

SSSSSSSSSSSS	YYY	YYY	SSSSSSSSSSSS
SSSSSSSSSSSS	YYY	YYY	SSSSSSSSSSSS
SSSSSSSSSSSS	YYY	YYY	SSSSSSSSSSSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSSSSSSSSS	YYY	YYY	SSSSSSSSSS
SSSSSSSSSS	YYY	YYY	SSSSSSSSSS
SSSSSSSSSS	YYY	YYY	SSSSSSSSSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSS	YYY	YYY	SSS
SSSSSSSSSSSS	YYY	YYY	SSSSSSSSSSSS
SSSSSSSSSSSS	YYY	YYY	SSSSSSSSSSSS
SSSSSSSSSSSS	YYY	YYY	SSSSSSSSSSSS

```

SSSSSSSS YY YY SSSSSSS DDDDDDD EEEEEEEEE RRRRRRR LL MM MM 8888888
SSSSSSSS YY YY SSSSSSS DDDDDDD EEEEEEEEE RRRRRRR LL MM MM 8888888
SS SS YY YY SS SSSSSSS DD DD EE EEEEEEEEE RRRRRRR LL LL MMMM MMM 88 88
SS SS YY YY SS SSSSSSS DD DD EE EEEEEEEEE RRRRRRR LL LL MMMM MMM 88 88
SS SS YY YY SS SSSSSSS DD DD EE EEEEEEEEE RRRRRRR LL LL MM MM MM 88 88
SSSSSSS YY YY SSSSSS DD DD EEEEEEE RRRRRRR LL LL MM MM 8888888
SSSSSSS YY YY SSSSSS DD DD EEEEEEE RRRRRRR LL LL MM MM 8888888
SS SS YY YY SS SSSSSS DD DD EE EEEEEEE RRRRRRR LL LL MM MM 88 88
SS SS YY YY SS SSSSSS DD DD EE EEEEEEE RRRRRRR LL LL MM MM 88 88
SSSSSSS YY YY SSSSSSS DDDDDDD EEEEEEEEE RRR RR LLLLLLLLLL MM MM 8888888
SSSSSSS YY YY SSSSSSS DDDDDDD EEEEEEEEE RRR RR LLLLLLLLLL MM MM 8888888

```

```

LL LL 11111 SSSSSSS
LL LL 11111 SSSSSSS
LL LL 11 SS
LL LL 11 SS
LL LL 11 SS
LL LL 11 SSSSSS
LL LL 11 SSSSSS
LL LL 11 SS
LL LL 11 SS
LL LL 11 SS
LLLLLLLLLL 11111 SSSSSSS
LLLLLLLLLL 11111 SSSSSSS

```

(1) 48
(1) 75

DECLARATIONS
SYSDERLMBX - DECLARE ERROR LOG MAILBOX

```

0000 1 .TITLE SYSDERLMB - DECLARE ERROR LOG MAILBOX YSSTEM SERVICE
0000 2 .IDENT 'V04-000'
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 :++
0000 30 : FACILITY: EXECUTIVE, SYSTEM SERVICES
0000 31
0000 32 : ABSTRACT:
0000 33 : SYSDERLMB IMPLEMENTS THE DECLARE ERROR LOG MAILBOX SYSTEM SERVICE
0000 34 : WHICH ENABLES A DIAGNOSTIC OR OTHER PRIVILEGED PROGRAM TO REQUEST
0000 35 : THAT A COPY OF ALL ERROR LOG RECORDS BE WRITTEN A SPECIFIED MAILBOX
0000 36 : UNIT.
0000 37
0000 38
0000 39 : ENVIRONMENT:
0000 40 : KERNEL MODE
0000 41 : AUTHOR: R. I. HUSTVEDT . CREATION DATE: 19-SEP-77
0000 42
0000 43 : MODIFIED BY:
0000 44
0000 45 : : VERSION
0000 46 : 01 -
0000 47 : --
0000 48 : .SBTTL DECLARATIONS
0000 49
0000 50 : INCLUDE FILES:
0000 51
0000 52
0000 53 $IPLDEF ; DEFINE IPL VALUES
0000 54 $PCBDEF ; DEFINE PCB OFFSETS
0000 55 $PRDEF ; DEFINE PROCESSOR REGISTERS
0000 56 $PRVDEF ; DEFINE PRIVILEGE BIT NUMBERS
0000 57 $SSDEF ; DEFINE STATUS CODE VALUES

```

```
0000 58 :  
0000 59 : MACROS:  
0000 60 :  
0000 61 :  
0000 62 :  
0000 63 : EQUATED SYMBOLS:  
0000 64 :  
00000000 0000 65 UNIT=0 ; UNIT FIELD OF ERROR LOG MAILBOX DESCRIPTOR  
00000004 0000 66 PID=4 ; PROCESS ID FIELD OF ERROR LOG MAILBOX DESC  
00000004 0000 67 :  
00000004 0000 68 MBXUNT=4 ; MAILBOX UNIT ARGUMENT LIST OFFSET  
0000 69 :  
0000 70 :  
0000 71 : OWN STORAGE:  
0000 72 :  
0000 73 :
```

```

0000 75      .SBTTL  SYSDERLMBX - DECLARE ERROR LOG MAILBOX
0000 76      :++
0000 77      : FUNCTIONAL DESCRIPTION:
0000 78      : EXE$DERLMBX SETS THE ERRORLOG MAILBOX DESCRIPTOR TO POINT TO A
0000 79      : SPECIFIED MAILBOX UNIT. ONLY ONE PROCESS MAY ASSIGN A MAILBOX UNIT
0000 80      : TO THE ERROR LOG AT ONE TIME. IF THE ERROR LOG MAILBOX IS ALREADY
0000 81      : ASSIGNED TO ANOTHER PROCESS, THE ERROR STATUS CODE S$$ DEVALLOC
0000 82      : IS RETURNED. WHEN A PROCESS IS FINISHED WITH THE ERROR LOG MAILBOX
0000 83      : IT SHOULD ASSIGN A UNIT NUMBER OF 0(ZERO). EXE$RUNDWN WILL DO THIS
0000 84      : IN CASE THE IMAGE NEGLECTS TO EXIT CORRECTLY.
0000 85      :
0000 86      : CALLING SEQUENCE:
0000 87      : CALLG  ARGLIST,EXE$DERLMBX
0000 88      :
0000 89      : INPUT PARAMETERS:
0000 90      : MBXUNT(AP) - MAILBOX UNIT NUMBER
0000 91      : R4 - PCB ADDRESS OF CURENT PROCESS
0000 92      :
0000 93      : IMPLICIT INPUTS:
0000 94      : PCB AND PROCESS HEADER OF CURRENT PROCESS
0000 95      :
0000 96      : OUTPUT PARAMETERS:
0000 97      : R0 - COMPLETION STATUS CODE
0000 98      :
0000 99      : IMPLICIT OUTPUTS:
0000 100     : NONE
0000 101     :
0000 102     : COMPLETION CODES:
0000 103     : S$$_NORMAL - NORMAL SUCCESSFUL COMPLETION
0000 104     : S$$_NOPRIV - PROCESS DOES NOT HAVE DIAGNOSTIC PRIVILEGE
0000 105     : S$$_DEVALLOC - ERROR LOG MAILBOX UNIT ALREADY DECLARED BY ANOTHER
0000 106     : PROCESS.
0000 107     :
0000 108     : SIDE EFFECTS:
0000 109     : NONE
0000 110     :
0000 111     :--
0000 112     :
0000 113     :
0000 114     EXE$DERLMB::
0000 115     .WORD  ^M<R2,R3,R4,R5>          ; SAVE R2-R5
0002 116     :
0002 117     MOVZWL #S$$ NOPRIV,R0          ; ASSUME NO PRIVILEGE
50  24 3C 0002 118     IFNPRIV DIAGNOSE,EXIT      ; EXIT WITH ERROR STATUS IF NO PRIVILEGE
0005 119     MOVZWL #S$$ DEVALLOC,R0        ; ASSUME 'DEVICE' ALLOCATED
50 0840 8F 3C 000B 119     MOVAB W^EXE$GQ ERLMBX,R5      ; SET ADDRESS OF ERRORLOG MAILBOX DESCRIPTOR
55 0000'CF 9E 0010 120     DSBINT #IPL$ SYNCH          ; INHIBIT SYSTEM EVENT REPORTING
0015 121     TSTW UNIT(R5)                ; TEST FOR ALREADY ASSIGNED
65  B5 001B 122     BEQL 10$              ; NOT ASSIGNED
07  13 001D 123     CMPL PCB$L PID(R4),PID(R5)    ; CHECK FOR CURRENT PROCESS
04 A5 60 A4 D1 001F 124     BNEQ EXITEN          ; NO, EXIT WITH DEVALLOC ERROR
04 A5 60 A4 D0 0024 125     MOVL PCB$L PID(R4),PID(R5)    ; SET PID OF OWNER
65  04 AC B0 002B 126 10$: MOVW MBXUNT(AP),UNIT(R5)    ; SET ERRORLOG MAILBOX UNIT NUMBER
03  12 002F 128     BNEQ 20$              ; BR IF ACTUAL UNIT
04 A5 D4 0031 129     CLRL PID(R5)                ; ZAP PID OF MAILBOX OWNER
50  01 D0 0034 130 20$: MOVL #S$$_NORMAL,R0    ; SET NORMAL COMPLETION STATUS
0037 131 EXITEN: ENBINT          ; ENABLE SYSTEM EVENT REPORTING

```

SYSDERLMB
V04-000

B 11

- DECLARE ERROR LOG MAILBOX YSSTEM SERVI 16-SEP-1984 01:59:29 VAX/VMS Macro V04-00
SYSDERLMBX - DECLARE ERROR LOG MAILBOX 5-SEP-1984 03:52:35 [SYS.SRC]SYSDERLMB.MAR;1

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(1)

S
V

```
04 003A 132 EXIT: RET ; RETURN
    003B 133
    003B 134
    003B 135 .END
```

SYSDERLMB
Symbol table

```

EXESDERLMB      00000000 RG      01
EXESGQ_ERLMBX  ***** X      01
EXIT           0000003A R      01
EXITEN        00000037 R      01
IPLS SYNCH    = 00000008
MBXUNT        = 00000004
PCBSL_PID     = 00000060
PCBSQ_PRIV    = 00000084
PID           = 00000004
PRS IPL       = 00000012
PRVSV DIAGNOSE = 00000006
SS$ DEVALLOC  = 00000840
SS$ NOPRIV    = 00000024
SS$ NORMAL    = 00000001
UNIT          = 00000000
  
```

+-----+
! 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 :	0000003B (59.)	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	29	00:00:00.04	00:00:00.41
Command processing	105	00:00:00.55	00:00:02.10
Pass 1	248	00:00:06.44	00:00:22.59
Symbol table sort	0	00:00:01.08	00:00:03.98
Pass 2	42	00:00:01.10	00:00:02.44
Symbol table output	3	00:00:00.04	00:00:00.03
Psect synopsis output	2	00:00:00.32	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	431	00:00:09.27	00:00:31.58

The working set limit was 1050 pages.
35074 bytes (69 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 714 non-local and 2 local symbols.
135 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.

0383 AH-BT13A-SE
VAX/VMS V4.0

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The image displays a large grid of 14 columns and 12 rows of small, low-contrast images. Each cell contains a faint, illegible representation of what appears to be a computer screen or document page. The images are too small to read but seem to follow a consistent layout, possibly representing a set of system screens or a directory of files. Some of the larger, more legible text within the grid includes:

- SYSCRMPSC LIS
- SYSDCLEXH LIS
- SYSDVALC LIS
- SYSCURTIM LIS
- SYSDGBLSC LIS
- SYSTEMREQ LIS
- SYSDCLMHLIS LIS
- SYSDERLMB LIS
- SYSDASSGN LIS
- SYSDLPRL LIS