

[illegible][illegible]

```

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
LLLLLLLLLLLLLL  IIIIII               SSSSSSSS
LLLLLLLLLLLLLL  IIIIII               SSSSSSSS

```

[illegible]

H 11
16-Sep-1984 00:20:11
5-Sep-1984 13:53:34

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

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```
0001 C
0002 C Version: 'V04-000'
0003 C
0004 C*****
0005 C*
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0023 C*
0024 C*
0025 C*****
0026 C
0027
0028 c Author Brian Porter Creation Date 03-NOV-1981
0029
0030 c++
0031 c Functional description:
0032 c
0033 c This a collection of routines that are called to output
0034 c software information in device error entries.
0035 c
0036 c Modified by:
0037 c
0038 c V03-003 SAR0214 Sharon A. Reynolds, 28-Mar-1984
0039 c Changed the name/output label of UCB$L_OWNUIC to
0040 c ORB$L_OWNER.
0041 c
0042 c v03-002 BP0003 Brian Porter, 20-AUG-1982
0043 c Minor edit.
0044 c
0045 c v03-001 BP0002 Brian Porter, 01-MAR-1982
0046 c Added more routines.
0047 c**
0048 c--
0049
0050
0051
0052
0053 subroutine ucb$b_ertcnt (lun,emb$b_dv_ertcnt)
0054
0055
0056
0057
```

UCB\$B_ERTCNT

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

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```
0058      byte      lun
0059
0060      byte      emb$b_dv_ertcnt
0061
0062      integer*4   remaining_retries
0063
0064      integer*4   compress4
0065
0066
0067
0068      remaining_retries = lib$extzv(0,8,emb$b_dv_ertcnt)
0069
0070      call linchk (lun,2)
0071
0072      write(lun,10) emb$b_dv_ertcnt,remaining_retries
0073 10      format('  ',t8,'UCB$B_ERTCNT',t30,z2.2,'-
0074      1 t40,i<compress4 (remaining_retries)>',' . RETRIES REMAINING')
0075
0076      return
0077
0078      end
```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	96	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	67	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	40	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	203	

ENTRY POINTS

Address	Type	Name
0-00000000		UCB\$B_ERTCNT

VARIABLES

Address	Type	Name	Address	Type	Name
AP-00000008a	L*1	EMB\$B DV ERTCNT	AP-00000004a	L*1	LUN
2-00000000	I*4	REMAINING_RETRIES			

UCB\$B_ERTCNT

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LABELS

Address	Label
1-0000000C	10'

FUNCTIONS AND SUBROUTINES REFERENCED

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

UCBSB_ERTMAX

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

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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	96	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	67	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	40	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	203	

ENTRY POINTS

Address	Type	Name
0-00000000		UCBSB_ERTMAX

VARIABLES

Address	Type	Name	Address	Type	Name
AP-00000008a	L*1	EMBSB_DV_ERTMAX	AP-00000004a	L*1	LUN
2-00000000	I*4	MAXIMUM_RETRIES			

LABELS

Address	Label
1-0000000C	10'

FUNCTIONS AND SUBROUTINES REFERENCED

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

0001
0002
0003
0004
0005
0006
0007
0008
0009
0010
0011
0012
0013
0014
0015
0016
0017
0018
0019
0020
0021
0022
0023
0024
0025
0026
0027
0028
0029
0030
0031
0032
0033

subroutine ORB\$\$_OWNER (lun,emb\$_dv_ownuic)

byte lun

integer*4 emb\$_dv_ownuic

integer*4 group

integer*4 member

group = lib\$extzv (16,8,emb\$_dv_ownuic)

member = lib\$extzv (0,8,emb\$_dv_ownuic)

call linchk (lun,2)

10 write(lun,10) emb\$_dv_ownuic,group,member
format('i,t8,'ORB\$\$_OWNER',t24,z8:8,/,
1 t40,'OWNER UIC ['',o3.3,'',',o3.3,'']')

return

end

ORB\$\$_OWNER

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

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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	109	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	68	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	52	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	229	

ENTRY POINTS

Address	Type	Name
0-00000000		ORB\$\$_OWNER

VARIABLES

Address	Type	Name	Address	Type	Name
AP-00000008a	I*4	EMB\$\$_DV_OWNUIC	2-00000000	I*4	GROUP
AP-00000004a	L*1	LUN	2-00000004	I*4	MEMBER

LABELS

Address	Label
1-00000010	10'

FUNCTIONS AND SUBROUTINES REFERENCED

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


```
0001
0002
0003
0004
0005      subroutine ucb$l_opcnt (lun,emb$l_dv_opcnt)
0006
0007
0008
0009
0010      byte          lun
0011
0012      integer*4      emb$l_dv_opcnt
0013
0014      integer*4      compress4
0015
0016
0017
0018
0019      call linchk (lun,2)
0020
0021      write(lun,10) (emb$l_dv_opcnt,i = 1,2)
0022 10      format('i,t8,'UCB$L_OPCNT',t24,z8.8,/,
0023           1 t40,i<compress4 (emb$l_dv_opcnt)>,>17h. QIO'S THIS UNIT)
0024
0025      return
0026
0027      end
```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	97	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	56	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	28	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	181	

ENTRY POINTS

Address	Type	Name
0-00000000		UCB\$L_OPCNT

VARIABLES

Address	Type	Name	Address	Type	Name
2-00000004	I*4	EMB\$L_DV_OPCNT	2-00000000	I*4	I
AP-00000004	L*1	LUN			

UCB\$\$_OPCNT

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LABELS

Address	Label
1-00000004	10'

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
I*4	COMPRESS4		LINCHK

IRP
PRO
0
1
2
ENT
0
VAR
AP
2
LAB
1
FUN
T

subroutine ucb\$w_errcnt (lun,emb\$w_dv_errcnt)

byte lun

integer*2 emb\$w_dv_errcnt

integer*4 errors_this_unit

integer*4 compress4

errors_this_unit = lib\$extzv (0,16,emb\$w_dv_errcnt)

call linchk (lun,2)

write(lun,10) emb\$w_dv_errcnt,errors_this_unit

format(' ',t8,'UCB\$W_ERRCNT',t28,z4.4,/,
1 t40,i<compress4 (errors_this_unit)>,'. ERRORS THIS UNIT')

return

end

10

UCBSW_ERRCNT

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DISK\$VMSMASTER:[ERF.SRC]DTAILS.FOR;1 Page 11

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	96	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	66	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	40	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	202	

ENTRY POINTS

Address	Type	Name
0-00000000		UCBSW_ERRCNT

VARIABLES

Address	Type	Name	Address	Type	Name
AP-00000008a	I*2	EMBSW_DV_ERRCNT	2-00000000	I*4	ERRORS_THIS_UNIT
AP-00000004a	L*1	LUN			

LABELS

Address	Label
1-0000000C	10'

FUNCTIONS AND SUBROUTINES REFERENCED

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

0001
0002
0003
0004
0005
0006
0007
0008
0009
0010
0011
0012
0013
0014
0015
0016
0017
0018
0019
0020
0021
0022
0023
0024
0025
0026
0027
0028
0029
0030
0031
0032
0033
0034
0035
0036
0037
0038
0039
0040
0041
0042
0043
0044
0045
0046
0047
0048
0049
0050
0051
0052
0053
0054
0055
0056
0057

```
subroutine ucb$l_char (lun,emb$l_dv_char)
```

```
byte          lun
```

```
integer*4     emb$l_dv_char
```

```
character*33  v1device_characteristics(0:7)
```

```
data v1device_characteristics(0) /'RECORD ORIENTED*'/
```

```
data v1device_characteristics(1) /'CARRIAGE CONTROL*'/
```

```
data v1device_characteristics(2) /'TERMINAL*'/
```

```
data v1device_characteristics(3) /'DIRECTORY STRUCTURED*'/
```

```
data v1device_characteristics(4) /'SINGLE DIRECTORY*'/
```

```
data v1device_characteristics(5) /'""SEQUENTIAL BLOCK"" ORIENTED*'/
```

```
data v1device_characteristics(6) /'SPOOLED*'/
```

```
data v1device_characteristics(7) /'OPERATOR*'/
```

```
character*22  v2device_characteristics(13:31)
```

```
data v2device_characteristics(13) /'NETWORK*'/
```

```
data v2device_characteristics(14) /'FILE ORIENTED*'/
```

```
data v2device_characteristics(15) /'DUAL ACCESS*'/
```

```
data v2device_characteristics(16) /'SHARABLE*'/
```

```
data v2device_characteristics(17) /'GEN*'/
```

```
data v2device_characteristics(18) /'AVAILABLE*'/
```

```
data v2device_characteristics(19) /'MOUNTED*'/
```

```
data v2device_characteristics(20) /'MAILBOX*'/
```

```
data v2device_characteristics(21) /'""MARKED"" FOR DISMOUNT*'/
```

```
data v2device_characteristics(22) /'ERROR LOGGING*'/
```

```
data v2device_characteristics(23) /'ALLOCATED*'/
```

```
data v2device_characteristics(24) /'FOREIGN*'/
```


UCB\$\$_CHAR

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DISK\$VMSMASTER:[ERF.SRC]DTAILS.FOR;1 Page 13

```
0058      data      v2device_characteristics(25) /'SOFTWARE 'WRITE LOCK'*'/
0059
0060      data      v2device_characteristics(26) /'CAPABLE OF INPUT*'/
0061
0062      data      v2device_characteristics(27) /'CAPABLE OF OUTPUT*'/
0063
0064      data      v2device_characteristics(28) /'RANDOM ACCESS*'/
0065
0066      data      v2device_characteristics(29) /'REAL TIME*'/
0067
0068      data      v2device_characteristics(30) /'DATA CHECK, READS*'/
0069
0070      data      v2device_characteristics(31) /'DATA CHECK, WRITES*'/
0071
0072
0073
0074      call linchk (lun,1)
0075
0076      write(lun,10) emb$_dv_char
0077 10      format(' ',t8,'UCB$_CHAR',t24,z8.8)
0078
0079      call output (lun,emb$_dv_char,v1device_characteristics,0,0,6,'0')
0080
0081      call output (lun,emb$_dv_char,v2device_characteristics,
0082 1 13,13,31,'0')
0083
0084      return
0085
0086      end
```

IRP

LAB

1

FUN

T

UCBSL_CHAR

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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	93	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	45	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	832	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	970	

ENTRY POINTS

Address	Type	Name
0-00000000		UCBSL_CHAR

VARIABLES

Address	Type	Name	Address	Type	Name
AP-00000008a	I*4	EMBSL_DV_CHAR	AP-00000004a	L*1	LUN

ARRAYS

Address	Type	Name	Bytes	Dimensions
2-00000000	CHAR	V1DEVICE_CHARACTERISTICS	264	(0:7)
2-00000108	CHAR	V2DEVICE_CHARACTERISTICS	418	(13:31)

LABELS

Address	Label
1-00000016	10'

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
	LINCHK		OUTPUT


```

0001
0002
0003
0004
0005      subroutine ucb$w_sts (lun,emb$w_dv_sts)
0006
0007
0008
0009
0010      byte          lun
0011
0012      integer*2      emb$w_dv_sts
0013
0014      character*26    v1device_status(0:12)
0015
0016      data    v1device_status(0)      /'TIMEOUT ENABLED*'/
0017
0018      data    v1device_status(1)      /'INTERRUPT EXPECTED*'/
0019
0020      data    v1device_status(2)      /'ERROR LOGGING IN-PROGRESS*'/
0021
0022      data    v1device_status(3)      /'CANCEL I/O*'/
0023
0024      data    v1device_status(4)      /'ONLINE*'/
0025
0026      data    v1device_status(5)      /'POWER FAILED WHILE BUSY*'/
0027
0028      data    v1device_status(6)      /'TIMED OUT*'/
0029
0030      data    v1device_status(7)      /'RECEIVER INTERRUPT*'/
0031
0032      data    v1device_status(8)      /'BUSY*'/
0033
0034      data    v1device_status(9)      /'MOUNT IN-PROGRESS*'/
0035
0036      data    v1device_status(10)     /'DEALLOCATE AT DISMOUNT*'/
0037
0038      data    v1device_status(11)     /'SOFTWARE VALID*'/
0039
0040      data    v1device_status(12)     /'UNLOAD AT DISMOUNT*'/
0041
0042      character*33    v2device_status(14:15)
0043
0044      data    v2device_status(14)     /''MOUNT VERIFICATION'' IN-PROGRESS*'/
0045
0046      data    v2device_status(15)     /'WRONG VOLUME DETECTED*'/
0047
0048
0049
0050      call linchk (lun,1)
0051
0052      write(lun,10) emb$w_dv_sts
0053      format(' ',t8,'UCB$W_STS',t28,z4.4)
0054
0055      call output (lun,emb$w_dv_sts,v1device_status,0,0,12,'0')
0056
0057      call output (lun,emb$w_dv_sts,v2device_status,14,14,15,'0')

```

10

UCB\$W_STS

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0058
0059 return
0060
0061 end

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	93	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	44	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	552	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	689	

ENTRY POINTS

Address	Type	Name
0-00000000		UCB\$W_STS

VARIABLES

Address	Type	Name	Address	Type	Name
AP-00000008a	I*2	EMB\$W_DV_STS	AP-00000004a	L*1	LUN

ARRAYS

Address	Type	Name	Bytes	Dimensions
2-00000000	CHAR	V1DEVICE_STATUS	338	(0:12)
2-00000152	CHAR	V2DEVICE_STATUS	66	(14:15)

LABELS

Address	Label
1-00000016	10'

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
	LINCHK		OUTPUT

0001
0002
0003
0004
0005
0006
0007
0008
0009
0010
0011
0012
0013
0014
0015
0016
0017
0018
0019
0020
0021
0022
0023
0024
0025
0026
0027
0028
0029
0030
0031
0032
0033
0034
0035
0036
0037
0038
0039
0040
0041
0042

subroutine ucb\$l_media (lun,emb\$l_dv_media)

byte lun

integer*4 emb\$l_dv_media

integer*4 cylinder

integer*4 track

integer*4 sector

integer*4 compress4

cylinder = lib\$extzv (16,16,emb\$l_dv_media)

track = lib\$extzv (8,8,emb\$l_dv_media)

sector = lib\$extzv (0,8,emb\$l_dv_media)

call linchk (lun,5)

write(lun,10) emb\$l_dv_media,cylinder,track,sector

format(' ',t8,'UCB\$[MEDIA',t24,z8.8,/,

1 t40,'FUNCTION START ADDRESS',/,

1 t40,' - CYLINDER #',i<compress4 (cylinder)>,'..',/,

1 t40,' - TRACK #',i<compress4 (track)>,'..',/,

1 t40,' - SECTOR #',i<compress4 (sector)>,'..')

return

end

10

UCB\$\$_MEDIA

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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	178	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	146	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	96	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	420	

ENTRY POINTS

Address	Type	Name
0-00000000		UCB\$\$_MEDIA

VARIABLES

Address	Type	Name	Address	Type	Name
2-00000000	I*4	CYLINDER	AP-00000008a	I*4	EMB\$\$_DV_MEDIA
AP-00000004a	L*1	LUN	2-00000008	I*4	SECTOR
2-00000004	I*4	TRACK			

LABELS

Address	Label
1-00000010	10'

FUNCTIONS AND SUBROUTINES REFERENCED

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

0001
0002
0003
0004
0005
0006
0007
0008
0009
0010
0011
0012
0013
0014
0015
0016
0017
0018
0019
0020
0021
0022
0023
0024
0025
0026
0027
0028
0029
0030
0031
0032
0033
0034
0035
0036
0037
0038
0039
0040
0041
0042
0043
0044
0045
0046
0047
0048
0049
0050
0051
0052
0053
0054
0055
0056
0057

```
subroutine irp$w_func (lun,emb$w_dv_func,qio_string)

byte          lun
integer*2     emb$w_dv_func
character*(*)  qio_string
integer*4     device_dependent_modifiers
character*15   vldevice_independent_modifiers(14:15)
data          vldevice_independent_modifiers(14)
1 /'IOSM_DATACHECK*'/
data          vldevice_independent_modifiers(15)
1 /'IOSM_INHRETRY*'/
integer*4     compressc

call linchk (lun,2)

10 write(lun,10) emb$w_dv_func,qio_string
   format(' ',t8,'IRP$W_FUNC',t28,z4.4,/,
1 t40,a<compressc (qio_string)>)

entry qio_function_modifiers (lun,emb$w_dv_func)

device_dependent_modifiers = lib$extzv(6,7,emb$w_dv_func)
if (device_dependent_modifiers .ne. 0) then
call linchk (lun,1)

15 write(lun,15)
   format(' ',t40,'DEVICE DEPENDENT MODIFIER(S)')
endif

call output (lun,emb$w_dv_func,vldevice_independent_modifiers,
1 14,14,15,'0')

return
```

IRPSW_FUNC

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0058 end

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	182	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	94	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	168	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	444	

ENTRY POINTS

Address	Type	Name	Address	Type	Name
0-00000000		IRPSW_FUNC	0-00000055		QIO_FUNCTION_MODIFIERS

VARIABLES

Address	Type	Name	Address	Type	Name
2-00000020	I*4	DEVICE_DEPENDENT_MODIFIERS	AP-00000008a	I*2	EMBSW_DV_FUNC
AP-00000004a	L*1	LUN	2-00000024a	CHAR	QIO_STRING

ARRAYS

Address	Type	Name	Bytes	Dimensions
2-00000000	CHAR	V1DEVICE_INDEPENDENT_MODIFIERS	30	(14:15)

LABELS

Address	Label	Address	Label
1-0000001A	10'	1-0000003A	15'

FUNCTIONS AND SUBROUTINES REFERENCED

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


```
0001
0002
0003
0004
0005      subroutine irp$w_bcmt (lun,emb$w_dv_bcmt)
0006
0007
0008
0009
0010      byte          lun
0011
0012      integer*2      emb$w_dv_bcmt
0013
0014      integer*4      transfer_byte_count
0015
0016      integer*4      compress4
0017
0018
0019
0020
0021      transfer_byte_count = lib$extzv(0,16,emb$w_dv_bcmt)
0022
0023      call linchk (lun,2)
0024
0025      write(lun,10) emb$w_dv_bcmt,transfer_byte_count
0026      format('1 t8,IRP$W_BCMT',t28,z4.4,7,
0027      1 t40,'TRANSFER SIZE-',i<compress4 (transfer_byte_count)>,'. BYTE(S)')
0028
0029      return
0030
0031      end
```

10

IRP\$W_BCNT

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5-Sep-1984 13:53:34

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

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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	96	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	71	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	40	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	207	

ENTRY POINTS

Address	Type	Name
0-00000000		IRP\$W_BCNT

VARIABLES

Address	Type	Name	Address	Type	Name
AP-00000008a	I*2	EMB\$W_DV_BCNT	AP-00000004a	L*1	LUN
2-00000000	I*4	TRANSFER_BYTE_COUNT			

LABELS

Address	Label
1-0000000C	10'

FUNCTIONS AND SUBROUTINES REFERENCED

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

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VAR

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```
0001
0002
0003      subroutine irp$w_boff (lun,emb$w_dv_boff)
0004
0005
0006
0007      byte          lun
0008
0009      integer*2      emb$w_dv_boff
0010
0011      integer*4      page_byte_offset
0012
0013      integer*4      compress4
0014
0015
0016
0017
0018      page_byte_offset = lib$extzv (0,16,emb$w_dv_boff)
0019
0020      call linchk (lun,2)
0021
0022      if (page_byte_offset .eq. 0) then
0023
0024      10      write(lun,10) emb$w_dv_boff
0025              format('i,t8,'IRP$w_BOFF',t28,z4.4,/,
0026              1 t40,'TRANSFER PAGE-ALIGNED')
0027      else
0028
0029      15      write(lun,15) emb$w_dv_boff,page_byte_offset
0030              format('i,t8,'IRP$w_BOFF',t28,z4.4,/,
0031              1 t40,i<compress4 (page_byte_offset)>,'. BYTE PAGE OFFSET')
0032      endif
0033
0034      return
0035
0036      end
```


Page 24

Name	Bytes	Attributes
0 \$CODE	136	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	113	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	40	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	289	

Address	Type	Name
0-00000000		IRPSW_BOFF

Address	Type	Name	Address	Type	Name
AP-00000008a	1*2	EMBSW_DV_BOFF	AP-00000004a	L*1	LUN
2-00000000	1*4	PAGE_BYTE_OFFSET			

Address	Label	Address	Label
1-0000000C	10'	1-0000003D	15'

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

[illegible]

```
0001
0002
0003
0004
0005      subroutine irp$l_pid (lun,emb$l_dv_rqpid)
0006
0007
0008
0009
0010      byte          lun
0011
0012      integer*4      emb$l_dv_rqpid
0013
0014
0015
0016
0017      call linchk (lun,2)
0018
0019      write(lun,10) emb$l_dv_rqpid
0020      format(' ',t8,'IRP$L_PID',t24,z8.8,/,
0021      1 t40,'REQUESTOR 'PID')
0022
0023      return
0024
0025      end
```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	56	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	46	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	12	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	114	

ENTRY POINTS

Address	Type	Name
0-00000000		IRP\$L_PID

VARIABLES

Address	Type	Name	Address	Type	Name
AP-00000008a	I*4	EMB\$L_DV_RQPID	AP-00000004a	L*1	LUN

IRPSL_PID

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5-Sep-1984 13:53:34

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DISK\$VMSMASTER:[ERF.SRC]DTAILS.FOR;1 Page 26

LABELS

Address	Label
1-00000004	10'

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name
	LINCHK

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16-Sep-1984 00:20:11
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DISK\$VMSMASTER:[ERF.SRC]DTAILS.FOR;1 Page 27

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subroutine irp\$q_iosb (lun,emb\$l_dv_iosb)

byte lun

integer*4 emb\$l_dv_iosb(2)

integer*4 bytes_transferred

integer*4 compress4

bytes_transferred = lib\$extzv (16,16,emb\$l_dv_iosb(1))

call linchk (lun,2)

write(lun,10) (emb\$l_dv_iosb(i),i = 1,2),bytes_transferred

format(' ',t8,'IRP\$q-IOsb',t24,z8.8,/,
1 t24,z8.8,t40,'IOsb',i<compress4 (bytes_transferred)>,
1 '. BYTE(S) TRANSFERRED')

return

end

10

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IRP\$Q_IOSB

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5-Sep-1984 13:53:34VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[ERF.SRC]DTAILS.FOR;1 Page 28

**F

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	122	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	76	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	64	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	262	

ENTRY POINTS

Address	Type	Name
0-00000000		IRP\$Q_IOSB

VARIABLES

Address	Type	Name	Address	Type	Name
2-00000000	I*4	BYTES_TRANSFERED	2-00000004	I*4	I
AP-00000004	L*1	LUN			

ARRAYS

Address	Type	Name	Bytes	Dimensions
AP-00000008	I*4	EMB\$\$_DV_IOSB	8	(2)

LABELS

Address	Label
1-00000008	10'

FUNCTIONS AND SUBROUTINES REFERENCED

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

subroutine cdrp\$w_boff (lun,emb\$w_sp_boff)

byte lun

integer*2 emb\$w_sp_boff

integer*4 page_byte_offset

integer*4 compress4

page_byte_offset = lib\$extzv (0,16,emb\$w_sp_boff)

call linchk (lun,2)

if (page_byte_offset .eq. 0) then

10 write(lun,10) emb\$w_sp_boff
format('i,t8,'CDRP\$W_BOFF',t28,z4.4,/,
1 t40,'TRANSFER PAGE ALIGNED')
else

15 write(lun,15) emb\$w_sp_boff,page_byte_offset
format('i,t8,'CDRP\$W_BOFF',t28,z4.4,7,
1 t40,i<compress4 (page_byte_offset)>,'. BYTE PAGE OFFSET')
endif

return

end

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	136	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	115	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	40	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	291	

ENTRY POINTS

Address	Type	Name
0-00000000		CDRPSW_BOFF

VARIABLES

Address	Type	Name	Address	Type	Name
AP-00000008a	I*2	EMBSW_SP_BOFF	AP-00000004a	L*1	LUN
2-00000000	I*4	PAGE_BYTE_OFFSET			

LABELS

Address	Label	Address	Label
1-0000000C	10'	1-0000003E	15'

FUNCTIONS AND SUBROUTINES REFERENCED

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

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0001
0002
0003
0004      subroutine cdrp$l_bcmt (lun,emb$l_sp_bcmt)
0005
0006
0007
0008
0009      byte          lun
0010
0011      integer*4     emb$l_sp_bcmt
0012
0013      integer*4     compress4
0014
0015
0016
0017
0018      call linchk (lun,2)
0019
0020      write(lun,10) (emb$l_sp_bcmt,i = 0,1)
0021      format('i,t8,'CDRPS$L_BCNT',t24,z8.8,/,
0022      1 t40,'TRANSFER SIZE ',i<compress4 (emb$l_sp_bcmt)>>,'. BYTE(S)')
0023
0024      return
0025
0026      end
```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	96	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	64	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	28	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	188	

ENTRY POINTS

Address	Type	Name
0-00000000		CDRPS\$L_BCNT

VARIABLES

Address	Type	Name	Address	Type	Name	Address	Type	Name
2-00000004a	I*4	EMB\$L_SP_BCNT	2-00000000	I*4	I	AP-00000004a	L*1	LUN

CDRPSL_BCNT

LABELS

Address	Label
1-00000004	10'

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
I*4	COMPRESS4		LINCHK

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

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**F

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subroutine cdrp\$w_func (lun,emb\$w_sp_func,qio_string)

byte lun

integer*2 emb\$w_sp_func

character*(*) qio_string

integer*4 compressc

call linchk (lun,2)

10 write(lun,10) emb\$w_sp_func,qio_string
format(' ',t8,'CDRP\$W_FUNC',t28,z4.4,/,
1 t40,a<compressc (qio_string)>)

call qio_function_modifiers (lun,emb\$w_sp_func)

return

end

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5-Sep-1984 13:53:34

VAX-11 FORTRAN V3.4-56 Page 34
DISK\$VMSMASTER:[ERF.SRC]DTAILS.FOR:1

Name _____

Bytes

Attributes

0	\$CODE	115	PIC	CON	REL	LCL	SHR	EXE	RD	NOWRT	LONG
1	\$PDATA	37	PIC	CON	REL	LCL	SHR	NOEXE	RD	NOWRT	LONG
2	\$LOCAL	44	PIC	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	LONG

Total Space Allocated

196

[illegible]

0-00000000, CDRPSW_FUNC

[illegible]

Address	Type	Name
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Address	Type	Name
---------	------	------

AP-00000008a I*2 EMBSW_SP_FUNC AP-00000004a L*1 LUN 2-00000000a CHAR QIO_STRING

Address	Label
00000000	00000000
00000001	00000001
00000002	00000002
00000003	00000003
00000004	00000004
00000005	00000005
00000006	00000006
00000007	00000007
00000008	00000008
00000009	00000009
0000000A	0000000A
0000000B	0000000B
0000000C	0000000C
0000000D	0000000D
0000000E	0000000E
0000000F	0000000F
00000010	00000010
00000011	00000011
00000012	00000012
00000013	00000013
00000014	00000014
00000015	00000015
00000016	00000016
00000017	00000017
00000018	00000018
00000019	00000019
0000001A	0000001A
0000001B	0000001B
0000001C	0000001C
0000001D	0000001D
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0000001F	0000001F
00000020	00000020
00000021	00000021
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00000039	00000039
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00000044	00000044
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00000047	00000047
00000048	00000048
00000049	00000049
0000004A	0000004A
0000004B	0000004B
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0000004F	0000004F
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00000066	00000066
00000067	00000067
00000068	00000068
00000069	00000069
0000006A	0000006A
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00000070	00000070
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00000072	00000072
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1-000000004 10'

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name
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I-4 COMPRESSC

LINCHK

QIO_FUNCTION_MODIFIERS

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end

Address	Type	Name	Address	Type	Name
AP-00000008a	I*4	EMBSL_SP_RQPID	AP-00000004a	L*1	LUN

[illegible]

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

Address	Label
00000000	00000000
00000001	00000001
00000002	00000002
00000003	00000003
00000004	00000004
00000005	00000005
00000006	00000006
00000007	00000007
00000008	00000008
00000009	00000009
0000000A	0000000A
0000000B	0000000B
0000000C	0000000C
0000000D	0000000D
0000000E	0000000E
0000000F	0000000F
00000010	00000010
00000011	00000011
00000012	00000012
00000013	00000013
00000014	00000014
00000015	00000015
00000016	00000016
00000017	00000017
00000018	00000018
00000019	00000019
0000001A	0000001A
0000001B	0000001B
0000001C	0000001C
0000001D	0000001D
0000001E	0000001E
0000001F	0000001F
00000020	00000020
00000021	00000021
00000022	00000022
00000023	00000023
00000024	00000024
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00000027	00000027
00000028	00000028
00000029	00000029
0000002A	0000002A
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0000002C	0000002C
0000002D	0000002D
0000002E	0000002E
0000002F	0000002F
00000030	00000030
00000031	00000031
00000032	00000032
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0000003A	0000003A
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0000005C	0000005C
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00000068	00000068
00000069	00000069
0000006A	0000006A
0000006B	0000006B
0000006C	0000006C
0000006D	0000006D
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0000006F	0000006F
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00000072	00000072
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1-000000004 10'

FUNCTIONS AND SUBROUTINES REFERENCED

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LINCHK

DUP

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```

0001
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0003
0004
0005      subroutine cdrp$q_iosb (lun,emb$l_sp_iosb)
0006
0007
0008
0009
0010      byte          lun
0011
0012      integer*4      emb$l_sp_iosb(2)
0013
0014      integer*4      bytes_transferred
0015
0016      integer*4      compress4
0017
0018
0019
0020
0021      bytes_transferred = lib$extzv (16,16,emb$l_sp_iosb(1))
0022
0023      call linchk (lun,2)
0024
0025      write(lun,10) (emb$l_sp_iosb(i),i = 1,2),bytes_transferred
10      format(' ',t8,'CDRP$Q_IOSB',t24,z8.8,/,
0026      1 t24,z8.8,t40,'IOSB-',i<compress4 (bytes_transferred)>,
0027      1 '. BYTE(S) TRANSFERRED')
0028
0029
0030      return
0031
0032      end

```


PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	122	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	77	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	64	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
Total Space Allocated	263	

ENTRY POINTS

Address	Type	Name
0-00000000		CDRPSQ_IOSB

VARIABLES

Address	Type	Name	Address	Type	Name
2-00000000	I*4	BYTES_TRANSFERED	2-00000004	I*4	I
AP-00000004	L*1	LUN			

ARRAYS

Address	Type	Name	Bytes	Dimensions
AP-00000008	I*4	EMB\$\$_SP_IOSB	8	(2)

LABELS

Address	Label
1-00000008	10'

FUNCTIONS AND SUBROUTINES REFERENCED

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

PROGRAM SECTIONS

ENTRY POINTS

VARIABLES

Address	Type	Name	Address	Type	Name
2-00000004a	I*4	EMB\$L_SP_MEDIA	2-00000000	I*4	I
AP-00000004a	L*1	LUN			

[illegible]

H 14
16-Sep-1984 00:20:11
5-Sep-1984 13:53:34

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

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Address	Label
-00000004	10'

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name
I*4	COMPRESS4		LINCHK

COMMAND QUALIFIERS

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

```

/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:      8.21 seconds
Elapsed Time:  20.50 seconds
Page Faults:   147
Dynamic Memory: 170 pages
```


0147 AH-BT13A-SE
VAX/VMS V4.0

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