 139 10$: SETIPL 40$ ; AVOID RACE TO
21 13 008F 140 MOVL G^EXESGL_SAVEDUMP,R1 ; TO FETCH AND CLEAR THIS
53 00000000'GF 3C 0096 141 BEQL 20$ ; BRANCH IF ALREADY CLEAR
53 00000000'FF43 DO 0098 142 MOVZWL G^MMG$GW_MINPFIDX,R3 ; GET PAGEFILE INDEX FOR PAGEFILE.SYS
53 00000000'FF43 DO 009F 143 MOVL @MMG$GL_PAGSWPVC[R3],R3 ; PAGE FILE CONTROL BLOCK ADDRESS
50 01 DO 00A7 144 MOVL #1,R0 ; STARTING VBN TO RELEASE
00000000'GF 16 00AA 145 JSB G^MMG$DEALLOCPAGFIL ; DEALLOCATE BLOCKS TO PAGE FILE
00000000'GF D4 00B0 146 CLRL G^EXESGL_SAVEDUMP ; NOTE BLOCKS RELEASED
6E 09 DO 00B6 147 MOVL S^#$$$_WASSET,(SP) ; STATUS FOR BLOCKS RELEASED
01 BA 00B9 148 20$: SETIPL #0 ; DONE WITH SYNCHRONIZATION
04 00BC 149 30$: POPR #^M<R0>
00000008 00BE 150 RET
00C3 151 40$: .LONG IPL$_SYNCH
00C3 152
00C3 153 50$: ASSUME 50$-10$ LE 512
00C3 154
00C3 155 .END

```


RELEASE
Symbol table

DUMP FILE SPACE TO PAGE FILE

N 9

16-SEP-1984 01:45:56 VAX/VMS Macro V04-00
5-SEP-1984 03:33:45 [SDA.SRC]RELEASE.MAR;1

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RM
V04

```

$ST1 = 00000001
DVIS_FULLDEVNAM = 000000E8
EXESGL_SAVEDUMP ***** X 01
EXESGW_PGFL_FID ***** X 01
IPLS_SYNCH = 00000008
MMGSDEALLOCPAGFIL ***** X 01
MMGSGL_PAGSWPVC ***** X 01
MMGSGW_MINPFIDX ***** X 01
NAMST_DVI = 00000014
NAMSW_FID = 00000024
PRS_IPL = 00000012
RELEASE_DUMP_K 00000084 RG 01
SDASRELEASE_DUMP 00000015 RG 01
SSS_WASCLR = 00000001
SSS_WASSET = 00000009
SYS$CMKRNL ***** GX 01
SYS$GETDVI ***** GX 01
SYS$WAITFR ***** GX 01
SYSDEV_NAM_DSC 00000000 R 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 :	000000C3 (195.)	01 (1.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
\$ABSS	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	30	00:00:00.05	00:00:01.08
Command processing	110	00:00:00.44	00:00:03.58
Pass 1	271	00:00:05.03	00:00:22.25
Symbol table sort	1	00:00:00.82	00:00:04.01
Pass 2	44	00:00:00.84	00:00:05.59
Symbol table output	4	00:00:00.03	00:00:00.03
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	464	00:00:07.24	00:00:36.57

The working set limit was 1200 pages.
41057 bytes (81 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 823 non-local and 7 local symbols.
155 source lines were read in Pass 1, producing 18 object records in Pass 2.
19 pages of virtual memory were used to define 18 macros.

! Macro library statistics !

Macro library name	Macros defined
-----	-----
_\$255\$DUA28:[SDA.OBJ]SDALIB.MLB;1	0
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	2
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	13
TOTALS (all libraries)	15

946 GETS were required to define 15 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:RELEASE/OBJ=OBJ\$:RELEASE MSRC\$:RELEASE/UPDATE=(ENH\$:RELEASE)+EXECML\$/LIB+LIB\$:SDALIB/LIB

PROCESS
LIS

RMS
LIS

QAST
LIS

RELEASE
LIS

POOL
LIS