


```
0001      SUBROUTINE ML11 (LUN)
0002      C
0003      C Version:      'V04-000'
0004      C
0005      C*****
0006      C*
0007      C* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0009      C* ALL RIGHTS RESERVED.
0010      C*
0011      C* THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0012      C* ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
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0021      C*
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0023      C* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0024      C*
0025      C*
0026      C*****
0027      C
0028      C
0029      C
0030      C      Author: Sharon Reynolds          Creation date: 12-Dec-80
0031      C
0032      C
0033      C++
0034      C      Functional description:
0035      C
0036      C      This module builds the error log report for the ML11 solid-state
0037      C      disk.
0038      C
0039      C      Modified by:
0040      C
0041      C      V03-003 SAR0227      Sharon A. Reynolds,      28-Mar-1984
0042      C      Changed the call to UCBSL_OWNUIC to ORBSL_OWNER.
0043      C
0044      C      V03-002 SAR0114      Sharon A. Reynolds,      23-Jun-1983
0045      C      Changed the carriage control in the 'format' statements
0046      C      for use with ERF.
0047      C
0048      C      V03-001 SAR0048      Sharon A. Reynolds,      13-Jun-1983
0049      C      Removed brif/cryptic support.
0050      C
0051      C      V02-003 BP0003      Brian Porter,      18-NOV-1981
0052      C      Added new mba code. Minor edit.
0053      C
0054      C      V02-002 BP0002      Brian Porter,      05-NOV-1981
0055      C      Added 'device attention' support.
0056      C
0057      C      V02-001 BP0001      Brian Porter,      01-JUL-1981
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0058      C          Added call to DHEAD and LOGGER. Added DIAGNOSTIC_MODE.
0059      C--
0060      C**
0061
0062
0063      Include 'SRC$:MSGHDR.FOR /NOLIST'
0122      Include 'SRC$:DEVERR.FOR /NOLIST'
0223
0224
0225      Byte          lun
0226
0227
0228      Parameter      timeout = 96
0229      Parameter      xfer_cmd = 20
0230
0231
0232      Integer*4      COMPRESSC
0233      Integer*4      COMPRESS4
0234
0235      Integer*4      field
0236
0237      integer*4      adapter_registers(7)
0238
0239      integer*4      selected_map_register
0240
0241      Integer*4      irp_flag
0242      Integer*4      mlcs1
0243      Integer*4      mlds
0244      Integer*4      mler
0245      Integer*4      mlmr
0246      Integer*4      mlas
0247      Integer*4      mlda
0248      Integer*4      mldt
0249      Integer*4      mlsn
0250      Integer*4      mle1
0251      Integer*4      mle2
0252      Integer*4      mlee
0253      Integer*4      mlcl
0254      Integer*4      prom_dis
0255      Integer*4      prom_rw
0256      Integer*4      drv_func
0257      Integer*4      type
0258      Integer*4      cards
0259      Integer*4      chan
0260      Integer*4      err_func
0261      Integer*4      crc_err
0262      Integer*4      sngl_err
0263      Integer*4      unc_err
0264      Integer*4      wrd
0265
0266      logical*1      diagnostic_mode
0267
0268      Character*7     mlcs1_1(0:0)
0269      Character*16    mlcs1_2(11:11)
0270      Character*14    mlds_1(6:8)
0271      Character*23    mlds_2(10:10)
0272      Character*17    mlds_3(14:15)
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0330 C
0331
0332 Data mler_1(0) /*ILLEGAL FUNCTION*/
0333 Data mler_1(1) /*ILLEGAL REGISTER*/
0334 Data mler_1(2) /*REGISTER MODIFY REFUSED*/
0335 Data mler_1(3) /*CONTROL PARITY*/
0336
0337 Data mler_2(5) /*DATA PARITY*/
0338 Data mler_2(6) /*ECC HARD ERROR*/
0339
0340 Data mler_3(9) /*ADDRESS OVERFLOW ERROR*/
0341 Data mler_3(10) /*INVALID ADDRESS ERROR*/
0342
0343 Data mler_4(13) /*OPERATION INCOMPLETE*/
0344 Data mler_4(14) /*DRIVE UNSAFE*/
0345 Data mler_4(15) /*DATA CHECK*/
0346
0347
0348 C
0349 C Define text for bits in the ML11 maintenance register
0350 C
0351
0352 Data mlmr_1(1) /*ECC DISABLED*/
0353 Data mlmr_1(2) /*DATA CHECK ENABLE*/
0354
0355 Data mlmr_2(7) /*REFRESH RATE DECREASED BY 50%*/
0356
0357 Data xfer_rate(0) /*2.0 MBYTE/SECOND*/
0358 Data xfer_rate(1) /*1.0 MBYTE/SECOND*/
0359 Data xfer_rate(2) /*.5 MBYTE/SECOND*/
0360 Data xfer_rate(3) /*.25 MBYTE/SECOND*/
0361
0362 Data array_typ(0) /*16K CHIP ARRAYS*/
0363 Data array_typ(1) /*64K CHIP ARRAYS*/
0364
0365
0366 C
0367 C Construct the report header
0368 C
0369
0370 Call FRCTOF (lun)
0371
0372 call dhead1 (lun,'MASSBUS')
0373
0374 C
0375 C Establish if it was a data transfer type command and get the
0376 C massbus registers if so
0377 C
0378
0379 diagnostic_mode = .false.
0380
0381 if (lib$extzv(0,1,mlmr) .eq. 1) diagnostic_mode = .true.
0382
0383 if (lib$extzv(3,1,mlmr) .eq. 1) diagnostic_mode = .true.
0384
0385 if (lib$extzv(5,2,mlmr) .ne. 0) diagnostic_mode = .true.
0386

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0387     Drv_func = LIBSEXTZV (1,5,mlcs1)
0388
0389     If (
0390     1 EMB$W_DV_BCNT .ne. 0
0391     1 .and.
0392     1 drv_func .ge. xfer_cmd
0393     1 .and.
0394     1 emb$w_hd_entry .ne. 98
0395     1 ) then
0396
0397     call mba_control_registers (lun,5,adapter_registers,
0398     1 selected_map_register)
0399
0400     call mba_mapping_register (lun,selected_map_register,
0401     1 adapter_registers(6))
0402
0403     if (selected_map_register .gt. 0) then
0404
0405     call mba_mapping_register (lun,(selected_map_register - 1),
0406     1 adapter_registers(7))
0407     endif
0408     Endif
0409
0410
0411     C
0412     C
0413     C
0414
0415     Call LINCHK (lun,2)
0416     Write (lun,20) mlcs1
0417     20 Format (' ',T8,'MLCS1',T24,Z8.8)
0418
0419     if (.not. diagnostic_mode) then
0420
0421     call mba_status_register16_31 (lun,mlcs1,mlcs1,0)
0422
0423     Call OUTPUT (lun,mlcs1,mlcs1_1,0,0,0,'0')
0424
0425     Call LINCHK (lun,1)
0426     If (drv_func .eq. 0) then
0427     Write (lun,22)
0428     22 Format (' ',T40,'NO-OPERATION')
0429
0430     Else if (drv_func .eq. 4) then
0431     Write (lun,24)
0432     24 Format (' ',T40,'DRIVE CLEAR')
0433
0434     Else if (drv_func .eq. 8) then
0435     Write (lun,26)
0436     26 Format (' ',T40,'READ IN PRESET')
0437
0438     Else if (drv_func .eq. 12) then
0439     Write (lun,28)
0440     28 Format (' ',T40,'SEARCH')
0441
0442     Else if (drv_func .eq. 20) then
0443     Write (lun,30)

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0501      Call OUTPUT (lun,mler,mler_4,13,13,15,'0')
0502      endif
0503
0504      C
0505      C      Decode and output the bits in the maintenance register
0506      C
0507
0508      Call LINCHK (lun,1)
0509      Write (lun,60) m(mr
0510      Format (' ',T8,'MLMR',T24,Z8.8)
0511      60
0512      if (.not. diagnostic_mode) then
0513
0514      call mba_status_register16_31 (lun,mler,mlmr,1)
0515
0516      call output (lun,mlmr,mlmr_1,1,1,2,'0')
0517
0518      Call OUTPUT (lun,mlmr,mlmr_2,7,7,7,'0')
0519
0520      Field = LIB$EXTZV (8,2,mlmr)
0521
0522      Call LINCHK (lun,1)
0523      Write (lun,75) xfer_rate(field)
0524      75      Format (' ',T40,'XFER RATE = '
0525      1 A<COMPRESSC (xfer_rate(field))>)
0526
0527      Type = LIB$EXTZV (10,1,mlmr)
0528      Cards = LIB$EXTZV (11,5,mlmr)
0529
0530      Call LINCHK (lun,2)
0531
0532      Write (lun,80) aray_typ(type)
0533      80      Format (' ',T40,A<COMPRESSC (aray_typ(type))>)
0534
0535      Write (lun,85) cards
0536      85      Format (' ',T40,I<COMPRESS4 (cards)>,
0537      1 ' . ARRAY MODULES')
0538      else
0539
0540      Call LINCHK (lun,1)
0541      Write (lun,70)
0542      70      Format (' ',T40,'DIAGNOSTIC MODE')
0543      Endif
0544
0545      C
0546      C      Decode and output the bits in the attention summary register
0547      C
0548
0549      Call LINCHK (lun,1)
0550      Write (lun,100) mlas
0551      100     Format (' ',T8,'MLAS',T24,Z8.8)
0552
0553      if (.not. diagnostic_mode) then
0554
0555      call mba_status_register16_31 (lun,mlmr,mlas,1)
0556
0557      Do 106, I=0,7

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ARRAYS

Address	Type	Name	Bytes	Dimensions
3-00000052	I*4	ADAPTER_REGISTERS	28	(7)
2-0000020B	CHAR	ARRAY_TYP	32	(0:1)
3-00000000	L*1	EMB	512	(0:511)
3-00000052	I*4	EMBSL_DV_REGSAV	420	(0:104)
3-00000006	I*4	EMBSQ_HD_TIME	8	(2)
2-00000000	CHAR	MLCS1-1	7	(0:0)
2-00000007	CHAR	MLCS1-2	16	(11:11)
2-00000017	CHAR	MLDS-1	42	(6:8)
2-00000041	CHAR	MLDS-2	23	(10:10)
2-00000058	CHAR	MLDS-3	34	(14:15)
2-0000007A	CHAR	MLDS_MOL	32	(0:1)
2-0000009A	CHAR	MLER-1	96	(0:3)
2-000000FA	CHAR	MLER-2	30	(5:6)
2-00000118	CHAR	MLER-3	46	(9:10)
2-00000146	CHAR	MLER-4	63	(13:15)
2-00000185	CHAR	MLMR-1	36	(2)
2-000001A9	CHAR	MLMR-2	30	(7:7)
2-000001C7	CHAR	XFER_RATE	68	(0:3)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
1-0000004A	20'	1-0000005D	22'	1-00000071	24'	1-00000084	26'	1-0000009A	28'	1-000000A8	30'
1-0000008B	32'	1-000000CD	34'	1-000000DE	40'	1-000000EF	45'	1-000000FB	50'	1-0000010C	60'
1-00000160	70'	1-0000011D	75'	1-00000137	80'	1-00000143	85'	1-00000177	100'	1-00000188	105'
**	106	1-000001A4	120'	1-000001B5	130'	1-000001CF	140'	1-000001E0	150'	1-000001F9	160'
1-0000020A	170'	1-0000021B	180'	1-0000022C	190'	**	194	1-0000023D	195'	1-0000024E	196'
1-00000276	197'	1-0000028A	198'	1-000002B2	199'	1-000002CD	200'	1-000002DE	205'		

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
I*4	COMPRESS4	I*4	COMPRESSC		DHEAD1
	FRCTOF		IRPSL_PID		IRPSQ_IOSB
	IRPSW_BCNT		IRPSW_BOFF	I*4	LIBSEXTZV
	LINCHR		MBA_CONTROL_REGISTERS		MBA_MAPPING_REGISTER
	MBA_STATUS_REGISTER16_31		MLIT_QIO		ORBSL_OWNER
	OUTPUT		UCBSB_ERTCNT		UCBSB_ERTMAX
	UCBSL_CHAR		UCBSL_OPcnt		UCBSW_ERRCNT
	UCBSW_STS				

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0001  
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0003  
0004      Subroutine ML11_QIO (lun,emb$w_dv_func)  
0005  
0006      include 'src$:qiocommon.for /nolist'  
0270  
0271  
0272      byte          lun  
0273  
0274      integer*2     emb$w_dv_func  
0275  
0276      integer*4     qiocode(0:1,0:63)  
0277  
0278  
0279      if (qiocode(0,0) .eq. 0) then  
0280  
0281      qiocode(1,00) = %loc(io$_nop)  
0282  
0283      qiocode(1,01) = %loc(io$_unload)  
0284  
0285      qiocode(1,02) = %loc(io$_seek)  
0286  
0287      qiocode(1,03) = %loc(io$_recal)  
0288  
0289      qiocode(1,04) = %loc(io$_drvclr)  
0290  
0291      qiocode(1,05) = %loc(io$_release)  
0292  
0293      qiocode(1,06) = %loc(io$_offset)  
0294  
0295      qiocode(1,07) = %loc(io$_retcenter)  
0296  
0297      qiocode(1,08) = %loc(io$_packack)  
0298  
0299      qiocode(1,09) = %loc(io$_search)  
0300  
0301      qiocode(1,10) = %loc(io$_writecheck)  
0302  
0303      qiocode(1,11) = %loc(io$_writepblk)  
0304  
0305      qiocode(1,12) = %loc(io$_readpblk)  
0306  
0307      qiocode(1,13) = %loc(io$_writehead)  
0308  
0309      qiocode(1,14) = %loc(io$_readhead)  
0310  
0311      qiocode(1,24) = %loc(io$_writecheckh)  
0312  
0313      qiocode(1,25) = %loc(io$_readpreset)  
0314  
0315      qiocode(1,26) = %loc(io$_setchar)  
0316  
0317      qiocode(1,27) = %loc(io$_sensechar)  
0318  
0319      qiocode(1,32) = %loc(io$_writelblk)  
0320
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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	309	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	8	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	548	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 \$QIOCOMMON	1247	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		2112

ENTRY POINTS

Address	Type	Name
0-00000000		ML11_Q10

VARIABLES

Address	Type	Name	Address	Type	Name
AP-00000008	I*2	EMBSW DV_FUNC	2-00000200	I*4	I
3-00000442	CHAR	IOS_ABORT	3-0000034D	CHAR	IOS_ACCESS
3-000003C2	CHAR	IOS_ACPCONTROL	3-000004B3	CHAR	IOS_AVAILABLE
3-00000297	CHAR	IOS_CLEAN	3-00000369	CHAR	IOS_CREATE
3-00000385	CHAR	IOS_DEACCESS	3-00000393	CHAR	IOS_DELETE
3-0000026D	CHAR	IOS_DIAGNOSE	3-00000065	CHAR	IOS_DRVCLR
3-000004CB	CHAR	IOS_DSE	3-000000A9	CHAR	IOS_ERASETAPE
3-00000276	CHAR	IOS_FORMAT	3-00000071	CHAR	IOS_INITIALIZE
3-00000014	CHAR	IOS_LOADMCODE	3-000003A1	CHAR	IOS_MODIFY
3-000003E2	CHAR	IOS_MOUNT	3-00000000	CHAR	IOS_NOP
3-0000009D	CHAR	IOS_OFFSET	3-000000EB	CHAR	IOS_PACKACK
3-000000E0	CHAR	IOS_QSTOP	3-000003EF	CHAR	IOS_RDSTATS
3-00000421	CHAR	IOS_READCSR	3-00000169	CHAR	IOS_READHEAD
3-000002B6	CHAR	IOS_READLBLK	3-0000013F	CHAR	IOS_READPBLK
3-00000200	CHAR	IOS_READPRESET	3-00000195	CHAR	IOS_READTRACKD
3-0000033A	CHAR	IOS_READVBLK	3-0000045A	CHAR	IOS_READWTHBUF
3-00000484	CHAR	IOS_READWTHXBUF	3-0000004D	CHAR	IOS_RECAL
3-0000007C	CHAR	IOS_RELEASE	3-000001AB	CHAR	IOS_REREADN
3-000001B8	CHAR	IOS_REREADP	3-000000CA	CHAR	IOS_RETCENTER
3-000002E6	CHAR	IOS_REWIND	3-000002C9	CHAR	IOS_REWINDOFF
3-000000FC	CHAR	IOS_SEARCH	3-00000024	CHAR	IOS_SEEK
3-00000231	CHAR	IOS_SENSECHAR	3-00000309	CHAR	IOS_SENSEMODE
3-0000021D	CHAR	IOS_SETCHAR	3-000003B8	CHAR	IOS_SETCLOCK
3-00000088	CHAR	IOS_SETCLOCKP	3-000002DD	CHAR	IOS_SETMODE
3-000002ED	CHAR	IOS_SKIPFILE	3-000002FA	CHAR	IOS_SKIPRECORD
3-00000029	CHAR	IOS_SPACEFILE	3-0000010E	CHAR	IOS_SPACERECORD
3-000003D7	CHAR	IOS_STARTDATA	3-000000B4	CHAR	IOS_STARTDATAP
3-00000037	CHAR	IOS_STARTMPROC	3-0000020F	CHAR	IOS_STARTSPNDL
3-00000059	CHAR	IOS_STOP	3-0000000D	CHAR	IOS_UNLOAD
3-00000468	CHAR	IOS_WRITEBUFNCRC	3-0000011E	CHAR	IOS_WRITECHECK
3-000001E4	CHAR	IOS_WRITECHECKH	3-000003FF	CHAR	IOS_WRITECSR
3-00000153	CHAR	IOS_WRITEHEAD	3-000002A2	CHAR	IOS_WRITELBLK
3-00000247	CHAR	IOS_WRITEMARK	3-00000314	CHAR	IOS_WRITEOF
3-0000012A	CHAR	IOS_WRITEPBLK	3-000001C9	CHAR	IOS_WRITERET

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FUNC
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3-0000017E CHAR IOS_WRITETRACKD
3-00000448 CHAR IOS_WRITEWTMBUF
AP-00000004a L*1 LUN

3-00000326 CHAR IOS_WRITEVBLK
3-00000257 CHAR IOS_WRITMKR
3-000004A1 CHAR QIO_STRING

ARRAYS

Address	Type	Name	Bytes	Dimensions
2-00000000	I*4	QIICODE	512	(0:1, 0:63)

LABELS

Address	Label
**	10

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
	IRPSW_FUNC	I*4	LIB\$EXTZV

COMMAND QUALIFIERS

FORTRAN /LIS=LISS:ML11/OBJ=OBJ\$;ML11 MSRCS:ML11

/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: 10.27 seconds
Elapsed Time: 23.17 seconds
Page Faults: 269
Dynamic Memory: 240 pages

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0003
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This image displays a grid of 150 terminal windows, arranged in 10 rows and 15 columns. Each window shows a different system utility or data view. The windows are organized into several groups:

- Message and Mail Utilities:** Includes windows for MESSAGE LIS, MLI LIS, MSCP LIS, MFTAPE LIS, and MOUNT LIS.
- Memory and Storage Utilities:** Includes MEMORYS LIS and MCHK.DISP LIS.
- System and Configuration Utilities:** Includes MOUXX LIS and various windows for system status, configuration, and diagnostics.
- Data and Reporting Utilities:** Includes various windows for data analysis, reporting, and monitoring.

The text in the windows is monospaced and includes various system prompts, status indicators, and data listings. Some windows show graphical elements like bar charts or progress indicators. The overall appearance is that of a multi-user terminal session on a VAX/VMS system.