

```

EEEEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFF
EEEEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFF
EEEEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFF
EEE RRR RRR FFF
EEE RRR RRR FFF
EEE RRR RRR FFF
EEE RRR RRR FFF
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EEE RRR RRR FFF
EEEEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFF
EEEEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFF
EEEEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFF
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EEEEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFF
EEEEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFF
EEEEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFF

```

[illegible]

```

RRRRRRRR      000000      LL      LL      UU      UU      PPPPPPPP
RRRRRRRR      000000      LL      LL      UU      UU      PPPPPPPP
RR      RR      00      00      LL      LL      UU      UU      PP      PP
RR      RR      00      00      LL      LL      UU      UU      PP      PP
RR      RR      00      00      LL      LL      UU      UU      PP      PP
RR      RR      00      00      LL      LL      UU      UU      PP      PP
RRRRRRRR      00      00      LL      LL      UU      UU      PPPPPPPP
RRRRRRRR      00      00      LL      LL      UU      UU      PPPPPPPP
RR      RR      00      00      LL      LL      UU      UU      PP
RR      RR      00      00      LL      LL      UU      UU      PP
RR      RR      00      00      LL      LL      UU      UU      PP
RR      RR      00      00      LL      LL      UU      UU      PP
RR      RR      00      00      LL      LL      UU      UU      PP
RR      RR      000000      LLLLLLLLLL      LLLLLLLLLL      UUUUUUUUUU      PP
RR      RR      000000      LLLLLLLLLL      LLLLLLLLLL      UUUUUUUUUU      PP

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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
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS

```


J 13
16-Sep-1984 00:14:43
5-Sep-1984 14:21:43

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[ERF.SRC]ROLLUP.FOR;1

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```
0001 C
0002 C Version: 'V04-000'
0003 C
0004 C*****
0005 C*
0006 C* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0023 C*
0024 C*
0025 C*****
0026 C
0027 C          AUTHOR  BRIAN PORTER          CREATION DATE  10-SEP-1980
0028 C
0029 C++
0030 C      Functional description:
0031 C
0032 C      This module displays the device error roll-up report.
0033 C
0034 C      Modified by:
0035 C
0036 C      V03-004 SAR0257      Sharon A. Reynolds      25-Apr-1984
0037 C      Widened the output field for the device names to
0038 C      accomodate the node name being logged now.
0039 C
0040 C      V03-003 SAR0094      Sharon A. Reynolds,      20-Jun-1983
0041 C      Changed the carriage control in the 'format' statements
0042 C      for use with ERF.
0043 C
0044 C      V03-002 SAR009      Sharon Reynolds,      7-Apr-1983
0045 C      Removed search_sid and entry_type as call parameters.
0046 C      Added include statement for the 'msghdr' common which
0047 C      defines the field definitions for the entry header
0048 C      and equivalenced search_sid and entry_type to the
0049 C      appropriate definitions.
0050 C
0051 C      v03-001 BP0004      Brian Porter,      05-APR-1982
0052 C      Added stuff for mscp.
0053 C**
0054 C--
0055 C
0056 C++
0057 C
```

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VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[ERF.SRC]ROLLUP.FOR;1

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```
0058      +-----+
0059      |      flink1      |
0060      +-----+
0061      |      blink1     |
0062      +-----+
0063      |    logging sid  |
0064      +-----+
0065      |   root name flink|
0066      +-----+
0067      |   root name blink|
0068      +-----+
0069      | name entry count |
0070      +-----+
0071
0072
0073      +-----+
0074      |      flink2     |
0075      +-----+
0076      |      blink2    |
0077      +-----+
0078
0079      |--      16 bytes for name      |--
0080      |--      string                  |--
0081      |--                               |--
0082      +-----+
0083      |   root unit flink|
0084      +-----+
0085      |   root unit blink|
0086      +-----+
0087      | unit entry count |
0088      +-----+
0089
0090
0091      +-----+
0092      |      flink3     |
0093      +-----+
0094      |      blink3    |
0095      +-----+
0096      | ucb unit number |
0097      +-----+
0098      | device hard error count |
0099      +-----+
0100      | device soft error count |
0101      +-----+
0102      | timeout hard error count |
0103      +-----+
0104      | timeout soft error count |
0105      +-----+
0106      | ucb unit operation count |
0107      +-----+
0108      | ucb unit error count  |
0109      +-----+
0110      | pack count           |
0111      +-----+
0112
0113
0114
```



```

0115 C
0116 C
0117 C
0118 C
0119 C
0120 C
0121 C
0122 C
0123 C
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0210 C
0211 C
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0214 C
0215 C
0216 C
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0219 C
0220 C
0221 C
0222 C
0223 C
0224 C
0225 C
0226 C
0227 C
0228 C
0229 C

```

```

current label
previous error

```

```

subroutine rollup (search_name_length,search_name_string,
1 search_unit,iosb,ucb$l_opcnt,ucb$w_errcnt)

Include 'SRC$:MSGHDR.FOR /NOLIST' ! EMB entry header definitions

byte lun
integer*4 buffer0(3)
integer*4 root_logging_sid_flink
integer*4 root_logging_sid_blink
integer*4 logging_sid_entry_count
Equivalence (emb$l_hd_sid,search_sid)
Equivalence (emb$w_hd_entry,entry_type)
equivalence (buffer0(1),root_logging_sid_flink)
equivalence (buffer0(2),root_logging_sid_blink)
equivalence (buffer0(3),logging_sid_entry_count)
integer*4 buffer1(6)
integer*4 flink1
integer*4 blink1
integer*4 logging_sid
integer*4 root_name_flink
integer*4 root_name_blink
integer*4 name_entry_count
equivalence (buffer1(1),flink1)
equivalence (buffer1(2),blink1)
equivalence (buffer1(3),logging_sid)
equivalence (buffer1(4),root_name_flink)

```

0230		
0231	equivalence	(buffer1(5),root_name_blink)
0232		
0233	equivalence	(buffer1(6),name_entry_count)
0234		
0235	integer*4	buffer2(9)
0236		
0237	integer*4	fblink2
0238		
0239	integer*4	blink2
0240		
0241	byte	name_string_array(0:15)
0242		
0243	byte	name_string_length
0244		
0245	character*15	name_string
0246		
0247	equivalence	(name_string_array(0),name_string_length)
0248		
0249	equivalence	(name_string_array(1),name_string)
0250		
0251	integer*4	root_unit_flink
0252		
0253	integer*4	root_unit_blink
0254		
0255	integer*4	unit_entry_count
0256		
0257	equivalence	(buffer2(1),fblink2)
0258		
0259	equivalence	(buffer2(2),blink2)
0260		
0261	equivalence	(buffer2(3),name_string_array)
0262		
0263	equivalence	(buffer2(7),root_unit_flink)
0264		
0265	equivalence	(buffer2(8),root_unit_blink)
0266		
0267	equivalence	(buffer2(9),unit_entry_count)
0268		
0269	integer*4	buffer3(13)
0270		
0271	integer*4	fblink3
0272		
0273	integer*4	blink3
0274		
0275	integer*4	ucb_unit_number
0276		
0277	integer*4	device_hard_error_count
0278		
0279	integer*4	device_soft_error_count
0280		
0281	integer*4	timeout_hard_error_count
0282		
0283	integer*4	timeout_soft_error_count
0284		
0285	integer*4	ucb_unit_operation_count
0286		

[illegible]

0287	integer*4	ucb_unit_error_count
0288		
0289	integer*4	pack_count
0290		
0291	byte	previous_label_at_error_array(12)
0292		
0293	character*12	previous_label_at_error
0294		
0295	equivalence	(previous_label_at_error_array,previous_label_at_error)
0296		
0297	equivalence	(buffer3(1),flink3)
0298		
0299	equivalence	(buffer3(2),blink3)
0300		
0301	equivalence	(buffer3(3),ucb_unit_number)
0302		
0303	equivalence	(buffer3(4),device_hard_error_count)
0304		
0305	equivalence	(buffer3(5),device_soft_error_count)
0306		
0307	equivalence	(buffer3(6),timeout_hard_error_count)
0308		
0309	equivalence	(buffer3(7),timeout_soft_error_count)
0310		
0311	equivalence	(buffer3(8),ucb_unit_operation_count)
0312		
0313	equivalence	(buffer3(9),ucb_unit_error_count)
0314		
0315	equivalence	(buffer3(10),pack_count)
0316		
0317	equivalence	(buffer3(11),previous_label_at_error_array)
0318		
0319	integer*4	logging_sid_entry_address
0320		
0321	integer*4	name_entry_address
0322		
0323	integer*4	unit_entry_address
0324		
0325	character*15	search_name
0326		
0327	character*12	current_label_at_error
0328		
0329	logical*1	lib\$extzv
0330		
0331	logical*1	lib\$get_vm
0332		
0333	integer*4	search_sid
0334		
0335	byte	search_name_length
0336		
0337	character*15	search_name_string
0338		
0339	integer*2	search_unit
0340		
0341	integer*2	entry_type
0342		
0343	integer*4	compress4

[illegible]

ROLLUP

C 14
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```

0401      endif
0402
0403      ucb_unit_operation_count = ucb$l_opcnt
0404
0405      ucb_unit_error_count = ucb$w_errcnt
0406    endif
0407
0408    if (iosb .ne. -1) then
0409
0410      if (
0411      1 entry_type .eq. 1
0412      1 .or.
0413      1 entry_type .eq. 98
0414      1 .or.
0415      1 entry_type .eq. 99
0416      1 .or.
0417      1 entry_type .eq. 100
0418      1 ) then
0419
0420        if (lib$extzv(0,1,iosb) .eq. 1) then
0421
0422          if (device_soft_error_count .eq. -1) then
0423
0424            device_soft_error_count = 0
0425          endif
0426
0427          device_soft_error_count = device_soft_error_count + 1
0428        else
0429
0430          if (device_hard_error_count .eq. -1) then
0431
0432            device_hard_error_count = 0
0433          endif
0434
0435          device_hard_error_count = device_hard_error_count + 1
0436        endif
0437
0438      else if (entry_type .eq. 96) then
0439
0440        if (lib$extzv(0,1,iosb) .eq. 1) then
0441
0442          if (timeout_soft_error_count .eq. -1) then
0443
0444            timeout_soft_error_count = 0
0445          endif
0446
0447          timeout_soft_error_count = timeout_soft_error_count + 1
0448        else
0449
0450          if (timeout_hard_error_count .eq. -1) then
0451
0452            timeout_hard_error_count = 0
0453          endif
0454
0455          timeout_hard_error_count = timeout_hard_error_count + 1
0456        endif
0457      endif

```

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```
0458      endif
0459
0460      call get_current_label(3,search_sid,search_name_length,
0461      1 search_name_string,search_unit,%ref(current_label_at_error),*20)
0462
0463      if (current_label_at_error .ne. previous_label_at_error) then
0464
0465      pack_count = pack_count + 1
0466
0467      previous_label_at_error = current_label_at_error
0468      endif
0469
0470 20      call movc3 (%val(44),ucb_unit_number,%val(unit_entry_address + 8))
0471
0472      return
0473      endif
0474
0475      insert_blink = blink3
0476
0477      if (ucb_unit_number .gt. search_unit) goto 35
0478
0479      unit_entry_address = flink3
0480
0481 30      continue
0482
0483      insert_blink = root_unit_blink
0484
0485 35      call movc5 (%val(0),,%val(0),%val(52),buffer3)
0486
0487      if (lib$get_vm(((52+7)/8)*8,unit_entry_address)) then
0488
0489      call insque (%val(unit_entry_address),%val(insert_blink))
0490
0491      ucb_unit_number = search_unit
0492
0493      device_hard_error_count = -1
0494
0495      device_soft_error_count = -1
0496
0497      timeout_hard_error_count = -1
0498
0499      timeout_soft_error_count = -1
0500
0501      ucb_unit_operation_count = -1
0502
0503      ucb_unit_error_count = -1
0504
0505      unit_entry_count = unit_entry_count + 1
0506
0507      call movl (unit_entry_count,%val(name_entry_address + 32))
0508
0509      goto 15
0510      endif
0511
0512      return
0513      endif
0514
```


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DISK\$VMSMASTER:[ERF.SRC]ROLLUP.FOR;1

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```
0629      call linchk (lun,2)
0630
0631      write(lun,66)
0632 66      format(' ',:)
0633
0634      write(lun,67) name_string,ucb_unit_number
0635 67      format(' ',a<name_string_length>,
0636              1 i<compress4 (ucb_unit_number)>,' ')
0637
0638      column = name_string_length + (compress4 (ucb_unit_number)) + 2
0639
0640      if (device_hard_error_count .EQ. -1) then
0641      Device_hard_error_count = 0
0642      Endif
0643
0644      if (device_soft_error_count .EQ. -1) then
0645      Device_soft_error_count = 0
0646      Endif
0647
0648      if (timeout_hard_error_count .EQ. -1) then
0649      Timeout_hard_error_count = 0
0650      Endif
0651
0652      if (timeout_soft_error_count .EQ. -1) then
0653      Timeout_soft_error_count = 0
0654      Endif
0655
0656      if (ucb_unit_error_count .EQ. -1) then
0657      Ucb_unit_error_count = 0
0658      Endif
0659
0660      if (ucb_unit_operation_count .EQ. -1) then
0661      Ucb_unit_operation_count = 0
0662      Endif
0663
0664      write(lun,69) device_hard_error_count,device_soft_error_count,
0665      1 timeout_hard_error_count,timeout_soft_error_count,
0666      2 ucb_unit_error_count,ucb_unit_operation_count
0667
0668 69      format(T21,I5,' ',T28,I5,' ',
0669              1 T36,I5,' ',T43,I5,' ',
0670              2 T53,I6,' ',T64,I7,' ')
0671
0672      device_count = device_count + 1
0673
0674      unit_entry_address = flink3
0675
0676 80      continue
0677
0678      name_entry_address = flink2
0679
0680 90      continue
0681
0682      logging_sid_entry_address = flink1
0683
0684 100     continue
0685
```

ROLLUP

H 14
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DISK\$VMSMASTER:[ERF.SRC]ROLLUP.FOR;1

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0686 return
0687
0688 end

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	1477	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	288	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	588	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 EMB	512	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	2865	

ENTRY POINTS

Address	Type	Name	Address	Type	Name
0-00000357		DISPLAY_ROLLUP	0-00000000		ROLLUP

VARIABLES

Address	Type	Name	Address	Type	Name
2-0000005C	I*4	BLINK1	2-00000038	I*4	BLINK2
2-00000004	I*4	BLINK3	2-000000A4	I*4	COLUMN
2-0000008B	CHAR	CURRENT_LABEL_AT_ERROR	2-000000A8	I*4	DEVICE_COUNT
2-0000000C	I*4	DEVICE_HARD_ERROR_COUNT	2-00000010	I*4	DEVICE_SOFT_ERROR_COUNT
3-00000000	I*4	EMBSL_RD_SID	3-00000004	I*2	EMBSW_RD_ENTRY
3-0000000E	I*2	EMBSW_HD_ERRSEQ	3-00000004	I*2	ENTRY_TYPE
2-00000058	I*4	FLINK1	2-00000034	I*4	FLINK2
2-00000000	I*4	FLINK3	2-000000B0	I*4	I
2-000000AC	I*4	INSERT_BLINK	AP-00000010a	I*4	IOSB
2-000000B4	I*4	J	2-000000B8	I*4	K
2-00000060	I*4	LOGGING_SID	2-00000098	I*4	LOGGING_SID_ENTRY_ADDRESS
2-00000078	I*4	LOGGING_SID_ENTRY_COUNT	AP-00000004a	L*1	LUN
2-0000009C	I*4	NAME_ENTRY_ADDRESS	2-0000006C	I*4	NAME_ENTRY_COUNT
2-0000003D	CHAR	NAME_STRING	2-0000003C	L*1	NAME_STRING_LENGTH
2-00000024	I*4	PACK_COUNT	2-00000028	CHAR	PREVIOUS_LABEL_AT_ERROR
2-00000074	I*4	ROOT_LOGGING_SID_BLINK	2-00000070	I*4	ROOT_LOGGING_SID_FLINK
2-00000068	I*4	ROOT_NAME_BLINK	2-00000064	I*4	ROOT_NAME_FLINK
2-00000050	I*4	ROOT_UNIT_BLINK	2-0000004C	I*4	ROOT_UNIT_FLINK
2-0000007C	CHAR	SEARCH_NAME	AP-00000004a	L*1	SEARCH_NAME_LENGTH
AP-00000008a	CHAR	SEARCH_NAME_STRING	3-00000000	I*4	SEARCH_SID
AP-0000000Ca	I*2	SEARCH_UNIT	2-00000014	I*4	TIMEOUT_HARD_ERROR_COUNT
2-00000018	I*4	TIMEOUT_SOFT_ERROR_COUNT	AP-00000014a	I*4	UCBSL OPCNT
AP-00000018a	I*2	UCBSW_ERRCNT	2-00000020	I*4	UCB_UNIT_ERROR_COUNT
2-00000008	I*4	UCB_UNIT_NUMBER	2-0000001C	I*4	UCB_UNIT_OPERATION_COUNT
2-000000A0	I*4	UNIT_ENTRY_ADDRESS	2-00000054	I*4	UNIT_ENTRY_COUNT

ARRAYS

Address	Type	Name	Bytes	Dimensions
2-00000070	I*4	BUFFER0	12	(3)
2-00000058	I*4	BUFFER1	24	(6)
2-00000034	I*4	BUFFER2	36	(9)
2-00000000	I*4	BUFFER3	52	(13)
3-00000000	L*1	EMB	512	(0:511)
3-00000006	I*4	EMBSQ HD TIME	8	(2)
2-0000003C	L*1	NAME_STRING_ARRAY	16	(0:15)
2-00000028	L*1	PREVIOUS_LABEL_AT_ERROR_ARRAY	12	(12)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-00000048	5	0-0000007C	10	0-000000AE	15	0-000001CB	20	**	30	0-00000204	35
**	40	**	50	1-00000020	55	1-00000049	60	**	65	1-000000DA	66
1-000000DF	67	1-000000F5	69	**	80	**	90	**	100		

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
I*4	COMPRESS4		FRCTOF		GET_CURRENT_LABEL
	INSQUE	L*1	LIB\$EXTZV	L*1	LIB\$GET_VM
	LINCHK		MOVCS		MOVCS
	MOVL				

COMMAND QUALIFIERS

FORTRAN /LIS=LISS:ROLLUP/OBJ=OBJ\$:ROLLUP MSRC\$:ROLLUP

/CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)
/DEBUG=(NOSYMBOLS,TRACEBACK)
/STANDARD=(NOSYNTAX,NOSOURCE FORM)
/SHOW=(NOPREPROCESSOR,NOINCLUDE,MAP)
/F77 /NOG_FLOATING /I4 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19

COMPILATION STATISTICS

Run Time: 5.92 seconds
Elapsed Time: 14.57 seconds
Page Faults: 197
Dynamic Memory: 218 pages

0153 AH-BT13A-SE
VAX/VMS V4.0

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