



```

EEEEEEEEEE  RRRRRRRR  RRRRRRRR  DDDDDDDD  EEEEEEEEEE  FFFFFFFFFF
EEEEEEEEEE  RRRRRRRR  RRRRRRRR  DDDDDDDD  EEEEEEEEEE  FFFFFFFFFF
EE           RR        RR        RR        DD        DD  EE           FF
EE           RR        RR        RR        DD        DD  EE           FF
EE           RR        RR        RR        DD        DD  EE           FF
EE           RR        RR        RR        DD        DD  EE           FF
EEEEEEEEEE  RRRRRRRR  RRRRRRRR  DD        DD  EEEEEEEEEE  FFFFFFFF
EEEEEEEEEE  RRRRRRRR  RRRRRRRR  DD        DD  EEEEEEEEEE  FFFFFFFF
EE           RR  RR    RR  RR    DD        DD  EE           FF
EE           RR  RR    RR  RR    DD        DD  EE           FF
EE           RR    RR  RR  RR    DD        DD  EE           FF
EE           RR    RR  RR  RR    DD        DD  EE           FF
EEEEEEEEEE  RR        RR    RR    RR    DDDDDDDD  EEEEEEEEEE  FF
EEEEEEEEEE  RR        RR    RR    RR    DDDDDDDD  EEEEEEEEEE  FF

```

```

....
....
....
....

```

```

MM          MM  DDDDDDDD  LL
MM          MM  DDDDDDDD  LL
MMM        MMM  DD        DD  LL
MMM        MMM  DD        DD  LL
MM  MM    MM  DD        DD  LL
MM  MM    MM  DD        DD  LL
MM          MM  DD        DD  LL
MM          MM  DD        DD  LL
MM          MM  DD        DD  LL
MM          MM  DD        DD  LL
MM          MM  DD        DD  LL
MM          MM  DDDDDDDD  LLLLLLLLLL
MM          MM  DDDDDDDD  LLLLLLLLLL

```

ERROR LOG FORMAT PROGRAM OUTPUT MESSAGES

Version 'V04-000'

```

*****
*
* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
* DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
* ALL RIGHTS RESERVED.
*
* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
* INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
* COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
* OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
* TRANSFERRED.
*
* THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
* AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
* CORPORATION.
*
* DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
*
*****

```

\*\*\*\*\* CAUTION \*\*\*\*\*

ALL OF THE ERFxxDEF STRUCTURES ASSUME THAT THE HEADER IS EXACTLY FOUR LONGWORD IN LENGTH. IF THIS FIELD CHANGES, IT AFFECTS ALL OF THE OTHER STRUCTURES. THAT IS TO SAY ALL MESSAGES HAVE TYPE, TIME, AND ERROR SEQUENCE IN THE SAME RELATIVE LOCATIONS.

ERROR MESSAGE HEADER

```

$STRUCT ERF,HDDEF
F      HD_SID,L           ; SYSTEM ID #
F      HD_ENTRY,W        ; ENTRY TYPE
S      HD_DCLASS,,B      ; DEVICE CLASS
V      <M
      HD_TYPE,7          ; THE TYPE IS 7 BITS
      HD_INVALID         ; THE INVALID FLAG
      >
S      HD_DTYPE,,B       ; DEVICE TYPE
F      HD_TIME,Q         ; TIME IN 64 BIT FORMAT
F      HD_ERRSEQ,W       ; NEXT UNIVERSAL ERR SEQ #
L      HD_LENGTH         ; LENGTH OF HEADER
E

```

BUGCHECK ERROR MESSAGE BUFFER FORMAT (SYSTEM AND USER)

ERI  
VO  
53  
52

22  
20  
20

```

$STRUCT ERF,BCDEF          :BUG CHECK ENTRY FORMAT
F          ,L,4            :ALLOW SPACE FOR THE HEADER
F          BC_KSP,L        :KERNEL STACK POINTER
F          BC_ESP,L        :EXECUTIVE STACK POINTER
F          BC_SSP,L        :SUPERVISOR STACK POINTER
F          BC_USP,L        :USER STACK POINTER
F          BC_ISP,L        :INTERRUPT STACK POINTER
F          BC_R0,L         :REGISTER R0
F          BC_R1,L         :REGISTER R1
F          BC_R2,L         :REGISTER R2
F          BC_R3,L         :REGISTER R3
F          BC_R4,L         :REGISTER R4
F          BC_R5,L         :REGISTER R5
F          BC_R6,L         :REGISTER R6
F          BC_R7,L         :REGISTER R7
F          BC_R8,L         :REGISTER R8
F          BC_R9,L         :REGISTER R9
F          BC_R10,L        :REGISTER R10
F          BC_R11,L        :REGISTER R11
F          BC_AP,L         :ARGUMENT POINTER
F          BC_FP,L         :FRAME POINTER
F          BC_SP,L         :CURRENT STACK POINTER
F          BC_PC,L         :PROGRAM COUNTER
F          BC_PSL,L        :PROCESSOR STATUS
F          BC_CODE,L       :BUGCHECK CODE
F          BC_PCBSZ,W      :SIZE OF PCB IN BYTES
L          BC_LENGTH      :SIZE OF FIXED PART OF BUGCHECK MESSAGE
E          BC_PCB,B        :START OF SOFTWARE PCB
:

```

```

:
: CRASH-RESTART ERROR MESSAGE BUFFER FORMAT
:

```

```

$STRUCT ERF,CRDEF         :CRASH RESTART RECORD FORMAT
F          ,L,4            :ALLOW SPACE FOR THE HEADER
F          CR_KSP,L        :KERNEL STACK POINTER
F          CR_ESP,L        :EXECUTIVE STACK POINTER
F          CR_SSP,L        :SUPERVISOR STACK POINTER
F          CR_USP,L        :USER STACK POINTER
F          CR_ISP,L        :INTERRUPT STACK POINTER
F          CR_R0,L         :REGISTER R0
F          CR_R1,L         :REGISTER R1
F          CR_R2,L         :REGISTER R2
F          CR_R3,L         :REGISTER R3
F          CR_R4,L         :REGISTER R4
F          CR_R5,L         :REGISTER R5
F          CR_R6,L         :REGISTER R6
F          CR_R7,L         :REGISTER R7
F          CR_R8,L         :REGISTER R8
F          CR_R9,L         :REGISTER R9
F          CR_R10,L        :REGISTER R10
F          CR_R11,L        :REGISTER R11

```

```

F      CR_AP,L      :ARGUMENT POINTER
F      CR_FP,L      :FRAME POINTER
F      CR_SP,L      :CURRENT STACK POINTER
F      CR_PC,L      :PROGRAM COUNTER
F      CR_PSL,L     :PROCESSOR STATUS
F      CR_POBR,L    :PROGRAM REGION BASE REGISTER
F      CR_POLR,L    :PROGRAM REGION LIMIT REGISTER
F      CR_P1BR,L    :CONTROL REGION BASE REGISTER
F      CR_P1LR,L    :CONTROL REGION LIMIT REGISTER
F      CR_SBR,L     :SYSTEM BASE REGISTER
F      CR_SLR,L     :SYSTEM LIMIT REGISTER
F      CR_PCBB,L    :PROCESS CONTROL BLOCK BASE REGISTER
F      CR_SCBB,L    :SYSTEM CONTROL BLOCK BASE REGISTER
F      CR_ASTLVL,L  :AST DELIVERY LEVEL REGISTER
F      CR_SISR,L    :SOFTWARE INTERRUPT SUMMARY REGISTER
F      CR_ICCS,L    :INTERVAL TIMER CONTROL STATUS REGISTER
F      CR_ICR,L     :INTERVAL COUNT REGISTER
F      CR_TODR,L    :TIME OF DAY REGISTER
F      CR_ACCS,L    :ACCELERATOR CONTROL REGISTER
F      CR_SBIFS,L   :SBI FAULT STATUS REGISTER
F      CR_SBISC,L   :SBI COMPARATOR REGISTER
F      CR_SBIMT,L   :SBI MAINTENANCE REGISTER
F      CR_SBIER,L   :SBI ERROR REGISTER
F      CR_SBITA,L   :SBI TIMEOUT ADDRESS REGISTER
F      CR_SBIS,L,16 :SBI SILO REGISTER
F      CR_CODE,L    :BUGCHECK/CRASH CODE
F      CR_PCBSZ,W   :SIZE OF PCB IN BYTES
L      CR_LENGTH    :SIZE OF FIXED PART OF BUGCHECK MESSAGE
E

```

```

:
: DEVICE ERROR MESSAGE BUFFER FORMAT (ERROR AND TIMEOUT)
:

```

```

$STRUCT ERF,DVDEF      :DEVICE ERROR RECORD FORMAT

F      ,L,4           :ALLOW SPACE FOR THE HEADER
F      DV_ERTCNT,B    :REMAINING NUMBER OF ERROR RETRIES
F      DV_ERTMAX,B    :MAXIMUM NUMBER OF ERROR RETRIES
F      DV_IOSB,Q      :FINAL I/O STATUS
F      DV_DEVS,S,W    :FINAL DEVICE STATUS
F      DV_CLASS,B     :DEVICE CLASS
F      DV_TYPE,B      :DEVICE TYPE
F      DV_RQPID,L     :REQUESTER PROCESS ID
F      DV_BOFF,W      :BYTE OFFSET IN PAGE
F      DV_BCNT,W      :TRANSFER BYTE COUNT
F      DV_MEDIA,L     :STARTING MEDIA ADDRESS
F      DV_UNIT,W      :PHYSICAL UNIT NUMBER
F      DV_ERRCNT,W    :UNIT ERROR COUNT
F      DV_OPcnt,L     :UNIT OPERATION COUNT
F      DV_OWNUIC,L   :VOLUME OWNER UIC
F      DV_CHAR,L     :DEVICE CHARACTERISTICS
F      DV_SLAVE,B    :SLAVE CONTROLLER NUMBER
F      ,B,1           :SPARE UNUSED BYTES
F      DV_FUNC,W     :I/O FUNCTION VALUE
F      DV_NAME,T,16  :DEVICE NAME

```

```

F      DV_REGSAV,L      ;START OF REGISTER SAVE AREA
E

```

```

:
: TIME STAMP MSG FORMAT
:

```

```

$STRUCT ERF,TSDEF      ;TIME STAMP RECORD FORMAT
F      ,L,4            ;ALLOW SPACE FOR THE HEADER
L      TS_LENGTH       ;LENGTH OF TIME STAMP MSG
E

```

```

:
: SYSTEM SERVICE MESSAGE
:

```

```

NOTE:  SYSTEM SERVICE MESSAGE COVERS:

```

- 1) THE MESSAGES FROM THE SERVICE
- 2) OPERATOR MESSAGES
- 3) NETWORK MESSAGES

```

ONLY THE TYPE FIELD IS DIFERENT

```

```

$STRUCT ERF,SSDEF      ;SYSTEM SERVICE RECORD FORMAT
F      ,L,4            ;ALLOW SPACE FOR THE HEADER
F      SS_MSGSZ,W      ;MESSAGE TEXT SIZE IN BYTES
L      SS_LENGTH       ;LENGTH OF CONSTANT PART
F      SS_MSGTXT,B     ;FIRST BYTE OF MESSAGE TEXT
E

```

```

:
: VOLUME MOUNT/DISMOUNT MESSAGE TYPE
:

```

```

$STRUCT ERF,VMDEF      ;VOLUME MOUNT RECORD FORMAT
F      ,L,4            ;ALLOW SPACE FOR THE HEADER
F      VM_OWNUIC,L     ;OWNER UIC OF THE VOLUME
F      VM_ERRCNT,L     ;UNIT ERROR COUNT FROM UCB
F      VM_OPRCNT,L     ;UNIT OPERATION COUNT FROM UCB
F      VM_UNIT,W       ;DEVICE UNIT NUMBER
F      VM_NAMLNG,B     ;LENGTH OF DEVICE GENERIC NAME
F      VM_NAMTXT,T,15  ;DEVICE GENERIC NAME
F      VM_VOLNUM,W     ;VOLUME NUMBER WITHIN SET
F      VM_NUMSET,W     ;NUMBER OF VOLUMES WITHIN SET
F      VM_LABEL,T,12   ;VOLUME LABEL
E

```

```

:
: SYSTEM STARTUP MESSAGE
:

```

```

$STRUCT ERF,SUDEF      ;SYSTEM UP MESSAGE BUFFER
F      ,L,4            ;ALLOW SPACE FOR THE HEADER

```

```

F      SU_DAYTIM,L      ;CONTENTS OF TIME OF DAY CLOCK
L      SU_LENGTH        ;LENGTH OF MESSAGE
E

```

```

:
: MACHINE CHECK LOG BUFFER FORMAT
:

```

```

$STRUCT ERF,MCDEF

F      ,L,4              ;ALLOW SPACE FOR THE HEADER
F      MC_SUMCOD,B      ;SUMMARY CODE
F      MC_TOPF,B        ;TIME OUT PENDING FLAG
F      MC_OPCODE,B      ;OPCODE OF INSTRUCTION CAUSING CHECK
F      MC_UNUSED,B      ;UNUSED
F      MC_CES,L         ;CPU ERROR STATUS
F      MC_UPC,L         ;MICRO-PC AT FAULT TIME
F      MC_VA,L          ;VIRTUAL ADDRESS AT FAULT TIME
F      MC_D,L           ;CPU D REGISTER AT FAULT TIME
F      MC_TBER0,L       ;TRANSLATION BUFFER STATUS REG 0
F      MC_TBER1,L       ;TRANSLATION BUFFER STATUS REG 1
F      MC_TMOAD,L       ;PHYSICAL ADDRESS CAUSING SBI TIMEOUT
F      MC_PARITY,L      ;CACHE STATUS REGISTER
F      MC_SBIERR,L      ;SBI ERROR REGISTER
F      MC_PC,L          ;PC OF INSTRUCTION CAUSING CHECK
F      MC_PSL,L         ;PSL OF MACHINE AT FAULT TIME
L      MC_LENGTH        ;LENGTH OF MACHINE CHECK FRAME
E

```

```

:
: SOFT ECC DETECTED ERRORS AND SBI ALERT BUFFER FORMAT
:

```

```

$STRUCT ERF,SEDEF      ;

F      ,L,4              ;ALLOW SPACE FOR THE HEADER
F      SE_NUMCON,L      ;NUMBER OF MEMORY CONTROLLERS
L      SE_LENGTH        ;LENGTH OF FIXED PART OF MSG
F      SE_TR,L          ;ADAPTOR TR NUMBER
F      SE_A,L           ;MEMORY REGISTER A
F      SE_B,L           ;MEMORY REGISTER B
F      SE_C,L           ;MEMORY REGISTER C
F      SE_PC,L          ;PC OF INSTRUCTION AT FAULT TIME
F      SE_PSL,L         ;PSL OF MACHINE AT FAULT TIME
E

```

```

:
: SBI FAULT BUFFER FORMAT AND ASYNCHRONOUS WRITE ERROR FORMAT
:

```

```

$STRUCT ERF,SBDEF      ;SBI FAULT RECORD FORMAT

F      ,L,4              ;ALLOW SPACE FOR THE HEADER
F      SB_FAULT,L       ;SBI FAULT/STATUS REGISTER
F      SB_SILCMP,L      ;SBI SILO COMPARATOR

```

```
F SB_MAINT,L           ;SBI MAINTENANCE
F SB_ERROR,L          ;SBI ERROR REG
F SB_TIMEOUT,L        ;SBI TIMEOUT REG
F SB_SILO,L,16        ;SBI SILO REG
F SB_SIRGS,L,16       ;REGISTER A'S ON BUS (OR 0)
F SB_PC,L             ;PC OF INSTRUCTION AT FAULT TIME
F SB_PSL,L            ;PSL OF MACHINE AT FAULT TIME
L SB_LENGTH           ;LENGTH OF SBI ERROR BUFFER
E
```



This page displays a grid of 100 individual document thumbnails, arranged in 10 rows and 10 columns. Each thumbnail represents a different technical document or manual page, likely related to VAX/VMS system components or utilities. The thumbnails are arranged in a grid pattern across the page.

Visible titles and labels within the thumbnails include:

- LIBRARY B32
- LIBTAIL B32
- UTILDEF REQ
- CONSOLE LIS
- ERRDEF MDL
- EVLDEF MDL
- EVL
- LIBHEAD B32
- WQDEF MDL
- ERRFMT
- ERRFMT MAP
- ERRFMT LIS
- EVL MAP
- VAXPSL LIS
- VAX780REG LIS
- VAX750REG LIS
- VECMAPREG LIS
- USEROPEN LIS
- XXXXQUE LIS
- ERRDEF MDL
- EVLDEF MDL

The thumbnails vary in size and content, showing snippets of text, diagrams, and structured data. Some thumbnails show header information, including "AH-BT13A-SE" and "VAX/VMS V4.0".