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PPPPPPPP      UU      UU      DDDDDDDD      RRRRRRRR      IIIIII      VV      VV      EEEEEEEEEE      RRRRRRRR
PPPPPPPP      UU      UU      DDDDDDDD      RRRRRRRR      RRRRRRRR      VV      VV      EEEEEEEEEE      RRRRRRRR
PP      PP      UU      UU      DD      DD      RR      RR      RR      RR      RR      RR      RR      RR      RR      RR
PP      PP      UU      UU      DD      DD      RR      RR      RR      RR      RR      RR      RR      RR      RR      RR
PP      PP      UU      UU      DD      DD      RR      RR      RR      RR      RR      RR      RR      RR      RR      RR
PPPPPPPP      UU      UU      DD      DD      RRRRRRRR      IIIIII      VV      VV      EEEEEEEEEE      RRRRRRRR
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PP      UU      UU      DD      DD      RR      RR      RR      RR      RR      RR      RR      RR      RR      RR      RR
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LL      IIIIII      SSSSSSSS
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```
0001 C
0002 C Version: 'V04-000'
0003 C
0004 C*****
0005 C*
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0016 C*
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0023 C*
0024 C*
0025 C*****
0026 C
0027
0028 c Author Brian Porter Creation date 10-FEB-1982
0029
0030 c++
0031 c Functional description:
0032 c
0033 c This module displays entries logged by pudriver.
0034 c
0035 c Modified by:
0036 c
0037 c V03-008 SAR0276 Sharon A. Reynolds 20-Jun-1984
0038 c Added TMSCP message types.
0039 c
0040 c V03-007 SAR0230 Sharon A. Reynolds, 28-Mar-1984
0041 c Changed the call to UCBSL_OWNUIC to ORBSL_OWNER.
0042 c
0043 c V03-006 SAR0198 Sharon A. Reynolds, 20-Feb-1984
0044 c Added an SYE update that:
0045 c - Adds additional AZTEC 'sa' error codes.
0046 c - Adds RDRX support.
0047 c
0048 c V03-005 SAR0148 Sharon A. Reynolds, 5-Oct-1983
0049 c Added an SYE update that:
0050 c - corrects a Fortran conversion error for micro-code rev.
0051 c - corrects text descriptions and lengths.
0052 c - adds AZTEC and TU81P(partial) support.
0053 c
0054 c V03-004 SAR0091 Sharon A. Reynolds, 20-Jun-1983
0055 c Changed the carriage control in the 'format' statements
0056 c for use with ERF.
0057 c
```



```
0501 call output (lun,initialization_handshake(3),v1sa,11,11,15,'0')
0502 else
0503
0504 call sa_error (lun,initialization_handshake(3))
0505 endif
0506 endif
0507
0508 ringbase_low = 0
0509
0510 ringbase_high = 0
0511
0512 call linchk (lun,1)
0513
0514 70 write(lun,70) initialization_handshake(4)
0515 format(' ',t8,'UCBSW_HOSTSTEP2',t28,z4.4)
0516
0517 if (initialization_handshake(4) .ne. 0) then
0518
0519 call output (lun,initialization_handshake(4),v1step2_host_to_sa,0,0,
0520 1 0,'0')
0521
0522 ringbase_low = lib$extzv(1,15,initialization_handshake(4))*2
0523 endif
0524
0525 call linchk (lun,1)
0526
0527 75 write(lun,75) initialization_handshake(5)
0528 format(' ',t8,'UCBSW_PORTSTEP3',t28,z4.4)
0529
0530 if (initialization_handshake(5) .ne. 0) then
0531
0532 if (lib$extzv(15,1,initialization_handshake(5)) .eq. 0) then
0533
0534 interrupt_vector = lib$extzv(0,7,initialization_handshake(5))*4
0535
0536 call linchk (lun,1)
0537
0538 write(lun,45) interrupt_vector
0539
0540 call output (lun,initialization_handshake(5),v1step3_sa_to_host,7,7,
0541 1 7,'0')
0542
0543 call output (lun,initialization_handshake(5),v1sa,11,11,15,'0')
0544 else
0545
0546 call sa_error (lun,initialization_handshake(5))
0547 endif
0548 endif
0549
0550 call linchk (lun,1)
0551
0552 80 write(lun,80) initialization_handshake(6)
0553 format(' ',t8,'UCBSW_HOSTSTEP3',t28,z4.4)
0554
0555 if (initialization_handshake(6) .ne. 0) then
0556
0557 If (LIB$EXTZV(6,1,initialization_handshake(1)) .EQ. 0) then
```

```
0558 ringbase_high = lib$extzv(0,2,initialization_handshake(6))
0559 Endif
0560
0561 call calc_map (lun,0,ringbase_high,ringbase_low)
0562
0563 call output (lun,initialization_handshake(6),v1step3_host_to_sa,15,15,
0564 1 15,'0')
0565 endif
0566
0567 call linchk (lun,1)
0568
0569 85 write(lun,85) initialization_handshake(7)
0570 format(' ',t8,'UCBSW_PORTSTEP4',t28,z4.4)
0571
0572 if (initialization_handshake(7) .ne. 0) then
0573
0574 if (lib$extzv(15,1,initialization_handshake(7)) .eq. 0) then
0575
0576 call SA_NOERROR (lun,initialization_handshake(7))
0577 else
0578
0579 call sa_error (lun,initialization_handshake(7))
0580 endif
0581 endif
0582
0583 call linchk (lun,1)
0584
0585 90 write(lun,90) initialization_handshake(8)
0586 format(' ',t8,'UCBSW_HOSTSTEP4',t28,z4.4)
0587
0588 if (initialization_handshake(8) .ne. 0) then
0589
0590 if (lib$extzv(15,1,initialization_handshake(8)) .eq. 0) then
0591
0592 call output (lun,initialization_handshake(8),v1step4_host_to_sa,0,0,
0593 1 1,'0')
0594
0595 burst = (lib$extzv(2,6,initialization_handshake(8)) + 1)*2
0596
0597 call linchk (lun,1)
0598
0599 if (burst .eq. 0) then
0600
0601 95 write(lun,95) 'CONTROLLER USING DEFAULT 'BURST''
0602 format(' ',t40,a,:i<compress4 (burst)>,:a)
0603 else
0604
0605 write(lun,95) ''BURST', ',burst,', 16-BIT TRANSFER(S)''
0606 endif
0607 endif
0608 endif
0609
0610 call vecmapreg (lun,vec$l_mapreg)
0611
0612 call orb$l_owner (lun,emb$l_dv_ownuic)
0613
0614 call ucb$l_char (lun,emb$l_dv_char)
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0615      call ucbsw_sts (lun,emb$w_dv_sts)
0616
0617      call ucbsl_opcnt (lun,emb$sl_dv_opcnt)
0618
0619      call ucbsw_errcnt (lun,emb$w_dv_errcnt)
0620
0621      call linchk (lun,2)
0622
0623
0624      write(lun,100) (initialization_count,i = 1,2)
0625 100      format(' ',t8,'UCBSW NUMBINITS',t28,z4.4,/,
0626          1 t40,i<compress4 (lib$extzv(0,16,initialization_count))>,
0627          1 ' . INIT SEQUENCE(S)')
0628
0629      return
0630
0631
0632
0633      entry b_pudriver (lun)
0634
0635
0636
0637
0638      call header (lun)
0639
0640      call logger (lun,'DEVICE ATTENTION')
0641
0642      call linchk (lun,6)
0643
0644      if (code_word .eq. 1) then
0645
0646          write(lun,110) emb$b_dv_name(1:emb$b_dv_namng),emb$w_dv_unit,
0647 110      1 ' . INIT SEQUENCE COMPLETED'
0648          format(/' ',t8,'DSA' PORT SUB-SYSTEM, UNIT ',a,
0649          1 i<compress4 (lib$extzv(0,16,emb$w_dv_unit))>,':',:a,
0650          1 :i<compress4 (lib$extzv(0,16,code_word))>,:a)
0651
0652      else if (code_word .eq. 2) then
0653
0654          write(lun,10) emb$b_dv_name(1:emb$b_dv_namng),emb$w_dv_unit,
0655          1 ' . INIT SEQUENCE FAILURE'
0656
0657      else if (code_word .eq. 3) then
0658
0659          write(lun,10) emb$b_dv_name(1:emb$b_dv_namng),emb$w_dv_unit,
0660          1 ' . 'SA' ERROR BIT SET'
0661
0662      else if (code_word .eq. 4) then
0663
0664          write(lun,10) emb$b_dv_name(1:emb$b_dv_namng),emb$w_dv_unit,
0665          1 ' . UBA DATAPATH PURGE ERROR'
0666
0667      else if (code_word .eq. 5) then
0668
0669          write(lun,10) emb$b_dv_name(1:emb$b_dv_namng),emb$w_dv_unit,
0670          1 ' . UCODE REV AND "PUDRIVER" MIS-MATCH'
0671      else
```

```

0672
0673 write(lun,10) emb$dv_name(1:emb$b_dv_nam1 ),emb$w_dv_unit,
0674 1 'PUDRIVER' CODE #',code_word,'
0675 endif
0676
0677 write(lun,115) 'SA','PSTEP1','HSTEP1','PSTEP2','HSTEP2','PSTEP3',
0678 1 'HSTEP3','PSTEP4','HSTEP4'
0679 115 format(/' ',t8,a,t15,a,t22,a,t29,a,t36,a,t43,a,t50,a,t57,a,t64,a)
0680
0681 write(lun,120) uda_sa,(initialization_handshake(i),i = 1,8)
0682 120 format(/' ',t8,z4.4,8(' ',z4.4))
0683
0684 return
0685
0686 end
    
```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	3301	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	1001	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	1780	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 EMB	512	PIC OVR REL GBL SHR NOEXE RD WRT LONG
4 \$BLANK	4	PIC OVR REL GBL SHR NOEXE RD WRT LONG
5 SA	35	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		6633

ENTRY POINTS

Address	Type	Name	Address	Type	Name
0-00000919		B_PUDRIVER	0-00000000		PUDRIVER

VARIABLES

Address	Type	Name	Address	Type	Name
2-00000150	I*4	BURST	3-00000052	I*2	CODE_WORD
2-00000144	I*4	COMPRESSC	2-00000158	I*4	C_RNG_LNG
3-0000001C	L*1	EMBSB_DV_CLASS	3-00000010	L*1	EMBSB_DV_ERTCNT
3-00000011	L*1	EMBSB_DV_ERTMAX	3-0000003E	L*1	EMBSB_DV_NAMLNG
3-0000003A	L*1	EMBSB_DV_SLAVE	3-0000001D	L*1	EMBSB_DV_TYPE
3-00000036	I*4	EMBSL_DV_CHAR	3-00000012	I*4	EMBSL_DV_IOSB1
3-00000016	I*4	EMBSL_DV_IOSB2	3-00000026	I*4	EMBSL_DV_MEDIA
3-0000004E	I*4	EMBSL_DV_NUMREG	3-0000002E	I*4	EMBSL_DV_OPCNT
3-00000032	I*4	EMBSL_DV_OWNUIC	3-0000001E	I*4	EMBSL_DV_RQPID
3-00000000	I*4	EMBSL_HD_SID	3-0000003F	CHAR	EMBST_DV_NAME
3-00000024	I*2	EMBSW_DV_BCNT	3-00000022	I*2	EMBSW_DV_BOFF
3-0000002C	I*2	EMBSW_DV_ERRCNT	3-0000003C	I*2	EMBSW_DV_FUNC
3-0000001A	I*2	EMBSW_DV_STS	3-0000002A	I*2	EMBSW_DV_UNIT


```
0001
0002
0003 Subroutine SA_NOERROR (lun,sa_register)
0004
0005
0006 implicit none
0007
0008 byte lun
0009
0010 integer*2 sa_register
0011
0012 integer*4 micro_code_revision
0013 integer*4 port_type
0014 integer*4 lib$extzv
0015 integer*4 compress4
0016
0017 character*7 vlsa(11:15)
0018 common /sa/ vlsa
0019
0020
0021
0022 micro_code_revision = lib$extzv(0,4,sa_register)
0023
0024 call linchk (lun,1)
0025
0026 write(lun,10) micro_code_revision
0027 10 format(' ',t40,'CONTROLLER MICRO-CODE #',
0028 1 i<compress4 (micro_code_revision)>,'.')
0029
0030 port_type = lib$extzv(4,4,sa_register)
0031
0032 call linchk (lun,1)
0033
0034 if (port_type .eq. 0) then
0035
0036 write(lun,15) 'UDA50'
0037 15 format(' ',t40,'PORT IS ',a)
0038
0039 else if (port_type .eq. 1) then
0040
0041 write(lun,15) 'RC25'
0042
0043 else if (port_type .eq. 5) then
0044
0045 write(lun,15) 'TU81P'
0046
0047 else if (port_type .eq. 6) then
0048
0049 write(lun,15) 'UDA50A'
0050
0051 Else if (port_type .EQ. 7) then
0052
0053 Write(lun,15) 'RDRX'
0054
0055 else
0056 20 write(lun,20) 'PORT TYPE #',port_type
0057 format(' ',t40,a,i<compress4 (port_type)>,'.')

```

```

0058      endif
0059
0060      call output (lun,sa_register,vlsa,11,11,15,'0')
0061
0062      return
0063
0064      end

```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	408	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	130	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	188	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 SA	35	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		761

ENTRY POINTS

Address	Type	Name
0-00000000		SA_NOERROR

VARIABLES

Address	Type	Name	Address	Type	Name
AP-00000004@	L*1	LUN	2-00000000	I*4	MICRO_CODE_REVISION
2-00000004	I*4	PORT_TYPE	AP-00000008@	I*2	SA_REGISTER

ARRAYS

Address	Type	Name	Bytes	Dimensions
3-00000000	CHAR	VISA	35	(11:15)

LABELS

Address	Label	Address	Label	Address	Label
1-00000039	10'	1-00000061	15'	1-00000072	20'

SA_NOERROR

16-Sep-1984 00:27:30
5-Sep-1984 14:21:08

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DISK\$VMSMASTER:[ERF.SRC]PUDRIVER.FOR;1 Page 14

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FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name
I*4	COMPRESS4	I*4	LIBSEXTZV		LINCHK		OUTPUT

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```
0058
0059      data      port_generic_sa_error_code(14)
0060      1 /'INVALID CONNECTION IDENTIFIER*'/
0061
0062      data      port_generic_sa_error_code(15)
0063      1 /'INTERRUPT WRITE*'/
0064
0065      data      port_generic_sa_error_code(16)
0066      1 /'MAINTENANCE READ/WRITE FAILURE*'/
0067
0068      data      port_generic_sa_error_code(17)
0069      1 /'MAINTENANCE WRITE FAILURE*'/
0070
0071      data      port_generic_sa_error_code(18)
0072      1 /'CONTROLLER 'RAM'-FAILURE*'/
0073
0074      data      port_generic_sa_error_code(19)
0075      1 /'INITIALIZATION SEQUENCE FAILURE*'/
0076
0077      data      port_generic_sa_error_code(20)
0078      1 /'PROTOCOL INCOMPATIBILITY-ERROR*'/
0079
0080      data      port_generic_sa_error_code(21)
0081      1 /'PURGE/POLL HARDWARE FAILURE*'/
0082
0083
0084      character*35      aztec_sa_error_code('310'o:'356'o)
0085
0086      data      aztec_sa_error_code('310'o)
0087      1 /'READ/WRITE ERROR ON INTERRUPT*'/
0088
0089      data      aztec_sa_error_code('311'o)
0090      1 /'INCONSISTENCY AT 'U.BFIL'*'/
0091
0092      data      aztec_sa_error_code('312'o)
0093      1 /'INCONSISTENCY AT 'U.BMTY'*'/
0094
0095      data      aztec_sa_error_code('313'o)
0096      1 /'INCONSISTENCY AT 'U.ALOC'*'/
0097
0098      data      aztec_sa_error_code('314'o)
0099      1 /'INVALID SERVO ENTRY (PIP SET)*'/
0100
0101      data      aztec_sa_error_code('315'o)
0102      1 /'INVALID AT SERVO ENTRY (ERROR SET)*'/
0103
0104      data      aztec_sa_error_code('316'o)
0105      1 /'INCONSISTENCY AT 'U.SEND'*'/
0106
0107      data      aztec_sa_error_code('317'o)
0108      1 /'INCONSISTENCY AT 'U.RECV'*'/
0109
0110      data      aztec_sa_error_code('320'o)
0111      1 /'INCONSISTENCY AT 'U.ATTN'*'/
0112
0113      data      aztec_sa_error_code('321'o)
0114      1 /'INCONSISTENCY AT 'U.ONLN'*'/
```

```
0115
0116 data          aztec_sa_error_code('322'o)
0117 1 /'ILLEGAL 'D' REQUEST (U.QDRQ)*'/
0118
0119 data          aztec_sa_error_code('323'o)
0120 1 /'FENCE-POST ERROR AT ^PROTAB'^*/
0121
0122 data          aztec_sa_error_code('324'o)
0123 1 /'BAD PACKET DEQUEUED AT 'U.DONE'^*/
0124
0125 data          aztec_sa_error_code('325'o)
0126 1 /'DM' PROGRAM ILLEGAL-MEMORY STORE*'/
0127
0128 data          aztec_sa_error_code('326'o)
0129 1 /'DUP' D-Q FAILED (XFC 34/35)*'/
0130
0131 data          aztec_sa_error_code('327'o)
0132 1 /'INCONSISTENCY AT ^U.RTST'^*/
0133
0134 data          aztec_sa_error_code('330'o)
0135 1 /'INCONSISTENCY AT ^U.SEKO'^*/
0136
0137 data          aztec_sa_error_code('331'o)
0138 1 /'INCONSISTENCY AT ^U.CKSV'^*/
0139
0140 data          aztec_sa_error_code('332'o)
0141 1 /'D.OPCD' FOUND ILLEGAL OP CODE*'/
0142
0143 data          aztec_sa_error_code('333'o)
0144 1 /'D.CSF' FOUND ILLEGAL OP CODE*'/
0145
0146 data          aztec_sa_error_code('334'o)
0147 1 /'UNKNOWN BAD DRIVE-STATUS, ^D.DSTS'^*/
0148
0149 data          aztec_sa_error_code('335'o)
0150 1 /'ILLEGAL 'XFC' EXECUTED BY ^DM'^*/
0151
0152 data          aztec_sa_error_code('336'o)
0153 1 /'D' PICKED UP A ZERO-'SCB.DB'^*/
0154
0155 data          aztec_sa_error_code('337'o)
0156 1 /'INCONSISTENCY AT ^D'^IDLE [OOP]*'/
0157
0158 data          aztec_sa_error_code('340'o)
0159 1 /'DM' WORD COUNT ERROR*'/
0160
0161 data          aztec_sa_error_code('341'o)
0162 1 /'UNKNOWN DISPLAY FAULT, ^D.DFLT'^*/
0163
0164 data          aztec_sa_error_code('342'o)
0165 1 /'DRIVE NOT FAULTING, ^P.OFLN'^ STATE*'/
0166
0167 data          aztec_sa_error_code('343'o)
0168 1 /'U' POWER-UP DIAGNOSTICS FAILED*'/
0169
0170 data          aztec_sa_error_code('344'o)
0171 1 /'D' POWER-UP DIAGNOSTICS FAILED*'/
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0172
0173 data          aztec_sa_error_code('345'o)
0174 1 /'ADAPTER CARD FAILURE*/
0175
0176 data          aztec_sa_error_code('346'o)
0177 1 /'EC.TMR' TIMED OUT*/
0178
0179 data          aztec_sa_error_code('347'o)
0180 1 /'U.SEND/U.RECV' RING-READ TIMEOUT*/
0181
0182 data          aztec_sa_error_code('350'o)
0183 1 /'WAITRV' REASON AT 'D.RVCT'*/
0184
0185 data          aztec_sa_error_code('351'o)
0186 1 /'D.ARCS', CLOSEST UNDONE ZONE LOST*/
0187
0188 data          aztec_sa_error_code('352'o)
0189 1 /'U.SEEK', SEEK TO ILLEGAL TRACK*/
0190
0191 data          aztec_sa_error_code('353'o)
0192 1 /'U.HTST', INIT DIAG WRITE FAILED*/
0193
0194 data          aztec_sa_error_code('354'o)
0195 1 /'U.HTST', INIT DIAG DMA FAILED*/
0196
0197 data          aztec_sa_error_code('355'o)
0198 1 /'U.SYDR' - 'SS.DER' T, 'SS.SPN' 0*/
0199
0200 data          aztec_sa_error_code('356'o)
0201 1 /'MASTER DRIVE ACLO ASSERTED*/
0202
0203 character*7   vlsa(11:15)
0204 common /sa/  vlsa
0205
0206 integer*4     error_code
0207
0208 integer*2     lastfail_code
0209
0210 integer*4     compress4
0211
0212 integer*4     compressc
0213
0214
0215
0216 error_code = lib$extzv(0,11,sa_register)
0217
0218 call linchk (lun,1)
0219
0220 If (error_code .LE. 99) then
0221
0222   if (
0223     1 error_code .gt. 0
0224     1 .and.
0225     1 error_code .lt. 22
0226     1 ) then
0227
0228     write(lun,20) port_generic_sa_error_code(error_code)

```

```
0229 20  format(' ',t40,a<compressc (port_generic_sa_error_code(error_code))>>)
0230      Endif
0231
0232  C
0233  C      AZTEC
0234  C
0235      Else if (
0236 1 error_code .GE. '310'o
0237 1 .AND.
0238 1 error_code .LE. '356'o
0239 1 ) then
0240
0241      Write (lun,40) aztec_sa_error_code(error_code)
0242 40  format(' ',t40,A<COMPRESSC (aztec_sa_error_code(error_code))>>)
0243      Else
0244
0245      write(lun,100) error code
0246 100 format(' ',t40,'ERROR CODE #',i<compress4 (error_code)>,'.')
0247      endif
0248
0249      call output (lun,sa_register,vlsa,11,11,15,'0')
0250
0251      return
0252
0253
0254      Entry  UDA_LASTFAIL_ERROR (lun,lastfail_code)
0255
0256
0257      call linchk (lun,2)
0258
0259      write(lun,27) "'LASTFAIL" CODE',lastfail_code
0260 27  format(' ',t8,a,t28,z4.4)
0261
0262      error_code = lib$extzv (0,16,lastfail_code)
0263
0264      if (
0265 1 lastfail_code .ge. 0
0266 1 .and.
0267 1 lastfail_code .le. 22
0268 1 ) then
0269
0270      write(lun,20) port_generic_sa_error_code(error_code)
0271      else
0272
0273      write(lun,30) error code
0274 30  format(' ',t40,'ERROR CODE #',i<compress4 (error_code)>,'.')
0275      endif
0276
0277      return
0278
0279      end
0280
```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	508	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	135	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	2304	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 SA	35	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		2982

ENTRY POINTS

Address	Type	Name	Address	Type	Name
0-00000000		SA_ERROR	0-000000E5		UDA_LASTFAIL_ERROR

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name	Address	Type	Name
2-00000844	I*4	ERROR_CODE	AP-00000008@	I*2	LASTFAIL_CODE	AP-00000004@	L*1	LUN	AP-00000008@	I*2	SA_REGISTER

ARRAYS

Address	Type	Name	Bytes	Dimensions
2-000002EC	CHAR	AZTEC_SA_ERROR_CODE	1365	(200:238)
2-00000000	CHAR	PORT_GENERIC_SA_ERROR_CODE	748	(0:21)
3-00000000	CHAR	VISA	35	(11:15)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
1-00000029	20'	1-0000005E	27'	1-0000006A	30'	1-00000035	40'	1-00000041	100'

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name	Type	Name
I*4	COMPRESS4	I*4	COMPRESSC	I*4	LIB\$EXTZV		LINCHK		OUTPUT

```
0001
0002
0003
0004 Subroutine PUDRIVER_MSCP_DISPATCHER (lun,option,reccnt,
0005 1 record_length)
0006
0007
0008 include 'src$:msghdr.for /nolist'
0067 include 'src$:emblmdef.for /nolist'
0136 include 'src$:embspdef.for /nolist'
0249
0250
0251 byte lun
0252
0253 character*1 option
0254
0255 integer*4 reccnt
0256 integer*4 packet_length
0257 integer*4 record_length
0258
0259 byte mslg$b format
0260 equivalence (emb(46),mslg$b_format)
0261
0262 if (
0263 1 option .eq. 'S'
0264 1 .or.
0265 1 option .eq. 'B'
0266 1 ) then
0267
0268 if (emb$w_hd_entry .eq. 100) then ! Logmessage entry
0269
0270 call frctof (lun)
0271 call header2 (lun,reccnt)
0272 call logger (lun,'ERL$LOGMESSAGE ENTRY')
0273
0274 call dhead2 (lun,'DSA' PORT',
0275 1 emb$b_lm_namng,emb$t_lm_name,emb$w_lm_unit)
0276
0277 Packet_length = record_length - 39
0278
0279 if (mslg$b_format .eq. 0) then ! Controller error
0280
0281 if (option .eq. 'S') then
0282 call mslg$k_cnt_err (lun,packet_length)
0283 endif
0284
0285 else if (mslg$b_format .eq. 1) then ! Memory access error
0286
0287 if (option .eq. 'S') then
0288 call mslg$k_bus_addr (lun,packet_length)
0289 endif
0290
0291 else if (
0292 1 mslg$b_format .eq. 2 ! Disk transfer error - mslg$k_disk_trn
0293 1 .OR.
0294 1 mslg$b_format .EQ. 5 ! Tape transfer error - mslg$k_tape_trn
0295 1 ) then
```

```
0296
0297   if (option .eq. 'S') then
0298   call DISK_TAPE_TRANSFER_ERRORS (lun,packet_length)
0299   endif
0300
0301   else if (
0302   1 mslg$b_format .eq. 3 ! SDI/STI errors
0303   1 .OR.
0304   1 mslg$b_format .EQ. 6 ! STI comm or cmd failure - mslg$k_sti_err
0305   1 .OR.
0306   1 mslg$b_format .EQ. 7 ! STI drive error - mslg$k_sti_del
0307   1 .OR.
0308   1 mslg$b_format .EQ. 8 ! STI formatter error - mslg$k_sti_fel
0309   1 ) then
0310
0311   if (option .eq. 'S') then
0312   call SDI_STI_ERRORS (lun,packet_length)
0313   endif
0314
0315   else if (mslg$b_format .eq. 4) then ! Small disk error
0316
0317   if (option .eq. 'S') then
0318   call mslg$k_sml_dsk (lun,packet_length)
0319   endif
0320   else
0321
0322   call erllogmsg2 (lun,record_length)
0323   endif
0324
0325   else if (emb$w_hd_entry .eq. 99) then ! Logstatus entry
0326
0327   call frctof (lun)
0328   call header2 (lun,recnt)
0329   call logger (lun,'ERL$LOGSTATUS ENTRY')
0330
0331   call dhead2 (lun,''DSA'' PORT',
0332   1 emb$b_sp_namlng,emb$t_sp_name,emb$w_sp_unit)
0333
0334   call erllogsts2 (lun)
0335   endif
0336   endif
0337
0338   return
0339   end
```


PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	379	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	52	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	156	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 EMB	512	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated		1099

ENTRY POINTS

Address	Type	Name
0-00000000		PUDRIVER_MSCP_DISPATCHER

VARIABLES

Address	Type	Name	Address	Type	Name
3-00000010	L*1	EMBSB_LM_CLASS	3-00000014	L*1	EMBSB_LM_NAMLANG
3-00000011	L*1	EMBSB_LM_TYPE	3-00000010	L*1	EMBSB_SP_CLASS
3-00000040	L*1	EMBSB_SP_NAMLANG	3-00000011	L*1	EMBSB_SP_TYPE
3-00000000	I*4	EMBSL_HD_SID	3-00000014	I*4	EMBSL_SP_BCNT
3-00000038	I*4	EMBSL_SP_CHAR	3-0000003C	I*4	EMBSL_SP_CMDREF
3-00000020	I*4	EMBSL_SP_IOSB1	3-00000024	I*4	EMBSL_SP_IOSB2
3-00000018	I*4	EMBSL_SP_MEDIA	3-0000002C	I*4	EMBSL_SP_OPCNT
3-00000034	I*4	EMBSL_SP_OWNUIC	3-0000001C	I*4	EMBSL_SP_RQPID
3-00000015	CHAR	EMBST_LM_NAME	3-00000041	CHAR	EMBST_SP_NAME
3-00000004	I*2	EMBSW_HD_ENTRY	3-0000000E	I*2	EMBSW_HD_ERRSEQ
3-00000024	I*2	EMBSW_LM_MSGTYP	3-00000012	I*2	EMBSW_LM_UNIT
3-00000012	I*2	EMBSW_SP_BOFF	3-00000030	I*2	EMBSW_SP_ERRCNT
3-00000028	I*2	EMBSW_SP_FUNC	3-00000032	I*2	EMBSW_SP_STS
3-0000002A	I*2	EMBSW_SP_UNIT	AP-00000004a	L*1	LUN
3-0000002E	L*1	MSLGSB_FORMAT	AP-00000008a	CHAR	OPTION
2-00000000	I*4	PACKET_LENGTH	AP-0000000Ca	I*4	RECCNT
AP-00000010a	I*4	RECORD_LENGTH			

ARRAYS

Address	Type	Name	Bytes	Dimensions
3-00000000	L*1	EMB	512	(0:511)
3-00000026	L*1	EMBSB_LM_MSGTXT	460	(460)
3-00000006	I*4	EMBSQ_HD_TIME	8	(2)

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name
	DHEAD2		DISK_TAPE_TRANSFER_ERRORS		ERLLOGMSG2
	ERLLOGSTS2		FRCTDF		HEADER2
	LOGGER		MSLG\$K_BUS_ADDR		MSLG\$K_CNT_ERR
	MSLG\$K_SML_DSK		SDI_STI_ERRORS		

COMMAND QUALIFIERS

FORTRAN /LIS=LISS:PUDRIVER/OBJ=OBJ\$:PUDRIVER MSRC\$:PUDRIVER
 /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: 14.08 seconds
 Elapsed Time: 32.70 seconds
 Page Faults: 280
 Dynamic Memory: 250 pages

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