```
EEEEEEEEEEEEEEE  RRRRRRRRRRRR     FFFFFFFFFFFFFFF
EEEEEEEEEEEEEEE  RRRRRRRRRRRR     FFFFFFFFFFFFFFF
EEEEEEEEEEEEEEE  RRRRRRRRRRRR     FFFFFFFFFFFFFFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEE              RRR         RRR  FFF
EEEEEEEEEEEE     RRRRRRRRRRRR     FFFFFFFFFFFF
EEEEEEEEEEEE     RRRRRRRRRRRR     FFFFFFFFFFFF
EEEEEEEEEEEE     RRRRRRRRRRRR     FFFFFFFFFFFF
EEE              RRR   RRR        FFF
EEE              RRR   RRR        FFF
EEE              RRR   RRR        FFF
EEE              RRR      RRR     FFF
EEE              RRR      RRR     FFF
EEE              RRR      RRR     FFF
EEEEEEEEEEEEEEE  RRR         RRR  FFF
EEEEEEEEEEEEEEE  RRR         RRR  FFF
EEEEEEEEEEEEEEE  RRR         RRR  FFF
```

FILEID**DUP3271

```
DDDDDDDD    UU      UU  PPPPPPPP      333333      222222    77777777        11
DDDDDDDD    UU      UU  PPPPPPPP      333333      222222    77777777        11
DD      DD  UU      UU  PP      PP  33      33  22      22          77    1111
DD      DD  UU      UU  PP      PP  33      33  22      22          77    1111
DD      DD  UU      UU  PP      PP          33          22          77      11
DD      DD  UU      UU  PP      PP          33          22          77      11
DD      DD  UU      UU  PPPPPPPP          33          22        77        11
DD      DD  UU      UU  PPPPPPPP          33          22        77        11
DD      DD  UU      UU  PP                  33      22        77          11
DD      DD  UU      UU  PP                  33      22        77          11
DD      DD  UU      UU  PP          33      33    22          77          11          ....
DD      DD  UU      UU  PP          33      33    22          77          11          ....
DDDDDDDD    UUUUUUUUUU  PP            333333    2222222222  77          111111        ....
DDDDDDDD    UUUUUUUUUU  PP            333333    2222222222  77          111111        ....

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
```

```
      SUBROUTINE DUP3271 (lun)
C
C Version:      'V04-000'
C
C*****************************************************************************
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C*                                                                           *
C*****************************************************************************
C
C
C
C       Author: Sharon Reynolds                 Creation date:10-Sept-80
C
C
C++
C       Functional description:
C
C       This module builds the error log report for the Dup11/3271
C       Protocol Emulator (XKDRIVER).
C
C       Modified by:
C
C       V03-003 SAR0221         Sharon A. Reynolds,     28-Mar-1984
C               Changed the call to UCB$L_OWNUIC to ORB$L_OWNER.
C
C       V03-002 SAR0113         Sharon A. Reynolds,     23-Jun-1983
C               Changed the carriage control in the 'format' statements
C               for use with ERF.
C
C       V03-001 SAR0034         Sharon A. Reynolds,     8-Jun-1983
C               Removed brief support.
C
C       v02-003 BP0003          Brian Porter,           23-NOV-1981
C               Minor edit.
C
C       v02-002 BP0002          Brian Porter,           06-NOV-1981
C               Added 'device attention' support.
C
C       v02-001 BP0001          Brian Porter,           29-JUN-1981
```

```
C                Added call to logger.
C**
C--

        Include 'SRC$:MSGHDR.FOR /NOLIST'
        Include 'SRC$:DEVERR.FOR /NOLIST'



        Byte            lun

        Parameter       timeout = 96
        Parameter       count = 18

        Integer*4       field
        Integer*4       compress4
        Integer*4       compressC
        Integer*4       rxcsr
        Integer*4       rxdbuf
        Integer*4       parcsr
        Integer*4       txcsr
        Integer*4       txdbuf
        Integer*4       stats(0:18)
        Integer*4       tnak
        Integer*4       rnak
        Integer*4       tenq
        Integer*4       reng
        Integer*4       trvi
        Integer*4       rrvi
        Integer*4       rcnv
        Integer*4       chai
        Integer*4       gpol
        Integer*4       xack
        Integer*4       habo
        Integer*4       dabo
        Integer*4       rtim
        Integer*4       disc
        Integer*4       hard
        Integer*4       tblk
        Integer*4       rblk
        Integer*4       habx
        Integer*4       teot

C
C       Make the contents of the register save area in the error log
C       buffer available to this module
C

        Equivalence     (stats(0),tnak)
        Equivalence     (parcsr,EMB$L_DV_REGSAV(1))
        Equivalence     (rxcsr,EMB$L_DV_REGSAV(2))
        Equivalence     (rxdbuf,EMB$L_DV_REGSAV(3))
        Equivalence     (txcsr,EMB$L_DV_REGSAV(4))
        Equivalence     (txdbuf,EMB$L_DV_REGSAV(5))
        Equivalence     (tnak,EMB$L_DV_REGSAV(6))
        Equivalence     (rnak,EMB$L_DV_REGSAV(7))
```

```
            Equivalence     (tenq,EMB$L_DV_REGSAV(8))
            Equivalence     (renq,EMB$L_DV_REGSAV(9))
            Equivalence     (trvi,EMB$L_DV_REGSAV(10))
            Equivalence     (rrvi,EMB$L_DV_REGSAV(11))
            Equivalence     (rcnv,EMB$L_DV_REGSAV(12))
            Equivalence     (chai,EMB$L_DV_REGSAV(13))
            Equivalence     (gpol,EMB$L_DV_REGSAV(14))
            Equivalence     (xack,EMB$L_DV_REGSAV(15))
            Equivalence     (habo,EMB$L_DV_REGSAV(16))
            Equivalence     (dabo,EMB$L_DV_REGSAV(17))
            Equivalence     (rtim,EMB$L_DV_REGSAV(18))
            Equivalence     (disc,EMB$L_DV_REGSAV(19))
            Equivalence     (hard,EMB$L_DV_REGSAV(20))
            Equivalence     (tblk,EMB$L_DV_REGSAV(21))
            Equivalence     (rblk,EMB$L_DV_REGSAV(22))
            Equivalence     (habx,EMB$L_DV_REGSAV(23))
            Equivalence     (teot,EMB$L_DV_REGSAV(24))


C
C           Define driver offsets for PROTOCOL STATISTICS
C
            Character*11    offset(0:18)
            Data    offset(0)       /'LCB$W_TNAK*'/
            Data    offset(1)       /'LCB$W_RNAK*'/
            Data    offset(2)       /'LCB$W_TENQ*'/
            Data    offset(3)       /'LCB$W_RENQ*'/
            Data    offset(4)       /'LCB$W_TRVI*'/
            Data    offset(5)       /'LCB$W_RRVI*'/
            Data    offset(6)       /'LCB$W_RCNV*'/
            Data    offset(7)       /'LCB$W_CHAI*'/
            Data    offset(8)       /'LCB$W_GPOL*'/
            Data    offset(9)       /'LCB$W_XACK*'/
            Data    offset(10)      /'LCB$W_HABO*'/
            Data    offset(11)      /'LCB$W_DABO*'/
            Data    offset(12)      /'LCB$W_RTIM*'/
            Data    offset(13)      /'LCB$W_DISC*'/
            Data    offset(14)      /'LCB$W_HARD*'/
            Data    offset(15)      /'LCB$W_TBLK*'/
            Data    offset(16)      /'LCB$W_RBLK*'/
            Data    offset(17)      /'LCB$W_HABX*'/
            Data    offset(18)      /'LCB$W_TEOT*'/


C
C           Define descriptions for PROTOCOL STATISTICS
C
            Character*32    descrp(0:18)
            Data    descrp(0)       /'NAK''S TRANSMITTED = *'/
            Data    descrp(1)       /'NAK''S RECEIVED = *'/
            Data    descrp(2)       /'ENQ''S TRANSMITTED = *'/
            Data    descrp(3)       /'ENQ''S RECEIVED = *'/
            Data    descrp(4)       /'RVI''S TRANSMITTED = *'/
            Data    descrp(5)       /'RVI''S RECEIVED = *'/
            Data    descrp(6)       /'CONVERSATIONAL REPLIES IN = *'/
            Data    descrp(7)       /'CHAINED WRITES RECEIVED = *'/
            Data    descrp(8)       /'GENERAL POLLS RECEIVED = *'/
```

```
            Data    descrp(9)       /'INVALID ACK''S RECEIVED = *'/
            Data    descrp(10)      /'HOST ABORTED XMISSIONS = *'/
            Data    descrp(11)      /'DRIVER ABORTED XMISSIONS = *'/
            Data    descrp(12)      /'XMISSION RESPONSE TIMEOUTS = *'/
            Data    descrp(13)      /'DETECTED LINE DISCONNECTS = *'/
            Data    descrp(14)      /'DETECTED HARDWARE ERRORS = *'/
            Data    descrp(15)      /'USER BLOCKS TRANSMITTED = *'/
            Data    descrp(16)      /'USER BLOCKS RECEIVED = *'/
            Data    descrp(17)      /'AMBIGUOUS ACK''S SENT = *'/
            Data    descrp(18)      /'IMPLIED ACK''S SENT (EOT) = *'/


    C
    C       Contruct the report header
    C

            Call FRCTOF (lun)

            call dhead1 (lun,'UBA DUP11')

    C
    C       Decode and output the DUP11 registers
    C

            Call DUP11 (lun,parcsr,rxcsr,rxdbuf,txcsr,txdbuf)

    C
    C       Output PROTOCOL STATISTICAL INFORMATION for report
    C

            Call LINCHK (lun,3)

            Write (lun,5)
    5       Format (/' ','PROTOCOL STATISTICAL INFORMATION',/)


            Do 20 I=0,count

            Call LINCHK (lun,2)

            Field=LIB$EXTZV (0,16,stats(I))

            Write (lun,10) offset(I),stats(I),descrp(I),field
    10      Format (' ',T8,A<compressC (offset(I))>,T24,Z8.4,/,
            1 T40,A<compressC (descrp(I))>,I<compress4 (field)>,'.')


    20      Continue


    C
    C       Decode and output SOFTWARE INFORMATION for report
    C

            call linchk (lun,1)

            write(lun,25)
```

```
25      format(' ',:)

        if (emb$w_hd_entry .ne. 98) then

        call ucb$b_ertcnt (lun,emb$b_dv_ertcnt)

        call ucb$b_ertmax (lun,emb$b_dv_ertmax)
        endif

        call orb$l_owner (lun,emb$l_dv_ownuic)

        call ucb$l_char (lun,emb$l_dv_char)

        call ucb$w_sts (lun,emb$w_dv_sts)

        call ucb$l_opcnt (lun,emb$l_dv_opcnt)

        call ucb$w_errcnt (lun,emb$w_dv_errcnt)

        if (emb$w_hd_entry .ne. 98) then

        call linchk (lun,1)

        write(lun,25)

        call dup3271_qio (lun,emb$w_dv_func)

        call irp$w_bcnt (lun,emb$w_dv_bcnt)

        call irp$w_boff (lun,emb$w_dv_boff)

        call irp$l_pid (lun,emb$l_dv_rqpid)

        call irp$q_iosb (lun,emb$l_dv_iosb1)
        endif

        Return
        END
```

PROGRAM SECTIONS

	Name	Bytes	Attributes
0	$CODE	598	PIC CON REL LCL SHR EXE RD NOWRT LONG
1	$PDATA	110	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2	$LOCAL	1136	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3	EMB	512	PIC OVR REL GBL SHR NOEXE RD WRT LONG
	Total Space Allocated	2356	

ENTRY POINTS

Address	Type	Name
0-00000000		DUP3271

VARIABLES

Address	Type	Name	Address	Type	Name
3-00000086	I*4	CHAI	3-00000096	I*4	DABO
3-0000009E	I*4	DISC	3-0000001C	L*1	EMB$B_DV_CLASS
3-00000010	L*1	EMB$B_DV_ERTCNT	3-00000011	L*1	EMB$B_DV_ERTMAX
3-0000003E	L*1	EMB$B_DV_NAMLNG	3-0000003A	L*1	EMB$B_DV_SLAVE
3-0000001D	L*1	EMB$B_DV_TYPE	3-00000036	I*4	EMB$L_DV_CHAR
3-00000012	I*4	EMB$L_DV_IOSB1	3-00000016	I*4	EMB$L_DV_IOSB2
3-00000026	I*4	EMB$L_DV_MEDIA	3-0000004E	I*4	EMB$L_DV_NUMREG
3-0000002E	I*4	EMB$L_DV_OPCNT	3-00000032	I*4	EMB$L_DV_OWNUIC
3-0000001E	I*4	EMB$L_DV_RQPID	3-00000000	I*4	EMB$L_HD_SID
3-0000003F	CHAR	EMB$T_DV_NAME	3-00000024	I*2	EMB$W_DV_BCNT
3-00000022	I*2	EMB$W_DV_BOFF	3-0000002C	I*2	EMB$W_DV_ERRCNT
3-0000003C	I*2	EMB$W_DV_FUNC	3-0000001A	I*2	EMB$W_DV_STS
3-0000002A	I*2	EMB$W_DV_UNIT	3-00000004	I*2	EMB$W_HD_ENTRY
3-0000000E	I*2	EMB$W_HD_ERRSEQ	2-00000334	I*4	FIELD
3-0000008A	I*4	GPOL	3-00000092	I*4	HABO
3-000000AE	I*4	HABX	3-000000A2	I*4	HARD
2-00000338	I*4	I	AP-00000004@	L*1	LUN
3-00000056	I*4	PARCSR	3-000000AA	I*4	RBLK
3-00000082	I*4	RCNV	3-00000076	I*4	RENQ
3-0000006E	I*4	RNAK	3-0000007E	I*4	RRVI
3-0000009A	I*4	RTIM	3-0000005A	I*4	RXCSR
3-0000005E	I*4	RXDBUF	3-000000A6	I*4	TBLK
3-00000072	I*4	TENQ	3-000000B2	I*4	TEOT
3-0000006A	I*4	TNAK	3-0000007A	I*4	TRVI
3-00000062	I*4	TXCSR	3-00000066	I*4	TXDBUF
3-0000008E	I*4	XACK			

ARRAYS

Address	Type	Name	Bytes	Dimensions
2-000000D1	CHAR	DESCRP	608	(0:18)
3-00000000	L*1	EMB	512	(0:511)
3-00000052	I*4	EMB$L_DV_REGSAV	420	(0:104)
3-00000006	I*4	EMB$Q_HD_TIME	8	(2)
2-00000000	CHAR	OFFSET	209	(0:18)
3-0000006A	I*4	STATS	76	(0:18)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label
1-0000001E	5'	1-00000046	10'	**	20	1-00000069	25'

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name	Type	Name	Type	Name
I*4	COMPRESS4	I*4	COMPRESSC		DHEAD1		DUP11		DUP3271_QIO		FRCTOF
	IRP$L_PID		IRP$Q_IOSB		IRP$W_BCNT		IRP$W_BOFF	I*4	LIB$EXTZV		LINCHK
	ORB$L_OWNER		UCB$B_ERTCNT		UCB$B_ERTMAX		UCB$L_CHAR		UCB$L_OPCNT		UCB$W_ERRCNT
	UCB$W_STS										

```fortran


      subroutine dup3271_qio (lun,emb$w_dv_func)


      include 'src$:qiocommon.for /nolist'


      byte            lun
      integer*2       emb$w_dv_func
      integer*4       qiocode(0:1,0:63)



      if (qiocode(0,0) .eq. 0) then
      Qiocode(1,11) = %loc(IO$_WRITEPBLK)
      Qiocode(1,12) = %loc(IO$_READPBLK)
      Qiocode(1,13) = %loc(IO$_RDSTATS)
      Qiocode(1,26) = %loc(IO$_SETCHAR)
      Qiocode(1,29) = %loc(IO$_DIAGNOSE)
      Qiocode(1,32) = %loc(IO$_WRITELBLK)
      Qiocode(1,33) = %loc(IO$_READLBLK)
      Qiocode(1,48) = %loc(IO$_WRITEVBLK)
      Qiocode(1,49) = %loc(IO$_READVBLK)
      do 10,i = 0,63
      qiocode(0,i) = 33
      if (qiocode(1,i) .eq. 0) then
      qiocode(1,i) = %loc(qio_string)
      endif
10    continue
      endif
      call irp$w_func (lun,emb$w_dv_func,
     1 qiocode(0,lib$extzv(0,6,emb$w_dv_func)))
      return
```

```
0321            end


PROGRAM SECTIONS

    Name                                Bytes   Attributes

  0 $CODE                                 159   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                1962

ENTRY POINTS

    Address  Type  Name

  0-00000000       DUP3271_QIO

VARIABLES

    Address  Type  Name                                Address  Type  Name

 AP-00000008@ I*2  EMB$W_DV_FUNC                     2-00000200  I*4  I
  3-00000442  CHAR IO$_ABORT                         3-0000034D  CHAR IO$_ACCESS
  3-000003C2  CHAR IO$_ACPCONTROL                    3-000004B3  CHAR IO$_AVAILABLE
  3-00000297  CHAR IO$_CLEAN                         3-00000369  CHAR IO$_CREATE
  3-00000385  CHAR IO$_DEACCESS                      3-00000393  CHAR IO$_DELETE
  3-0000026D  CHAR IO$_DIAGNOSE                      3-00000065  CHAR IO$_DRVCLR
  3-000004CB  CHAR IO$_DSE                           3-000000A9  CHAR IO$_ERASETAPE
  3-00000276  CHAR IO$_FORMAT                        3-00000071  CHAR IO$_INITIALIZE
  3-00000014  CHAR IO$_LOADMCODE                     3-000003A1  CHAR IO$_MODIFY
  3-000003E2  CHAR IO$_MOUNT                         3-00000000  CHAR IO$_NOP
  3-0000009D  CHAR IO$_OFFSET                        3-000000EB  CHAR IO$_PACKACK
  3-000000E0  CHAR IO$_QSTOP                         3-000003EF  CHAR IO$_RDSTATS
  3-00000421  CHAR IO$_READCSR                       3-00000169  CHAR IO$_READHEAD
  3-000002B6  CHAR IO$_READLBLK                      3-0000013F  CHAR IO$_READPBLK
  3-00000200  CHAR IO$_READPRESET                    3-00000195  CHAR IO$_READTRACKD
  3-0000033A  CHAR IO$_READVBLK                      3-0000045A  CHAR IO$_READWTHBUF
  3-00000484  CHAR IO$_READWTHXBUF                   3-0000004D  CHAR IO$_RECAL
  3-0000007C  CHAR IO$_RELEASE                       3-000001AB  CHAR IO$_REREADN
  3-000001B8  CHAR IO$_REREADP                       3-000000CA  CHAR IO$_RETCENTER
  3-000002E6  CHAR IO$_REWIND                        3-000002C9  CHAR IO$_REWINDOFF
  3-000000FC  CHAR IO$_SEARCH                        3-00000024  CHAR IO$_SEEK
  3-00000231  CHAR IO$_SENSECHAR                     3-00000309  CHAR IO$_SENSEMODE
  3-0000021D  CHAR IO$_SETCHAR                       3-000003B8  CHAR IO$_SETCLOCK
  3-00000088  CHAR IO$_SETCLOCKP                     3-000002DD  CHAR IO$_SETMODE
  3-000002ED  CHAR IO$_SKIPFILE                      3-000002FA  CHAR IO$_SKIPRECORD
  3-00000029  CHAR IO$_SPACEFILE                     3-0000010E  CHAR IO$_SPACERECORD
  3-000003D7  CHAR IO$_STARTDATA                     3-000000B4  CHAR IO$_STARTDATAP
  3-00000037  CHAR IO$_STARTMPROC                    3-0000020F  CHAR IO$_STARTSPNDL
  3-00000059  CHAR IO$_STOP                          3-0000000D  CHAR IO$_UNLOAD
```

```
  3-0000046B  CHAR IO$_WRITEBUFNCRC                3-0000011E  CHAR IO$_WRITECHECK
  3-000001E4  CHAR IO$_WRITECHECKH                 3-000003FF  CHAR IO$_WRITECSR
  3-00000153  CHAR IO$_WRITEHEAD                   3-000002A2  CHAR IO$_WRITELBLK
  3-00000247  CHAR IO$_WRITEMARK                   3-00000314  CHAR IO$_WRITEOF
  3-0000012A  CHAR IO$_WRITEPBLK                   3-000001C9  CHAR IO$_WRITERET
  3-0000017E  CHAR IO$_WRITETRACKD                 3-00000326  CHAR IO$_WRITEVBLK
  3-00000448  CHAR IO$_WRITEWTHBUF                 3-00000257  CHAR IO$_WRTTMKR
 AP-00000004@ L*1  LUN                             3-000004A1  CHAR QIO_STRING

ARRAYS

    Address  Type  Name                 Bytes  Dimensions

  2-00000000  I*4  QIOCODE                512  (0:1, 0:63)

LABELS

    Address   Label

      **      10

FUNCTIONS AND SUBROUTINES REFERENCED

  Type  Name              Type  Name

        IRP$W_FUNC         I*4  LIB$EXTZV

COMMAND QUALIFIERS

  FORTRAN /LIS=LIS$:DUP3271/OBJ=OBJ$:DUP3271 MSRC$:DUP3271

  /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:            4.83 seconds
  Elapsed Time:        13.61 seconds
  Page Faults:         189
  Dynamic Memory:      190 pages
```

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LIS

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LIS

CALCMAP
LIS

DUP3271
LIS

CRYPTK
LIS

DQDISKS
LIS

DUP11
LIS