The VMS Operating System maintains a System Event File called ERRLOG.SYS. The file is located in the SYS$SYSROOT:[SYSERR] directory and is used to record certain events that occur during system operation. The types of events that are recorded in the event file are listed in Table 1.

Table 1 Error Message Entry Type Definitions

<table>
<thead>
<tr>
<th>Entry Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Device Error</td>
</tr>
<tr>
<td>02</td>
<td>Machine Check</td>
</tr>
<tr>
<td>04</td>
<td>Bus Error</td>
</tr>
<tr>
<td>05</td>
<td>SBI Alert</td>
</tr>
<tr>
<td>06</td>
<td>Soft ECC Error</td>
</tr>
<tr>
<td>07</td>
<td>Asynchronous Write Error</td>
</tr>
<tr>
<td>08</td>
<td>Hard ECC Error</td>
</tr>
<tr>
<td>09</td>
<td>11/780 Unibus Adapter error</td>
</tr>
<tr>
<td>10</td>
<td>11/750 Fault Through SBI Vector</td>
</tr>
<tr>
<td>11</td>
<td>11/730 Unibus Error</td>
</tr>
<tr>
<td>12</td>
<td>11/780 Massbus Adapter Error</td>
</tr>
<tr>
<td>13</td>
<td>11/790 SBIA Error</td>
</tr>
<tr>
<td>14</td>
<td>11/790 CRD Log</td>
</tr>
<tr>
<td>15</td>
<td>11/790 Environmental Monitor</td>
</tr>
<tr>
<td>16</td>
<td>11/790 Processor Error Halt</td>
</tr>
<tr>
<td>17</td>
<td>11/790 Console Reboot</td>
</tr>
<tr>
<td>32</td>
<td>Cold Start (ie: System Boot)</td>
</tr>
<tr>
<td>35</td>
<td>New File Created</td>
</tr>
<tr>
<td>36</td>
<td>Warm Start (ie: System Power Recovery)</td>
</tr>
<tr>
<td>37</td>
<td>Crash Re-start</td>
</tr>
<tr>
<td>38</td>
<td>Time Stamp Entry</td>
</tr>
<tr>
<td>39</td>
<td>System Service Message</td>
</tr>
<tr>
<td>40</td>
<td>System Bugcheck</td>
</tr>
<tr>
<td>41</td>
<td>Operator Message</td>
</tr>
<tr>
<td>42</td>
<td>Network Message</td>
</tr>
<tr>
<td>64</td>
<td>Volume Mount</td>
</tr>
<tr>
<td>65</td>
<td>Volume Dismount</td>
</tr>
<tr>
<td>96</td>
<td>Device Timeout</td>
</tr>
<tr>
<td>97</td>
<td>Undefined Interrupt</td>
</tr>
<tr>
<td>98</td>
<td>Asynchronous Device Attention</td>
</tr>
<tr>
<td>99</td>
<td>Software Parameters</td>
</tr>
<tr>
<td>100</td>
<td>Logged Message</td>
</tr>
<tr>
<td>101</td>
<td>Logged MSCP Message</td>
</tr>
<tr>
<td>112</td>
<td>User Bugcheck</td>
</tr>
<tr>
<td>273</td>
<td>Unknown Entry</td>
</tr>
</tbody>
</table>

Each time one of these events occur, the normal operation of VMS is interrupted and a special routine is called to handle the event. The routine requests a System Event Buffer and then gathers predefined information about the event (e.g., system status, hardware and software registers, etc.) and puts it in the
buffer. Once the buffer is built the routine queues the buffer to be appended to the System Event File. When the queue is processed the buffer is appended to SYS$SYSROOT:[SYSERR]ERRLOG.SYS. This process takes place anytime one of the events listed in Table 1 occur.

Two programs (ANALYZE/ERRORLOG and RETRIEVE - a Spear Library function) are available to translate the contents of the System Event File into ASCII reports. Both of these programs use the Error Log Formatter (ERF) to translate the entries in the Event File. Therefore, regardless of which program you use the format of the translated entries will be the same. The main difference between the two programs is the command syntax, the selection criteria, and the format of the Summary reports they produce. In addition to translating system event file entries Spear is capable of analyzing the contents of the event file and calculating system availability.

ANALYZE/ERRORLOG

ANALYZE/ERRORLOG uses a non-interactive command syntax. That is, the Command, Qualifiers and Arguments, are entered in a single string. The Qualifiers allow you to select specific entries from a binary System Event File and either produce a separate binary event file that contains only those entries, or translate the entries and produce an ASCII Report. For a complete description of the this utility, including more information about the ANALYZE/ERRORLOG command and its qualifiers, see the VAX/VMS Utilities Reference Volume.

COMMAND SYNTAX:

```
ANALYZE/ERROR_LOG [/qualifier=argument][,...] [file-spec[,...]]<cr>
```

- The base command can be abbreviated to ANA/ERR.
- All Qualifiers are preceded by a slash.
- Multiple Arguments to a Qualifier are separated by a comma.
- In some cases special characters such as the equal sign, parens, and colon are required. If the qualifier requires special characters they will appear in the syntax examples shown in Table 2.
THE VMS SYSTEM EVENT FILE

Table 2 summarizes the qualifiers and defaults associated with ANALYZE/ERROR_LOG. The full qualifier is spelled out in the left column. In the syntax example to the right of the column the qualifier is abbreviated to its most common form. The effect of the qualifier is described below the syntax example.

Table 2 ANALYZE/ERROR_LOG Command Qualifiers and Defaults

ANALYZE/ERROR_LOG ANA/ERR<cr>
Translate the entire system event file SYS$SYSROOT:[SYSERR]ERRLOG.SYS and output a full ASCII report of each entry on the terminal.

This is the default case. The defaults are as follows:

INPUT FILE - The default input file spec is SYS$SYSROOT:[SYSERR]ERRLOG.SYS.

OUTPUT - The default output is an ASCII report, which is sent to SYS$OUTPUT. The system default for SYS$OUTPUT is your terminal.

QUALIFIERS - The default qualifiers are: /FULL /ENTRY=(START:1,END:EOF)

ANALYZE/ERROR_LOG ANA/ERR ERRLOG.OLD<cr>
Translate the entire system event file specified (ERRLOG.OLD;5) and output a full ASCII report of each entry on SYS$OUTPUT.

With the exception of the input file specification the defaults for this case are the same as above. Any binary (untranslated) system event file may be specified as input.

/BEFORE

ANA/ERR/BEF=16-AUG-85-10:35 ERRLOG.OLD;5<cr>
ANA/ERR/BEF=--3--12:30 ERRLOG.OLD;5<cr>

Select only those entries dated earlier than the "date-time" specified.

The qualifier accepts absolute time (beginning August 16, 1985 at 10:30), delta time (beginning 2 days, 11 hours, and 30 minutes ago), or a combination of both. For further details on specifying times refer to Section 2.5 in the VAX/VMS DCL Dictionary.

/BINARY

ANA/ERR INCLUDE=(DISKS)/BIN=FS:DISK.ERRORS<cr>
Do not translate the selected entries. Instead write them in the directory and file specified. If no directory is specified use the users default directory. If no file type is specified, use .DAT as the file type.

You must supply a file name. If you omit the directory it will default to the directory you
are using. If you omit the file type it will default to: DAT.

The following qualifiers should not be used in conjunction with the /Binary qualifier:

/BRIEF       /OUTPUT       /SUMMARY
/FULL        /REGISTER_DUMP

/BRIEF
ANA/ERR/BRI ERRLOG.OLD;5<cr>
Do not generate a full report for each selected entry. Instead generate an abbreviated report containing key only information about each entry.

/ENTRY
ANA/ERR/ENT=(START:12,END:29)<cr>
Select only the Entry Numbers specified. If either the START or END argument is omitted default to START:1,END:EOF.

/EXCLUDE
ANA/ERR/EXC=(MTA0,DRA5) ERRLOG.OLD;5<cr>
Do not select any entries generated for the Device Class, Device Name, or Entry Type specified.

The acceptable Device and Entry keywords are listed under the /INCLUDE qualifier.

/FULL
ANA/ERR/INCLUDE=(DISKS)/FULL ERRLOG.OLD;5<cr>
Generate a full ASCII report for the entries specified.

This is the default report format and normally does not need to be specified as part of the ANALYZE/ERROR_LOG command string.

See Examples: 1 through 15

/NOFULL
ANA/ERR/STATISTICS/NOFULL ERRLOG.OLD;5<cr>
Do not generate a full ASCII report for the entries specified.

This Qualifier is normally used when you only want a special ASCII report such as a Summary or Statistical report. If you don't specify NOFULL, a full translation of the selected entries will precede the Summary or Statistical Report.

/INCLUDE
ANA/ERR/INC=(MACHINE_CHECKS,BUGCHECKS)<cr>
Select only those entries generated for the Device Class, Device Name, or Entry Type specified.

The acceptable Device and Entry keywords are listed below.

Device Class Keywords
THE VMS SYSTEM EVENT FILE

BUSES - All Bus related Entries
DISKS - All Disk Related Entries
REALTIME - All Realtime Related Entries
SYNC COMMUNICATIONS - All Synchronous Line Entries
TAPES - All Tape related Entries

Device Physical Name Constructs
DB - An entire group of devices
DB,DR,XF - A list of device groups
DBA1 - A specific device/unit number
DBA1,HSC1$DUAL,DYAO - A list of devices

Entry Types
ATTENTIONS - device attention entries
BUGCHECKS - bugcheck entries
CONTROL ENTRIES - Control Entries
CPU_ENTRIES - CPU Related Entries
DEVICE_ERRORS - Device Error Entries
MACHINE_CHECKS - Machine Check Entries
MEMORY - Memory Error Entries
TIMEOUTS - Device Timeout Entries
UNKNOWN ENTRIES - All Entries that had either an unknown entry type or an unknown device type/class.
UNSOLICITED_MSCP - Unsolicited MSCP Entries
VOLUME_CHANGES - Volume Mount and Dismount Entries

/LOG

ANA/ERR/LOG ERRLOG.OLD;5<cr>
Send a message to the SYS$OUTPUT stating the number of entries that were selected and rejected for each input file.

Refer to the /REJECT qualifier for an explanation of rejected entries. See Example: 16

/OUTPUT

ANA/ERR/OUT=ERROR_LOG.LST ERRLOG.OLD;5<cr>
Do not print the ASCII Report. Instead save the report in the file specified. If no file is specified write the report into xxxx.LST (where xxxx is the name of the input file).

/REGISTER_DUMP

ANA/ERR/INCLUDE=(CPU)/REG ERRLOG.OLD;5<cr>
Do not use the specified (Brief/Full) format for translating Memory, Device Error, and Device Timeout entries. Instead select only the register information from those entries and translate that information into hexadecimal longword (cryptic) format. Use the specified format for translating all other types of selected entries.

This qualifier requires that the INCLUDE qualifier be part of the command string. Also,
regardless of whether or not they were specified as by INCLUDE Qualifier, all Memory, Device Error, Device Timeout entries will be selected and translated in cryptic format.

See Example: 17

/REJECT
ANA/ERR/INCLUDE=(MTA0)/REJ=ERRORS.BIN ERRLOG.OLD;5<CR>
Put all rejected entries in the file specified. Do not translate the entries, write them in binary format. If no file is specified write the entries into xxxx.REJ (where xxxx is the name of the input file).

Rejected entries consist of all entries that were not specifically selected in the command string. That is, those entries that were outside the time window specified by either the /SINCE, /BEFORE arguemnts; those entries that were not with in the range specified by the /ENTRY(START: ,END: ) arguemnts; those entries that did not match the /INCLUDE arguemnts; and those entries that were specifically rejected by the /EXCLUDE arguemnts.

/SID_REGISTER
ANA/ERR/SID=4X0405F09E ERRLOG.OLD;5<CR>
Select only those entries that were reported by the CPU associated with the System ID specified.

/SINCE
ANA/ERR/SIN=16-AUG-85-10:35 ERRLOG.OLD;5<cr>
ANA/ERR/SIN=-3-12:30 ERRLOG.OLD;5<cr>
Select only those entries that occurred on or after the date and time specified.

You can specify an absolute time (begining August 16,1985 at 10:30), a delta time (begining 2 days, 11 hours, and 30 minutes ago), or a combination of absolute and delta times. For further details on specifying times refer to Section 2.5 in the VAX/VMS DCL Dictionary.

/STATISTICS
ANA/ERR/NOPULL/STAT ERRLOG.OLD;5<cr>
Generate and append a statistical report to the end of the ASCII report that states CPU Time used and the number of page faults, buffered I/O, and direct I/O, that occurred during the execution of the ANALYZE/ERROR_LOG command.

See Example: 18

/SUMMARY
ANA/ERR/NOPULL/SUM=(DEV, MEM) ERRLOG.OLD;5<cr>
Generate a summary report for each of the report types specified by the keyword and append the report(s) to the end of the ASCII report. If no keywords are supplied, generate a full set of summary reports.
The VMS System Event File

The following is a list of the Summary Keywords and the type of report they will generate.

<table>
<thead>
<tr>
<th>Keyword</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEVICE</td>
<td>Include the Device Rollup section in the report.</td>
</tr>
<tr>
<td>ENTRY</td>
<td>Include the Summary of EntriesLogged section in the report.</td>
</tr>
<tr>
<td>HISTOGRAM</td>
<td>Include the Processed Entries Hour of Day Histogram in the report.</td>
</tr>
<tr>
<td>MEMORY</td>
<td>Include the Summary of Memory Errors section in the report.</td>
</tr>
<tr>
<td>VOLUME</td>
<td>Include the Volume Label section in the report.</td>
</tr>
</tbody>
</table>

See Examples: 19 through 22
THE VMS SYSTEM EVENT FILE

EXAMPLES

The following examples represent sample reports produced by the Error Record Formatter (ERF). These reports have been included so that you will have some idea of the type of information that can be extracted from System Event files using either ANALYZE/ERROR_LOG

The following is a list of the examples and the corresponding Entry Types:

Example 1: Machine Check (Entry Type 002)
Example 2: Soft ECC Error (Entry Type 006)
Example 3: 11/790 SBIA Error (Entry Type 013)
Example 4: 11/780 Environmental Monitor (Entry Type 015)
Example 5: 11/790 Processor Halt (Entry Type 016)

Example 6: 11/790 Console Reboot (Entry Type 017)
Example 7: Cold Start (Entry Type 032)
Example 8: Crash Re-start (Entry Type 037)
Example 9: System Bugcheck (Entry Type 040)
Example 10: Device Timeout (Entry Type 096)

Example 11: Asynchronous Device Attention (Entry Type 098)
Example 12: Unknown Entry (Entry Type 273)
Example 13: ANALYZE/ERROR_LOG/LOG Report Format
Example 14: ANALYZE/ERROR_LOG/REGISTER DUMP Report Format
Example 15: ANALYZE/ERROR_LOG/STATISTICS Report Format

Example 16: ANALYZE/ERROR_LOG/SUMMARIZE=(DEVICE) Report Format
Example 17: ANALYZE/ERROR_LOG/SUMMARIZE=(VOLUME) Report Format
Example 18: ANALYZE/ERROR_LOG/SUMMARIZE=(ENTRY) Report Format
Example 19: ANALYZE/ERROR_LOG/SUMMARIZE=(HISTOGRAM) Report Format
Example 1: Machine Check (Entry Type 002)

VA/X VMS SYSTEM ERROR REPORT

COMPiled 6-SEP-1985 16:46
PAGE 1.

************************************************************************ ENTRY
ERROR SEQUENCE 43.

1. ************************************************************************
LOGGED ON SID 0405F270

MACHINE CHECK 2-JUL-1985 17:34:44.00
KA86 REV# 5. SERIAL# 624. MFG PLANT 15.

EHMSTS 41001803

VMS ERROR CODE = IBOX
MICRO TRAP VECTOR = 18 (X)
IBOX SP CORR
EHM ENTERED

EVMQSAV 0008073D

VIRTUAL ADDRESS FOR EBOX PORT REQUESTS

EBCS 00002000

IBOX ERR

EDPSR 00000000


C BUS ADDRESS = 1F (X)
C BUS DATA = 6E (X)
INTERRUPT PRIORITY REQUEST = 0.
I/O ADAPTER = 3.

IBESR 00806000

UOP SEL = IBOX REGISTER SELECT
UTPR <2:0> = FORK(IB PORT, IBOX ERR)
ENABLE ETRAP
IAMUX PARITY ERROR

EBXWD1 00000051

TOP OF "SP STACK"
CONTENT IS ONE OF THE LAST LONGWORDS WRITTEN TO MBOX

EBXWD2 00A00040

TOP OF "SP STACK" MINUS ONE CONTENT IS ONE OF THE LAST
LONGWORDS WRITTEN TO MBOX

VASAV 00011B04

VIRTUAL ADDRESS FOR OP FETCH PORT REQUEST ADDRESS
CALCULATION FOR OPERAND
PRE-FETCH AND RESULT DELIVERY

VIBASAV 0008074E

VIRTUAL ADDRESS OF NEXT IBUF PORT REQUEST TO FILL IBUFFER

ESASAV 0008073E

PC OF INSTRUCTION DURING EBOX EXECUTION AND RESULT STORAGE

ISASAV 00080742

PC OF INSTRUCTION WHICH VA CALCULATION UNIT IS DOING ADDRESS
CALCULATION OR OPERAND PRE-FETCH OR IS PASSING OPERAND DATA
<table>
<thead>
<tr>
<th>Variable</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPC</td>
<td>00080742</td>
</tr>
<tr>
<td>MSTAT1</td>
<td>84004000</td>
</tr>
<tr>
<td>MSTAT2</td>
<td>00000F00</td>
</tr>
<tr>
<td>MDECC</td>
<td>00060400</td>
</tr>
<tr>
<td>MERG</td>
<td>00000100</td>
</tr>
<tr>
<td>CSHCTL</td>
<td>00001003</td>
</tr>
<tr>
<td>MEAR</td>
<td>0000007C</td>
</tr>
<tr>
<td>MEDR</td>
<td>0000001F</td>
</tr>
<tr>
<td>FBXERR</td>
<td>FFFFFFFF</td>
</tr>
<tr>
<td>CSES</td>
<td>FFFFFFFF</td>
</tr>
<tr>
<td>ERROR PC</td>
<td>00080742</td>
</tr>
<tr>
<td>ERROR PSL</td>
<td>03C00028</td>
</tr>
<tr>
<td>IOA ES</td>
<td>00000000</td>
</tr>
</tbody>
</table>

**PC of Instruction in Decode Unit**

- Block Hit
- ABUS Adapter = 0
- Word Count = 0
- Cycle Type = Read Register
- Dest CP = EBOX

**Diagnostic Status from SBIA**

- RD COM/MSK <3:0> = F (X)
- RD DAT L/S <1:0> = 0 (X)
- FAMM DATA = ARRAY #0., SLOT #1.

(* Data Not Valid *)

**Memory Management Enable**

- Cache 0 Enable
- Cache 1 Enable

**Physical Address in PA Latch at Time of Error = 0000007C**

**Data Word Used During Error**

(* Data Not Valid *)

(* Data Not Valid *)

**N-Bit**

- Integer Overflow Trap Enable
- Interrupt Priority Level = 00
- Previous Mode = User
- Current Mode = User

(* Data Not Valid *)
Example 2: Soft ECC Error (Entry Type 006)

V AX / V MS SYSTEM ERROR REPORT 1-OCT-1985 08:57

PAGE 1.

****************************** ENTRY 1. ******************************
ERROR SEQUENCE 209.

CORRECTED MEMORY ERROR 10-SEP-1985 17:15:19.03
KA86 REV# 255. SERIAL# 4095. MFG PLANT 15.

HIGH CRD ERROR RATE - CRD LOGGING DISABLED

TOTAL CORRECTED DATA ERRORS LOGGED FOR THIS ENTRY 9.

CORRECTED ERROR 1.

MDECC 00261400 SYNDROME = CORRECTED DATA BIT #1.
DATA SINGLE BIT ERROR

MEAR 012AFC00 PHYSICAL ADDRESS IN PA LATCH
AT TIME OF ERROR = 012AFC00

MSTAT1 64004002 ANY REFILL
BLOCK HIT
ABUS ADAPTER = 0.
WORD COUNT = 0.
CYCLE TYPE = CP REFILL
DEST CP = OP FETCH

MSTAT2 00044F00 DIAGNOSTIC STATUS FROM SBIA
RD COM/MSK <3:0> = F (X)
RD DAT L/S <1:0> = 0 (X)
ABUS BAD DATA CODE
FAMM DATA = ARRAY #4, SLOT #5.

CORRECTED ERROR 2.

MDECC 00261400 SYNDROME = CORRECTED DATA BIT #1.
DATA SINGLE BIT ERROR

MEAR 012AFC00 PHYSICAL ADDRESS IN PA LATCH
AT TIME OF ERROR = 012AFC00

MSTAT1 64006006 ANY REFILL
CO TAG MISS
BLOCK HIT
ABUS ADAPTER = 0.
WORD COUNT = 0.
CYCLE TYPE = CP REFILL
DEST CP = OP FETCH
THE VMS SYSTEM EVENT FILE

MSTAT2 00040F00
DIAGNOSTIC STATUS FROM SBIA
  RD COM/MSK <3:0> = F (X)
  RD DAT L/S <1:0> = 0 (X)
  FAMM DATA = ARRAY #4., SLOT #5.

CORRECTED ERROR 3.

MDECC 00261400
SYNDROME = CORRECTED DATA BIT #1.
DATA SINGLE BIT ERROR

MEAR 01297400
PHYSICAL ADDRESS IN PA LATCH
AT TIME OF ERROR = 01297400

MSTAT1 64006002
ANY REFILL
C0 TAG MISS
BLOCK HIT
ABUS ADAPTER = 0.
WORD COUNT = 0.
CYCLE TYPE = CP REFILL
DEST CP = OP FETCH

MSTAT2 00044F00
DIAGNOSTIC STATUS FROM SBIA
  RD COM/MSK <3:0> = F (X)
  RD DAT L/S <1:0> = 0 (X)
  ABUS BAD DATA CODE
  FAMM DATA = ARRAY #4., SLOT #5.

CORRECTED ERROR 4.

MDECC 00261400
SYNDROME = CORRECTED DATA BIT #1.
DATA SINGLE BIT ERROR

MEAR 01297400
PHYSICAL ADDRESS IN PA LATCH
AT TIME OF ERROR = 01297400

MSTAT1 64006002
ANY REFILL
C0 TAG MISS
BLOCK HIT
ABUS ADAPTER = 0.
WORD COUNT = 0.
CYCLE TYPE = CP REFILL
DEST CP = OP FETCH

MSTAT2 00040F00
DIAGNOSTIC STATUS FROM SBIA
  RD COM/MSK <3:0> = F (X)
  RD DAT L/S <1:0> = 0 (X)
  FAMM DATA = ARRAY #4., SLOT #5.
<table>
<thead>
<tr>
<th>CORRECTED ERROR 5.</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MDECC</strong></td>
<td>00261400</td>
<td>SYNDROME = CORRECTED DATA BIT #1. DATA SINGLE BIT ERROR</td>
</tr>
<tr>
<td><strong>MEAR</strong></td>
<td>012A2C00</td>
<td>PHYSICAL ADDRESS IN PA LATCH AT TIME OF ERROR = 012A2C00</td>
</tr>
<tr>
<td><strong>MSTAT1</strong></td>
<td>64004002</td>
<td>ANY REFILL BLOCK HIT ABUS ADAPTER = 0. WORD COUNT = 0. CYCLE TYPE = CP REFILL DEST CP = OP FETCH</td>
</tr>
</tbody>
</table>
| **MSTAT2** | 00044F00 | DIAGNOSTIC STATUS FROM SBIA 
- RD COM/MSK <3:0> = F (X) 
- RD DAT L/S <1:0> = 0 (X) 
- ABUS BAD DATA CODE PAMM DATA = ARRAY #4.,SLOT #5. |

<table>
<thead>
<tr>
<th>CORRECTED ERROR 6.</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MDECC</strong></td>
<td>00261400</td>
<td>SYNDROME = CORRECTED DATA BIT #1. DATA SINGLE BIT ERROR</td>
</tr>
<tr>
<td><strong>MEAR</strong></td>
<td>012A2C00</td>
<td>PHYSICAL ADDRESS IN PA LATCH AT TIME OF ERROR = 012A2C00</td>
</tr>
<tr>
<td><strong>MSTAT1</strong></td>
<td>64006006</td>
<td>ANY REFILL C0 TAG MISS BLOCK HIT ABUS ADAPTER = 0. WORD COUNT = 0. CYCLE TYPE = CP REFILL DEST CP = OP FETCH</td>
</tr>
</tbody>
</table>
| **MSTAT2** | 00040F00 | DIAGNOSTIC STATUS FROM SBIA 
- RD COM/MSK <3:0> = F (X) 
- RD DAT L/S <1:0> = 0 (X) 
PAMM DATA = ARRAY #4.,SLOT #5. |

<table>
<thead>
<tr>
<th>CORRECTED ERROR 7.</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MDECC</strong></td>
<td>00261400</td>
<td>SYNDROME = CORRECTED DATA BIT #1. DATA SINGLE BIT ERROR</td>
</tr>
</tbody>
</table>
THE VMS SYSTEM EVENT FILE

MEAR 01245C00

PHYSICAL ADDRESS IN PA LATCH
AT TIME OF ERROR = 01245C00

MSTAT1 64006006

ANY REFILL
C0 TAG MISS
BLOCK HIT
ABUS ADAPTER = 0.
WORD COUNT = 0.
CYCLE TYPE = CP REFILL
DEST CP = OP FETCH

MSTAT2 00044F00

DIAGNOSTIC STATUS FROM SBIA
- RD COM/MSK <3:0> = F (X)
- RD DAT L/S <1:0> = 0 (X)
- ABUS BAD DATA CODE
FAMM DATA = ARRAY #4., SLOT #5.

CORRECTED ERROR 8.

MDECC 00261400

SYNDROME = CORRECTED DATA BIT #1.
DATA SINGLE BIT ERROR

MEAR 01245C00

PHYSICAL ADDRESS IN PA LATCH
AT TIME OF ERROR = 01245C00

MSTAT1 64006006

ANY REFILL
C0 TAG MISS
BLOCK HIT
ABUS ADAPTER = 0.
WORD COUNT = 0.
CYCLE TYPE = CP REFILL
DEST CP = OP FETCH

MSTAT2 00040F00

DIAGNOSTIC STATUS FROM SBIA
- RD COM/MSK <3:0> = F (X)
- RD DAT L/S <1:0> = 0 (X)
FAMM DATA = ARRAY #4., SLOT #5.

CORRECTED ERROR 9.

MDECC 00261400

SYNDROME = CORRECTED DATA BIT #1.
DATA SINGLE BIT ERROR

MEAR 01221400

PHYSICAL ADDRESS IN PA LATCH
AT TIME OF ERROR = 01221400
MSTAT1  64006006

ANY REFILL
C0 TAG MISS
BLOCK HIT
ABUS ADAPTER = 0.
WORD COUNT = 0.
CYCLE TYPE = CP REFILL
DEST CP = OP FETCH

MSTAT2  00044F00

DIAGNOSTIC STATUS FROM SBIA
- RD COM/MSK \langle3:0\rangle = F (X)
- RD DAT L/S \langle1:0\rangle = 0 (X)
- ABUS BAD DATA CODE
PAMM DATA = ARRAY #4., SLOT #5.
Example 3: 11/790 SBIA Error (Entry Type 013)

VA X / VMS SYSTEM ERROR REPORT

ERROR SEQUENCE 66.

SBIA ERROR 2-JUL-1985 19:17:12.92
KA86 REV# 5. SERIAL# 624. MFG PLANT 15.

ERROR PC 80008B1F
ERROR PSL 00000000

IOA ADDRESS 80029200
DMAI CMD/ADDRS 403C747E
DMAI ID 0000000E
DMAA CMD/ADDRS 18001800
DMAA ID 00000010
DMAB CMD/ADDRS 103C747F
DMAB ID 0000000E
DMAC CMD/ADDRS B03E09FC
DMAC ID 0000000E
IOA DC 00000000
IOA ES 1C000000
IOA CS EE000000

IOA CF 01000010

SBIA FS 040F0000

SBIA SC 00000000

SBIA MT 00000000
SBIA ER 00000000
SBIA TA 0802000E

INTERRUPT PRIORITY LEVEL = 00.
PREVIOUS MODE = KERNEL
CURRENT MODE = KERNEL

(* DATA NOT VALID *)

CPU TR SELECT = 2.
ENABLE SBI CYCLES IN
ENABLE SBI CYCLES OUT
MASTER INTERRUPT ENABLE

SOFTWARE REQUIRED SBI REV = 0.
SBI
16M OF MEMORY ADDRESSABLE (ABUS)

FAULT SILO LOCK
SBI FAULT
FAULT INTERRUPT ENABLE
FAULT LATCH
TRANSMITTER DURING FAULT

COUNT FIELD = 0.
COMPARE TAG = 0.
COMPARE CMD/MSK = 0.

(* DATA NOT VALID *)
SBI SILO LOCKED, DETAILED SUMMARY

00000000
1C000000

VALID READ DATA
ID = 0.

00000002
00000000

TR 1. ACTIVE

00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000
00000000

ADAPTER TR# 3.
"DW" CSR 00000028

ADAPTER IS UBA 0.

ADAPTER TR# 14.
CNFGR 20180038

ADAPTER IS "CI"
READ DATA TIMEOUT
COMMAND TRANSMIT TIMEOUT
UNEXPECTED READ DATA FAULT
Example 4: 11/780 Environmental Monitor (Entry Type 015)

V A X / V M S SYSTEM ERROR REPORT COMPILED 9-SEP-1985 08:

PAGE 1.

************************************************************************ ENTRY
ERROR SEQUENCE 9413.

1. ************************************************************************
LOGGED ON SID 0405F09E

EMM EXCEPTION 9-JUL-1985 14:37:41.01
KA86 REV# 5. SERIAL# 158. MFG PLANT 15.

STATUS CHANGE IN T1 TEMPERATURE, THE TEMPERATURE IS NOW IN YELLOW ZONE

************************************************************************ ENTRY
ERROR SEQUENCE 9414.

2. ************************************************************************
LOGGED ON SID 0405F09E

EMM EXCEPTION 9-JUL-1985 14:37:44.43
KA86 REV# 5. SERIAL# 158. MFG PLANT 15.

STATUS CHANGE IN T1 TEMPERATURE, THE TEMPERATURE IS NOW NORMAL
Example 5: 11/790 Processor Halt (Entry Type 016)

V A X / V M S

SYSTEM ERROR REPORT

COMPILED 9-SEP-1985 08:52

PAGE 1

******************************************************************************** ENTRY 1. ********************************************************************************

LOGGED ON SID 0405F270

KAF SNAPSHOT 12-JUL-1985 09:48:27.50
KA86 REV# 5. SERIAL# 624. MFG PLANT 15.


******************************************************************************** ENTRY 2. ********************************************************************************

LOGGED ON SID 0405F270

KAF SNAPSHOT 12-JUL-1985 09:48:38.06
KA86 REV# 5. SERIAL# 624. MFG PLANT 15.

SYS$SYSROOT:[SYSERR]ERRSNAP.LOG;26 12-JUL-1985 09:48:33.68

******************************************************************************** ENTRY 3. ********************************************************************************

LOGGED ON SID 0405F270

KAF SNAPSHOT 12-JUL-1985 15:47:01.59
KA86 REV# 5. SERIAL# 624. MFG PLANT 15.

SYS$SYSROOT:[SYSERR]ERRSNAP.LOG;27 12-JUL-1985 15:46:55.83
Example 6: 11/790 Console Reboot (Entry Type 017)

VA X / V M S SYSTEM ERROR REPORT COMPILED 6-SEP-1985 12:35
PAGE 1.

*************************** ENTRY 1. ***************************
ERROR SEQUENCE 82.
CONSOLE REBOOT SUCCESS 4-FEB-1985 16:30:46.62
KA86 REV# 255. SERIAL# 4095. MFG PLANT 15.

Example 7: Cold Start (Entry Type 032)

VA X / V M S SYSTEM ERROR REPORT COMPILED 9-SEP-1985 09:00
PAGE 1.

*************************** ENTRY 1. ***************************
ERROR SEQUENCE 0.
SYSTEM START-UP 10-JUL-1985 15:56:51.62
KA86 REV# 5. SERIAL# 591. MFG PLANT 15.
TIME OF DAY CLOCK 72306E69
Example 8: Crash Re-start (Entry Type 037)

V AX / V MS SYSTEM ERROR REPORT COMPILED 9-SEP-1985 09:08 PAGE 1.

************************************** ENTRY 1. **************************************
ERROR SEQUENCE 6906.
FATAL BUGCHECK 24-JUN-1985 21:15:03.51
KA86 REV# 5. SERIAL# 158. MFG PLANT 15.

OPERATOR, Operator requested system shutdown

************************************** ENTRY 2. **************************************
ERROR SEQUENCE 8075.
FATAL BUGCHECK 1-JUL-1985 12:34:20.33
KA86 REV# 5. SERIAL# 158. MFG PLANT 15.

MACHINECK, Machine check while in kernel mode

PROCESS NAME .A473373:.....
PROCESS ID 00070122
ERROR PC 80245D62
ERROR PSL 045F0008

N-BIT
INTERRUPT PRIORITY LEVEL = 31.
PREVIOUS MODE = EXECUTIVE
CURRENT MODE = KERNEL
INTERRUPT STACK

STACK POINTERS
KSP 7FFE7E00 ESP 7FFE9D80 SSP 7FFED04E USP 7FF6D91C ISP 806B0F50

GENERAL REGISTERS
R0 00000000 R1 00001F73 R2 000000AA R3 7FFBA207 R4 7FFBA207
R5 7FFBA21C R6 7FFBA668 R7 7FFB9D40 R8 7FFBA223 R9 00000006
R10 7FFBA205 R11 7FFBA2CD AP 00000003 FP 7FFE9DE4 SP 806B0F94

SYSTEM REGISTERS
P0BR 80A5C200 P0 PTE BASE (VIRT ADDR)
P0LR 000002DB TOTAL P0 PAGES
P1BR 8027F200 P1 PTE BASE (VIRT ADDR)
P1LR 001FFB5B TOTAL NON-EXISTENT P1 PAGES
<table>
<thead>
<tr>
<th>Variable</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBR</td>
<td>00FC3400</td>
</tr>
<tr>
<td>SLR</td>
<td>0000F300</td>
</tr>
<tr>
<td>PCBB</td>
<td>00423878</td>
</tr>
<tr>
<td>SCBB</td>
<td>00FBP600</td>
</tr>
<tr>
<td>ASTLVL</td>
<td>00000004</td>
</tr>
<tr>
<td>SISR</td>
<td>00000000</td>
</tr>
<tr>
<td>ICCS</td>
<td>800000C1</td>
</tr>
<tr>
<td>ICR</td>
<td>FFFFD62</td>
</tr>
<tr>
<td>TODR</td>
<td>6D7B5185</td>
</tr>
</tbody>
</table>

- **System PTE Base (PHY Addr)**
- **Total Pages 'System' Virt Mem**
- **PCB Base (PHY Addr)**
- **SCB Base (PHY Addr)**
- **No AST'S Pending**
- **Interrupt Request Active = 0**
- **Run**
- **Interrupt Enable**
- **Interrupt Error**
- **Interval Count Register**
Example 9: System Bugcheck (Entry Type 040)

VA X / V M S             SYSTEM ERROR REPORT             COMPILED 9-SEP-1985 09:11

ERROR SEQUENCE 0.

NON-FATAL BUGCHECK 4-JAN-1978 09:54:51.52
KA86 REV# 5. SERIAL# 158. MFG PLANT 15.

UNIXINTEXC, Unexpected interrupt or exception

PROCESS NAME .NULL...........
PROCESS ID 00010000
ERROR PC 80004680
ERROR PSL 04170000

INTERRUPT PRIORITY LEVEL = 23.
PREVIOUS MODE = KERNEL
CURRENT MODE = KERNEL
INTERRUPT STACK

STACK POINTERS

KSP 00000100 ESP 00000100 SSP 00000100 USP 00000100 ISP 806B0FAC

GENERAL REGISTERS

R0 00006E2A R1 00006E29 R2 00000000 R3 801BEE1D R4 00000149
R5 801BEE11 R6 801BEDD8 R7 805A86C0 R8 805A8A80 R9 00000000
R10 00000000 R11 800036B0 AP FFFFFFFF FP A0000000 SP 806B0FF0
Example 10: Device Timeout (Entry Type 096)

VA X / VMS SYSTEM ERROR REPORT

****** ENTRY

"UNKNOWN DEVICE" ENTRY 25-JAN-1985 20:06:38.09
KA86 REV# 255. SERIAL# 4095. MFG PLANT 15.

ERROR LOG RECORD

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERF$L_SID</td>
<td>04FFFFFFF</td>
</tr>
<tr>
<td>ERL$W_ENTRY</td>
<td>0060</td>
</tr>
<tr>
<td>EXE$GQ_SYSTIME</td>
<td>93C156A0</td>
</tr>
<tr>
<td></td>
<td>008D7A56</td>
</tr>
<tr>
<td>ERL$GL_SEQUENCE</td>
<td>014E</td>
</tr>
<tr>
<td>UCB$B_ERTCNT</td>
<td>00</td>
</tr>
<tr>
<td>UCB$B_ERTMAX</td>
<td>00</td>
</tr>
<tr>
<td>IRPSQ_IOSB</td>
<td>00000022C</td>
</tr>
<tr>
<td>UCB$W_STS</td>
<td>000000000</td>
</tr>
<tr>
<td>UCB$B_DEVCLASS</td>
<td>20</td>
</tr>
<tr>
<td>UCB$B_DEVTYPE</td>
<td>00</td>
</tr>
<tr>
<td>IRPSL_PID</td>
<td>000100P7</td>
</tr>
<tr>
<td>IRPSW_BOFF</td>
<td>0000</td>
</tr>
<tr>
<td>IRPSW_BCNT</td>
<td>0000</td>
</tr>
<tr>
<td>UCB$W_MEDIA</td>
<td>800029C0</td>
</tr>
<tr>
<td>UCB$W_UNIT</td>
<td>0000</td>
</tr>
<tr>
<td>UCB$W_ERRCNT</td>
<td>0001</td>
</tr>
<tr>
<td>UCB$L_OPCNT</td>
<td>00001B22</td>
</tr>
<tr>
<td>ORB$L_OWNER</td>
<td>000000000</td>
</tr>
<tr>
<td>UCB$L_DEVCHAR</td>
<td>0C402000</td>
</tr>
<tr>
<td>UCB$B_SLAVE</td>
<td>00</td>
</tr>
<tr>
<td>IRPSW_FUNC</td>
<td>0020</td>
</tr>
</tbody>
</table>

SYSTEM ID REGISTER
ERROR ENTRY TYPE
64 BIT TIME WHEN ERROR LOGGED
UNIQUE ERROR SEQUENCE = 334.
REMAINING RETRIES = 0.
MAXIMUM RETRIES = 0.
FINAL IOSB
DEVICE STATUS
DEVICE CLASS = 32.
DEVICE TYPE = 0.
REQUESTING PROCESS ID
TRANSFER BYTE OFFSET = 0.
TRANSFER BYTE COUNT = 0.
DEVICE DEPENDANT PHYSICAL ADDRESS
PHYSICAL UNIT NUMBER = 0.
UNIT ERROR COUNT = 1.
UNIT OPERATION COUNT = 6946.
OWNER UIC = [000,000]
DEVICE CHARACTERISTICS
DEVICE SLAVE CONTROLLER = 0.
QIO FUNCTION CODE
<table>
<thead>
<tr>
<th>DDB$T_NAME</th>
<th>3031300A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24325035</td>
</tr>
<tr>
<td></td>
<td>00415358</td>
</tr>
<tr>
<td></td>
<td>00000000</td>
</tr>
</tbody>
</table>

/ .0105P2$XSA...../
Example 11: Asynchronous Device Attention (Entry Type 098)

**THE VMS SYSTEM EVENT FILE**

**SYSTEM ERROR REPORT**

**VAX/VMS**

**COMPILED 9-SEP-1985 09:52**

**PAGE 1.**

**ERROR SEQUENCE 37.**

LOGGED ON SID 0405F270

**DEVICE ATTENTION** 24-JUN-1985 09:10:59.99
KA86 REV# 5. SERIAL# 624. MFG PLANT 15.

**CI SUB-SYSTEM, _F$PAA0: - PORT ERROR BIT(S) SET**

PORT WILL BE RESTARTED, 50. OF 50. RETRIES REMAINING

<table>
<thead>
<tr>
<th>Register</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNFGR</td>
<td>00100038</td>
<td>ADAPTER IS &quot;CI&quot; COMMAND TRANSMIT TIMEOUT</td>
</tr>
<tr>
<td>PMCSR</td>
<td>0000004C</td>
<td>MAINTENANCE INTERRUPT ENABLE</td>
</tr>
<tr>
<td>PSR</td>
<td>00000001</td>
<td>MAINTENANCE INTERRUPT FLAG</td>
</tr>
<tr>
<td>PFAR</td>
<td>80F89DBC</td>
<td>PROGRAMMABLE STARTING ADDRESS</td>
</tr>
<tr>
<td>PESR</td>
<td>00000000</td>
<td>RESPONSE QUEUE AVAILABLE</td>
</tr>
<tr>
<td>PPR</td>
<td>03F80007</td>
<td></td>
</tr>
<tr>
<td>UCB$B_ERTCNT</td>
<td>32</td>
<td>50. RETRIES REMAINING</td>
</tr>
<tr>
<td>UCB$B_ERTMAX</td>
<td>32</td>
<td>50. RETRIES ALLOWABLE</td>
</tr>
<tr>
<td>UCB$L_CHAR</td>
<td>0C450000</td>
<td>SHARABLE Available Error Logging Capable of Input</td>
</tr>
<tr>
<td>UCB$W_STS</td>
<td>0810</td>
<td>ONLINE Software Valid</td>
</tr>
<tr>
<td>UCB$W_ERRCNT</td>
<td>0001</td>
<td>1. ERRORS THIS UNIT</td>
</tr>
</tbody>
</table>
Example 12: Unknown Entry (Entry Type 273)

VA X / V M S SYSTEM ERROR REPORT COMPIL 6-SEP-1985 13:44
PAGE 1.

************************ ENTRY
ERROR SEQUENCE .83.

"UNKNOWN ENTRY" 4-FEB-1985 16:32:11.75
KA86 REV# 255. SERIAL# 4095. MFG PLANT 15.

ERROR LOG RECORD

ERF$L_SID 04FFFFFFFF
ERL$W_ENTRY 0111
EXESGQ_SYSTIME 46F32860
ERL$GL SEQUENCE 008D8214
LONGWORD 1. 00000005A

SYSTEM ID REGISTER
ERROR ENTRY TYPE
64 BIT TIME WHEN ERROR LOGGED
UNIQUE ERROR SEQUENCE = 83.
/Z.../
Example 13: The following printout is the product of the /LOG qualifier. Refer to the /REJECT qualifier for an explanation of rejected entries.

&ERF-I-INPUT, SYS$SYSTEM:ERRLOG.SYS, 5 selected, 12 rejected

Example 14: The following printout is the product of the /REGISTER DUMP qualifier. The cryptic format (shown below) can be used to identify control and status bits common to multiple entries.

```
VAX/VMS SYSTEM ERROR REPORT COMPILED 11-SEP-1985 11:33
PAGE 1.

CSR       CR       SR       DCR       FMER       PUBAR
00000028  0000007C  00000001  08000028  00000000  0000F86D
00000028  0000007C  00000001  08000028  00000000  0000F86D
00000028  0000007C  00000001  08000028  00000000  0000F86D
00000028  0000007C  00000001  08000028  00000000  0000F86D
00000028  0000007C  00000001  08000028  00000000  0000F86D
```

Example 15: The following printout is the product of the /STATISTICS qualifier.

```
VAX/VMS SYSTEM ERROR REPORT COMPILED 11-SEP-1985 09:13
PAGE 1.

PROGRAM RUNTIME STATISTICS

<table>
<thead>
<tr>
<th>TIMES IN SECONDS</th>
<th>PAGE FAULTS</th>
<th>DIRECT I/O</th>
<th>BUFFERED I/O</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU ELAPSED 1.3</td>
<td>150</td>
<td>17</td>
<td>7</td>
</tr>
</tbody>
</table>
```

Example 16: The following printout is the product of the /SUMMARIZE qualifier. Specifically this is a sample of the Device Summary Report.

```
V A X / V M S

SYSTEM ERROR REPORT

COMPiled 13-SEP-1985 09:42

DEVICE ROLLUP LOGGED BY SID 0405F270

DEVICE | ERROR BITS SET | QIO TIMEOUT | ERRORS THIS SESSION | QIOS THIS SESSION
-------|----------------|-------------|---------------------|---------------------
       | [HARD] [SOFT] | [HARD] [SOFT] |                     |                     |
_HSC003$DU0A: | 0. 3. 0. 0. | 0. 0. | 0. 0. |
_HSC003$DU0A1: | 0. 7. 0. 0. | 0. 0. | 0. 0. |
_HSC003$DU0A2: | 0. 1. 0. 0. | 0. 0. | 0. 0. |
_HSC003$DU0A4: | 0. 4. 0. 0. | 0. 0. | 0. 0. |
_HSC003$DU0A5: | 0. 22. 0. 0. | 31. 23152. |
_HSC002$DU0A1: | 0. 8. 0. 0. | 0. 0. 10321. |
_HSC002$DU0A2: | 0. 2. 0. 0. | 0. 0. |
_HSC002$DU0A3: | 0. 1. 0. 0. | 0. 0. |
_HSC002$DU0A4: | 0. 1. 0. 0. | 0. 0. |
_HSC002$DU0A5: | 0. 2. 0. 0. | 1. 2563. |
_HSC002$DU0A8: | 0. 7. 0. 0. | 0. 0. |
_HSC002$DU0A9: | 0. 11. 0. 0. | 0. 0. |
_HSC002$DU0A10: | 0. 3. 0. 0. | 0. 0. |
_HSC002$DU0A11: | 0. 2. 0. 0. | 0. 0. |
_HSC002$DU0A12: | 0. 5. 0. 0. | 0. 0. |
_HSC002$DU0A13: | 0. 7. 0. 0. | 0. 0. |
_F$PA0A0: | 8. 6. 0. 0. | 1. 0. |
_F$LA0A0: | 4. 0. 0. 0. | 1. 0. |
```
Example 17: The following printout is the product of the /SUMMARIZE qualifier. Specifically this is a sample of the Volume Summary Report.

```
VA X / V M S       SYSTEM ERROR REPORT       COMPILED 13-SEP-1985 09:42

VOLUME LABEL(S) LOGGED BY SID 0405F270

<table>
<thead>
<tr>
<th>LABEL</th>
<th>QIO(S)</th>
<th>ERROR(S)</th>
<th>MOUNT(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>_CSA1:</td>
<td>273</td>
<td>0</td>
<td>19</td>
</tr>
<tr>
<td>LABEL -- Exchange</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>_CSA1:</td>
<td>28</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>LABEL -- SCRATCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>_DUA6:</td>
<td>17547</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>LABEL -- VAX console</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>_CSA1:</td>
<td>96</td>
<td>0</td>
<td>24</td>
</tr>
</tbody>
</table>
```
Example 19: The following printout is the product of the /SUMMARIZE qualifier. Specifically this is a sample of the Histogram Summary Report.

**THE VMS SYSTEM EVENT FILE**

**VA X / V M S**

**SYSTEM ERROR REPORT**

**COMPILED 13-SEP-1985 09:42**

**PAGE 4.**

**PROCESSED ENTRIES HOUR-OF-DAY HISTOGRAM LOGGED BY SID 0405F270**

<table>
<thead>
<tr>
<th>Time</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>00:00</td>
<td>9</td>
</tr>
<tr>
<td>01:00</td>
<td>34</td>
</tr>
<tr>
<td>02:00</td>
<td>23</td>
</tr>
<tr>
<td>03:00</td>
<td>51</td>
</tr>
<tr>
<td>04:00</td>
<td>46</td>
</tr>
<tr>
<td>05:00</td>
<td>4</td>
</tr>
<tr>
<td>06:00</td>
<td>10</td>
</tr>
<tr>
<td>07:00</td>
<td>32</td>
</tr>
<tr>
<td>08:00</td>
<td>34</td>
</tr>
<tr>
<td>09:00</td>
<td>123</td>
</tr>
<tr>
<td>10:00</td>
<td>36</td>
</tr>
<tr>
<td>11:00</td>
<td>28</td>
</tr>
<tr>
<td>12:00</td>
<td>55</td>
</tr>
<tr>
<td>13:00</td>
<td>54</td>
</tr>
<tr>
<td>14:00</td>
<td>65</td>
</tr>
<tr>
<td>15:00</td>
<td>63</td>
</tr>
<tr>
<td>16:00</td>
<td>71</td>
</tr>
<tr>
<td>17:00</td>
<td>60</td>
</tr>
<tr>
<td>18:00</td>
<td>41</td>
</tr>
<tr>
<td>19:00</td>
<td>110</td>
</tr>
<tr>
<td>20:00</td>
<td>98</td>
</tr>
<tr>
<td>21:00</td>
<td>23</td>
</tr>
<tr>
<td>22:00</td>
<td>67</td>
</tr>
<tr>
<td>23:00</td>
<td>6</td>
</tr>
</tbody>
</table>