


```

0401 100 continue
0402
0403 if (lib$get_vm(((2124+7)/8)*8,summary_list_entry_address)) then
0404
0405 call movc5 (%val(0),,%val(0),%val(2124),buffer2)
0406
0407 logging_sid = emb$l_hd_sid
0408
0409 earliest_entry_time(1) = 'fffffff'x
0410
0411 earliest_entry_time(2) = '7fffffff'x
0412
0413 latest_entry_time(1) = '0'x
0414
0415 latest_entry_time(2) = '0'x
0416
0417 call entry_summary_descriptor_load (logging_sid,
0418 1 entry_type_buffer(entry_title_descriptor_length,1))
0419
0420 call insque (%val(summary_list_entry_address),%val(root_summary_blink))
0421
0422 summary_list_entry_count = summary_list_entry_count + 1
0423
0424 goto 10
0425 endif
0426
0427 return
0428
0429
0430
0431 entry entry_summary_output (lun)
0432
0433
0434
0435 c++
0436 c functional description
0437 c
0438 c This entry point is used when the processing of the error log
0439 c file is finished and the entry summaries are to be output.
0440 c--
0441
0442
0443
0444
0445 summary_list_entry_address = root_summary_flink
0446
0447 do 200,i = 1,summary_list_entry_count
0448
0449 call movc3 (%val(2124),%val(summary_list_entry_address),flink)
0450
0451 call frctof (lun)
0452
0453 call linchk (lun,3)
0454
0455 write(lun,110) logging_sid
0456 110 format(/' ', 'SUMMARY OF ALL ENTRIES LOGGED BY SID ',z8.8,/)
0457

```

ENT

PRO

0

1

2

ENT

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VAR

2

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2

ARR

AP

LAB

```

0458      do 190,j = 1,128
0459
0460      if (entry_type_buffer(entry_title_descriptor_address,j) .ne. 0) then
0461
0462      if (entry_type_buffer(complete_entry,j) .ne. 0
0463      1 .or.
0464      2 entry_type_buffer(incomplete_entry,j) .ne. 0) then
0465
0466      call entry_summary_write (lun,
0467      1 entry_type_buffer(entry_title_descriptor_length,j),
0468      2 entry_type_buffer(complete_entry,j),
0469      3 entry_type_buffer(incomplete_entry,j))
0470      endif
0471      endif
0472
0473 190    continue
0474
0475      call linchk (lun,3)
0476
0477      if (earliest_entry_time(1) .ne. 'fffffff'x
0478      1 .and.
0479      1 earliest_entry_time(2) .ne. '7fffffff'x
0480      1 .and.
0481      1 latest_entry_time(1) .ne. '0'x
0482      1 .and.
0483      1 latest_entry_time(2) .ne. '0'x) then
0484
0485      call sys$asctim(,time1,earliest_entry_time,%val(0))
0486
0487      call sys$asctim(,time2,latest_entry_time,%val(0))
0488
0489      write(lun,120) time1,time2
0490 120    format(/' ',t8,'DATE OF EARLIEST ENTRY',t40,a,/,
0491      1 t8,'DATE OF LATEST ENTRY',t40,a)
0492      endif
0493
0494      summary_list_entry_address = flink
0495
0496 200    continue
0497
0498      return
0499
0500
0501
0502
0503      entry_processed_entries_histo_output (lun)
0504
0505
0506 c++
0507 c      functional description
0508 c
0509 c      This entry point is used when the processing of the error log
0510 c      file is finished and the Histogram summary is to be output.
0511 c--
0512
0513
0514      summary_list_entry_address = root_summary_flink

```



```

0572      call movc3 (%val(12),%val(summary_list_entry_address),flink)
0573
0574      if (emb$l_hd_sid .eq. logging_sid) then
0575
0576      call movc3 (%val(48),%val(summary_list_entry_address + 2076),
0577      1 processed_entry_histogram)
0578
0579      if (sys$numtim(time_buffer,emb$q_hd_time)) then
0580
0581      processed_entry_histogram(time_buffer(4)) =
0582      1 processed_entry_histogram(time_buffer(4)) + 1
0583
0584      call movc3 (%val(48),processed_entry_histogram,
0585      1 %val(summary_list_entry_address + 2076))
0586      endif
0587
0588      return
0589      endif
0590
0591      summary_list_entry_address = flink
0592
0593      300      continue
0594
0595      return
0596
0597      end
    
```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	1149	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	223	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	2552	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 EMB	512	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	4436	

ENTRY POINTS

Address	Type	Name	Address	Type	Name
0-000001A9		ENTRY_SUMMARY_OUTPUT	0-00000000		ENTRY_SUMMARY_UPDATE
0-000002E5		PROCESSED_ENTRIES_HISTO_OUTPUT	0-000003F8		PROCESSED_ENTRIES_HISTO_UPDATE

VARIABLES

Address	Type	Name	Address	Type	Name
2-00000004	I*4	BLINK	AP-0000000C@	L*1	CLASS
AP-00000004@	L*1	CPU	3-00000000	I*4	EMB\$L_HD_SID
3-00000004	I*2	EMB\$W_HD_ENTRY	3-0000000E	I*2	EMB\$W_HD_ERRSEQ

ENT
PRC
0
1
2
ENT
0
VAR
AP
AP
2
LAB
1
FUN
T
COM
F
/
/
/
/
/

AP-0000008a	L*1	ENTRY	2-00000000	I*4	FLINK
2-0000089C	I*4	I	2-000008A0	I*4	J
2-000008A4	I*4	K	2-000008AB	I*4	L
2-00000008	I*4	LOGGING_SID	AP-00000004a	L*1	LUN
2-00000892	L*1	POSSIBLE_INVALID_TIME	2-00000850	I*4	ROOT_SUMMARY_BLINK
2-0000084C	I*4	ROOT_SUMMARY_FLINK	2-00000898	I*4	SUMMARY_LIST_ENTRY_ADDRESS
2-00000894	I*4	SUMMARY_LIST_ENTRY_COUNT	2-00000862	CHAR	TIME1
2-0000087A	CHAR	TIME2	AP-00000010a	L*1	TYPE

ARRAYS

Address	Type	Name	Bytes	Dimensions
2-0000084C	I*4	BUFFER1	8	(2)
2-00000000	I*4	BUFFER2	2124	(531)
2-0000000C	I*4	EARLIEST_ENTRY_TIME	8	(2)
3-00000000	L*1	EMB	512	(0:511)
3-00000006	I*4	EMBSQ_HD_TIME	8	(2)
2-0000001C	I*4	ENTRY_TYPE_BUFFER	2048	(4, 128)
2-00000014	I*4	LATEST_ENTRY_TIME	8	(2)
2-0000081C	I*2	PROCESSED_ENTRY_HISTOGRAM	48	(0:23)
2-00000854	I*2	TIME_BUFFER	14	(7)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
0-00000054	10	**	20	0-0000011E	25	**	30	0-00000132	35	**	100
1-00000015	110'	1-00000045	120'	**	122	0-00000349	124	1-00000083	125'	1-000000c4	130'
**	145	0-000003E8	150	**	150	**	200	**	220	**	300

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
	ENTRY_SUMMARY_DESCRIPTOR_LOAD		ENTRY_SUMMARY_WRI E		FRCTOF
	INSQUE	I*4	LIB\$EXTZV	L*1	LIB\$GET_VM
	LINCHK		MOVCS		MOVCS
	MOVQ		SYSSASCTIM	L*1	SYSSNUMTIM
I*4	TIMCMP				

ENT
COM
R
E
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D

```
0001
0002
0003
0004
0005      subroutine entry_summary_descriptor_load (logging_sid,buffer)
0006
0007
0008
0009
0010      c++
0011      c      functional description
0012      c
0013      c      This routine constructs the entry type title descriptor
0014      c      for valid entry values for each CPU type. Unknown entry values
0015      c      for the particular CPU type are left zero.
0016      c--
0017
0018
0019
0020
0021      integer*4      logging_sid
0022
0023      integer*4      buffer(2,2,128)
0024
0025      integer*4      sid_high_byte
0026
0027
0028
0029
0030      character*21   device_error
0031      data          device_error      /'DEVICE ERROR BIT SET*'/
0032
0033      character*14   machine_check
0034      data          machine_check     /'MACHINE CHECK*'/
0035
0036      character*10   sbi_fault
0037      data          sbi_fault        /'SBI FAULT*'/
0038
0039      character*10   sbi_alert
0040      data          sbi_alert        /'SBI ALERT*'/
0041
0042      character*13   soft_ecc
0043      data          soft_ecc         /'MEMORY ERROR*'/
0044
0045      character*23   async_write
0046      data          async_write      /'SBI ASYNCHRONOUS WRITE*'/
0047
0048      character*16   write_bus_error
0049      data          write_bus_error  /'WRITE BUS ERROR*'/
0050
0051      character*19   hard_ecc
0052      data          hard_ecc         /'FATAL MEMORY ERROR*'/
0053
0054      character*13   volume_mount
0055      data          volume_mount     /'VOLUME MOUNT*'/
0056
0057      character*16   volume_dismount
```



```

0115      data      mscp_message          /'ERL$LOGMESSAGE*'/
0116
0117      Character*12  mscp_message2
0118      Data      mscp_message2          /'ERL$LOGMSCP*'/
0119
0120      character*14  mscp_software_status
0121      data      mscp_software_status  /'ERL$LOGSTATUS*'/
0122
0123      Character*22  environmental_monitor
0124      Data      environmental_monitor  /'ENVIRONMENTAL MONITOR*'/
0125
0126      Character*9   cpu_halt
0127      Data      cpu_halt              /'CPU HALT*'/
0128
0129      Character*15  console_reboot
0130      Data      console_reboot        /'CONSOLE REBOOT*'/
0131
0132
0133      sid_high_byte = lib$extzv (24,8,logging_sid)
0134
0135      c
0136      c      11/78J
0137      c
0138
0139      if (sid_high_byte .eq. 255
0140      1 .or.
0141      1 sid_high_byte .eq. 1) then
0142
0143      buffer(2,1,1) = %loc(device_error)
0144
0145      buffer(2,1,2) = %loc(machine_check)
0146
0147      buffer(2,1,4) = %loc(sbi_fault)
0148
0149      buffer(2,1,5) = %loc(sbi_alert)
0150
0151      buffer(2,1,6) = %loc(soft_ecc)
0152
0153      buffer(2,1,7) = %loc(async_write)
0154
0155      buffer(2,1,8) = %loc(hard_ecc)
0156
0157      buffer(2,1,9) = %loc(uba_interrupt)
0158
0159      buffer(2,1,12) = %loc(mba_interrupt)
0160
0161      buffer(2,1,32) = %loc(start_up)
0162
0163      buffer(2,1,34) = %loc(power_fail)
0164
0165      buffer(2,1,35) = %loc(new_logfile)
0166
0167      buffer(2,1,36) = %loc(power_start)
0168
0169      buffer(2,1,37) = %loc(fatal_bugcheck)
0170
0171      buffer(2,1,38) = %loc(time_stamp)

```



```
0172
0173     buffer(2,1,39) = %loc(ss_message)
0174
0175     buffer(2,1,40) = %loc(sys_bugcheck)
0176
0177     buffer(2,1,41) = %loc(op_message)
0178
0179     buffer(2,1,42) = %loc(nt_message)
0180
0181     buffer(2,1,64) = %loc(volume_mount)
0182
0183     buffer(2,1,65) = %loc(volume_dismount)
0184
0185     buffer(2,1,96) = %loc(device_timeout)
0186
0187     buffer(2,1,97) = %loc(undefined_int)
0188
0189     buffer(2,1,98) = %loc(device_attention)
0190
0191     buffer(2,1,99) = %loc(mscp_software_status)
0192
0193     buffer(2,1,100) = %loc(mscp_message)
0194
0195     buffer(2,1,101) = %loc(mscp_message2)
0196
0197     buffer(2,1,112) = %loc(user_bugcheck)
0198
0199     c
0200     c
0201     c
0202
0203     else if (sid_high_byte .eq. 2) then
0204
0205     buffer(2,1,1) = %loc(device_error)
0206
0207     buffer(2,1,2) = %loc(machine_check)
0208
0209     buffer(2,1,6) = %loc(soft_ecc)
0210
0211     buffer(2,1,7) = %loc(write_bus_error)
0212
0213     buffer(2,1,8) = %loc(hard_ecc)
0214
0215     buffer(2,1,32) = %loc(start_up)
0216
0217     buffer(2,1,34) = %loc(power_fail)
0218
0219     buffer(2,1,35) = %loc(new_logfile)
0220
0221     buffer(2,1,36) = %loc(power_start)
0222
0223     buffer(2,1,37) = %loc(fatal_bugcheck)
0224
0225     buffer(2,1,38) = %loc(time_stamp)
0226
0227     buffer(2,1,39) = %loc(ss_message)
0228
```



```
0343      buffer(2,1,37) = %loc(fatal_bugcheck)
0344
0345      buffer(2,1,38) = %loc(time_stamp)
0346
0347      buffer(2,1,39) = %loc(ss_message)
0348
0349      buffer(2,1,40) = %loc(sys_bugcheck)
0350
0351      buffer(2,1,41) = %loc(op_message)
0352
0353      buffer(2,1,42) = %loc(nt_message)
0354
0355      buffer(2,1,64) = %loc(volume_mount)
0356
0357      buffer(2,1,65) = %loc(volume_dismount)
0358
0359      buffer(2,1,96) = %loc(device_timeout)
0360
0361      buffer(2,1,97) = %loc(undefined_int)
0362
0363      buffer(2,1,98) = %loc(device_attention)
0364
0365      buffer(2,1,99) = %loc(mscp_software_status)
0366
0367      buffer(2,1,100) = %loc(mscp_message)
0368
0369      buffer(2,1,101) = %loc(mscp_message2)
0370
0371      buffer(2,1,112) = %loc(user_bugcheck)
0372
0373      C
0374      C      UVAX1
0375      C
0376
0377      else if (sid_high_byte .eq. 7) then
0378
0379          buffer(2,1,1) = %loc(device_error)
0380
0381          buffer(2,1,2) = %loc(machine_check)
0382
0383          buffer(2,1,6) = %loc(soft_ecc)
0384
0385          buffer(2,1,7) = %loc(async_write)
0386
0387          buffer(2,1,8) = %loc(hard_ecc)
0388
0389          buffer(2,1,32) = %loc(start_up)
0390
0391          buffer(2,1,34) = %loc(power_fail)
0392
0393          buffer(2,1,35) = %loc(new_logfile)
0394
0395          buffer(2,1,36) = %loc(power_start)
0396
0397          buffer(2,1,37) = %loc(fatal_bugcheck)
0398
0399          buffer(2,1,38) = %loc(time_stamp)
```

```
0400
0401      buffer(2,1,39) = %loc(ss_message)
0402
0403      buffer(2,1,40) = %loc(sys_bugcheck)
0404
0405      buffer(2,1,41) = %loc(op_message)
0406
0407      buffer(2,1,42) = %loc(nt_message)
0408
0409      buffer(2,1,64) = %loc(volume_mount)
0410
0411      buffer(2,1,65) = %loc(volume_dismount)
0412
0413      buffer(2,1,96) = %loc(device_timeout)
0414
0415      buffer(2,1,98) = %loc(device_attention)
0416
0417      buffer(2,1,99) = %loc(mscp_software_status)
0418
0419      buffer(2,1,100) = %loc(mscp_message)
0420
0421      buffer(2,1,101) = %loc(mscp_message2)
0422
0423      buffer(2,1,112) = %loc(user_bugcheck)
0424
0425      endif
0426      buffer(2,1,128) = %loc(unknown_entry)
0427
0428      do 10,i = 1,128
0429      buffer(1,1,i) = 33
0430
0431      10      continue
0432
0433      return
0434
0435      end
0436
```


ENTRY_SUMMARY_DESCRIPTOR_LOAD

D 6
16-Sep-1984 00:28:26
5-Sep-1984 14:22:35

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

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name

I*4 LIBSEXTZV

TIM
005
005
006
006
006
006
006
006
006
006
006
006
006
006
007
007
007
007
007
007
007
007
007
007
PRC
C
1
2
ENT
C
ARF
AF
AF
FUP
1

```
0001
0002
0003
0004 subroutine entry_summary_write (lun,summary_title,complete_count,
0005 1 incomplete_count)
0006
0007
0008
0009 C++
0010 C
0011 C This routine writes the summary totals to the listing device.
0012 C
0013 C--
0014
0015
0016
0017
0018 byte lun
0019
0020 character*(*) summary_title
0021
0022 integer*4 complete_count
0023
0024 integer*4 incomplete_count
0025
0026 integer*4 compress4
0027
0028 integer*4 compressc
0029
0030 integer*4 field
0031
0032
0033
0034 call linchk (lun,1)
0035
0036 field = compress4 (complete_count)
0037
0038 write(lun,10) summary_title,complete_count
0039 10 format(' ',t8,a<compressc (summary_title)>,t<47 - field>,
0040 1 i<field>,'.')
0041
0042 if (incomplete_count .ne. 0) then
0043
0044 field = compress4 (incomplete_count)
0045
0046 call linchk (lun,1)
0047
0048 write(lun,20) summary_title,incomplete_count
0049 20 format(' ',t8,'INCOMPLETE ',a<compressc (summary_title)>,
0050 1 t<47 - field>,i<field>,'.')
0051 endif
0052
0053 return
0054
0055 end
```

TIM

COM

F

/

/

/

COM

R

E

P

D

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	238	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	71	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	44	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated		353

ENTRY POINTS

Address	Type	Name
0-00000000		ENTRY_SUMMARY_WRITE

VARIABLES

Address	Type	Name	Address	Type	Name
AP-0000000c	I*4	COMPLETE_COUNT	2-00000000	I*4	FIELD
AP-00000010	I*4	INCOMPLETE_COUNT	AP-00000004	L*1	LUN
2-00000004	CHAR	SUMMARY_TITLE			

LABELS

Address	Label	Address	Label
1-00000004	10'	1-0000001F	20'

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
I*4	COMPRESS4	I*4	COMPRESSC		LINCHK

COMMAND QUALIFIERS

FORTRAN /LIS=LIS\$:SUMMARY/OBJ=OBJ\$:SUMMARY MSRC\$:SUMMARY
 /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

