

```

EEEEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFF
EEEEEEEEEEEEEEEEEE RRRRRRRRRRRR FFFFFFFF
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[illegible]

LL	PPPPPPPP		AAAAAA	11	11	KK	KK	
LL	PPPPPPPP		AAAAAA	11	11	KK	KK	
LL	PP	PP	AA	AA	1111	1111	KK	KK
LL	PP	PP	AA	AA	1111	1111	KK	KK
LL	PP	PP	AA	AA	11	11	KK	KK
LL	PP	PP	AA	AA	11	11	KK	KK
LL	PPPPPPPP		AA	AA	11	11	KKKKKK	
LL	PPPPPPPP		AA	AA	11	11	KKKKKK	
LL	PP		AAAAAAAAAA	11	11	KK	KK	
LL	PP		AAAAAAAAAA	11	11	KK	KK	
LL	PP		AA	AA	11	11	KK	KK
LL	PP		AA	AA	11	11	KK	KK
LL	PP		AA	AA	11	11	KK	KK
LLLLLLLLLLLL	PP		AA	AA	111111	111111	KK	KK
LLLLLLLLLLLL	PP		AA	AA	111111	111111	KK	KK

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LL          IIIIII          SSSSSSSS
LL          IIIIII          SSSSSSSS
LL          II             SS
LL          II             SS
LL          II             SS
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LL          II             SSSSSS
LL          II             SSSSSS
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LL          II             S
LL          II             S
LL          II             S
LLLLLLLLLLLL IIIIII          SSSSSSSS
LLLLLLLLLLLL IIIIII          SSSSSSSS

```

[illegible]

v02-001 BP0001 Brian Porter, 29-JUN-1981
Removed call to UNUSED_BITS. Added call to LOGGER and


```

0058      C
0059      C**
0060      C--
0061
0062      INCLUDE 'SRC$:MSGHDR.FOR /NOLIST'
0121      INCLUDE 'SRC$:DEVERR.FOR /NOLIST'
0222
0223
0224      BYTE          LUN
0225      BYTE          MAINTENANCE(0:3)
0226
0227      INTEGER*4      FIELD
0228      INTEGER*4      COMPRESSC
0229      INTEGER*4      CNTRL_MAINT
0230      INTEGER*4      CNTRL_STATUS
0231      INTEGER*4      RDA
0232      INTEGER*4      UBAREG(2)
0233
0234      PARAMETER      TIMEOUT = 96
0235
0236      EQUIVALENCE     (CNTRL_MAINT,EMBSL_DV_REGS(0))
0237      EQUIVALENCE     (CNTRL_STATUS,EMBSL_DV_REGS(1))
0238      EQUIVALENCE     (RDA,EMBSL_DV_REGS(2))
0239      EQUIVALENCE     (MAINTENANCE,EMBSL_DV_REGS(3))
0240      EQUIVALENCE     (UBAREG,EMBSL_DV_REGS(4))
0241
0242      CHARACTER*7      V1CNTRL_MAINT(0:0)
0243      DATA            V1CNTRL_MAINT(0)/'GO BIT*'/
0244
0245
0246      CHARACTER*20      V2CNTRL_MAINT(6:11)
0247      DATA            V2CNTRL_MAINT(6)/'IN INTERRUPT ENABLE*'/
0248      DATA            V2CNTRL_MAINT(7)/'IN READY*'/
0249      DATA            V2CNTRL_MAINT(8)/'STEP UP*'/
0250      DATA            V2CNTRL_MAINT(9)/'ROM 0*'/
0251      DATA            V2CNTRL_MAINT(10)/'ROM 1*'/
0252      DATA            V2CNTRL_MAINT(11)/'ENABLE ARBITRATION*'/
0253
0254
0255      CHARACTER*11      V3CNTRL_MAINT(13:15)
0256      DATA            V3CNTRL_MAINT(13)/'CRAM WRITE*'/
0257      DATA            V3CNTRL_MAINT(14)/'RESET*'/
0258      DATA            V3CNTRL_MAINT(15)/'RUN*'/
0259
0260
0261      CHARACTER*21      V1CNTRL_STATUS(6:7)
0262      DATA            V1CNTRL_STATUS(6)/'OUT INTERRUPT ENABLE*'/
0263      DATA            V1CNTRL_STATUS(7)/'OUT READY*'/
0264
0265
0266      CHARACTER*31      FATAL_ERROR('340'0:'351'0)
0267      DATA            FATAL_ERROR('340'0)/'SLAVE POWER LOW*'/
0268      DATA            FATAL_ERROR('341'0)/'MASTER FIFO R/W ERROR*'/
0269      DATA            FATAL_ERROR('342'0)/'I/O BUS SACK TIMEOUT*'/
0270      DATA            FATAL_ERROR('343'0)/'MASTER INITIAL CONDITION ERROR*'/
0271      DATA            FATAL_ERROR('344'0)/'MASTER/SLAVE VERSION ERROR*'/
0272      DATA            FATAL_ERROR('345'0)/'SLAVE COLD START TIMEOUT*'/

```



```
0273 DATA FATAL_ERROR('346'0)/'FATAL SLAVE ERROR*'/
0274 DATA FATAL_ERROR('347'0)/'FAST PATH DATA ERRORS*'/
0275 DATA FATAL_ERROR('350'0)/'FIFO DATA ERROR*'/
0276 DATA FATAL_ERROR('351'0)/'ILLEGAL FATAL ERROR CODE*'/
0277
0278
0279 CHARACTER*33 START_ERROR('300'0:'327'0)
0280 DATA START_ERROR('300'0)/'NO ROOM FOR REQUEST*'/
0281 DATA START_ERROR('301'0)/'GO BIT SET WITH ''READY IN'' SET*'/
0282 DATA START_ERROR('302'0)/'MULTI-USER REQ IN DEDICATED MODE*'/
0283 DATA START_ERROR('303'0)/'ILLEGAL ''START ERROR'' CODE*'/
0284 DATA START_ERROR('304'0)/'DEDICATED REQ IN MULTI-USER MODE*'/
0285 DATA START_ERROR('305'0)/'ILLEGAL ''START ERROR'' CODE*'/
0286 DATA START_ERROR('306'0)/'START REQUEST WITHOUT INITIALIZE*'/
0287 DATA START_ERROR('307'0)/'ILLEGAL ''START ERROR'' CODE*'/
0288 DATA START_ERROR('310'0)/'MULTIPLE INITIALIZE COMMAND*'/
0289 DATA START_ERROR('311'0)/'ILLEGAL ''START ERROR'' CODE*'/
0290 DATA START_ERROR('312'0)/'STOP COMMAND AND USER NOT ACTIVE*'/
0291 DATA START_ERROR('313'0)/'ILLEGAL ''START ERROR'' CODE*'/
0292 DATA START_ERROR('314'0)/'ODD REQUEST DESCRIPTOR ARRAY ADDR*'/
0293 DATA START_ERROR('315'0)/'ILLEGAL ''START ERROR'' CODE*'/
0294 DATA START_ERROR('316'0)/'INITIALIZE WITH IMPROPER VERSION*'/
0295 DATA START_ERROR('317'0)/'ILLEGAL ''START ERROR'' CODE*'/
0296 DATA START_ERROR('320'0)/'DEVICE NOT PRESENT*'/
0297 DATA START_ERROR('321'0)/'ILLEGAL ''START ERROR'' CODE*'/
0298 DATA START_ERROR('322'0)/'ILLEGAL FUNCTION*'/
0299 DATA START_ERROR('323'0)/'ILLEGAL FUNCTION*'/
0300 DATA START_ERROR('324'0)/'REQUEST DESCRIPTOR ARRAY NXM*'/
0301 DATA START_ERROR('325'0)/'BUFFER/USER STATUS WORD ODD ADDR*'/
0302 DATA START_ERROR('326'0)/'DEVICE NOT PRESENT ON I/O BUS*'/
0303 DATA START_ERROR('327'0)/'XFER COUNT LESS THAN 256 WORDS*'/
0304
0305 CHARACTER*33 USER_ERROR('240'0:'261'0)
0306 DATA USER_ERROR('240'0)/'NON-FATAL ERROR COUNT EXCEEDED*'/
0307 DATA USER_ERROR('241'0)/'ERROR STATUS OVER-RUN*'/
0308 DATA USER_ERROR('242'0)/'RANDOM CHANNEL LIST NXM*'/
0309 DATA USER_ERROR('243'0)/'BUFFER OVER/UNDER -RUN*'/
0310 DATA USER_ERROR('244'0)/'BUFFER NXM*'/
0311 DATA USER_ERROR('245'0)/'USER STATUS WORD NXM*'/
0312 DATA USER_ERROR('246'0)/'USER STATUS WORD INV BUFR INDEX*'/
0313 DATA USER_ERROR('247'0)/'MASTER FIFO 7/8 FULL*'/
0314 DATA USER_ERROR('250'0)/'REQ TERM BY USER STAT WORD*'/
0315 DATA USER_ERROR('251'0)/'NO FIRMWARE FIFO BUFFER*'/
0316 DATA USER_ERROR('252'0)/'SLAVE FIFO 7/8 FULL*'/
0317 DATA USER_ERROR('253'0)/'RANDOM CHANNEL ADDRESS UNDER-RUN*'/
0318 DATA USER_ERROR('254'0)/'DATA UNDER-RUN*'/
0319 DATA USER_ERROR('255'0)/'CHANNEL/DEVICE NON-EXISTENT*'/
0320 DATA USER_ERROR('256'0)/'ILLEGAL ''USER ERROR'' CODE*'/
0321 DATA USER_ERROR('257'0)/'ILLEGAL ''USER ERROR'' CODE*'/
0322 DATA USER_ERROR('260'0)/'MULT EXT TRIG DIGITAL OUTPUT REQ*'/
0323 DATA USER_ERROR('261'0)/'ILLEGAL ''USER ERROR'' CODE*'/
0324
0325 CHARACTER*33 STATUS_RETURN(0:3)
0326 DATA STATUS_RETURN(0)/'SUCCESSFUL INITIALIZED DATA XFER*'/
0327 DATA STATUS_RETURN(1)/'BUFFER FULL*'/
0328 DATA STATUS_RETURN(2)/'NON-FATAL BUFFER OVER-RUN*'/
0329
```

```
0330 DATA STATUS_RETURN(3)/'ILLEGAL ''STATUS RETURN'' CODE*'/
0331
0332
0333
0334 CALL FRCTOF (LUN)
0335
0336 call dhead1 (lun,'UBA LPA11K')
0337
0338 CALL LINCHK (LUN,2)
0339
0340 WRITE(LUN,10) CNTRL_MAINT
10 0341 FORMAT(/' ',T8,'LA CS1',T24,Z8.4)
0342
0343 CALL OUTPUT (LUN,CNTRL_MAINT,V1CNTRL_MAINT,0,0,0,'0')
0344
0345 DO 20,I = 2,3
0346
0347 FIELD = LIB$EXTZV(1,1,CNTRL_MAINT)
0348
0349 IF (FIELD .NE. 0) THEN
0350
0351 CALL LINCHK (LUN,1)
0352
0353 WRITE(LUN,15) I + 14
15 0354 FORMAT(' ',T40,'EXTENDED BUS ADDRESS BIT ',I2,'.')
0355 ENDIF
0356
0357 20 CONTINUE
0358
0359 CALL OUTPUT (LUN,CNTRL_MAINT,V2CNTRL_MAINT,6,6,11,'0')
0360
0361 CALL OUTPUT (LUN,CNTRL_MAINT,V3CNTRL_MAINT,13,13,15,'0')
0362
0363 CALL LINCHK (LUN,1)
0364
0365 WRITE(LUN,25) CNTRL_STATUS
25 0366 FORMAT(' ',T8,'LA CS2',T24,Z8.4)
0367
0368 FIELD = LIB$EXTZV(8,8,CNTRL_STATUS)
0369
0370 IF (FIELD .LT. '300'0) THEN
0371
0372 FIELD = LIB$EXTZV(0,3,CNTRL_STATUS)
0373
0374 CALL LINCHK (LUN,1)
0375
0376 WRITE(LUN,30) FIELD
30 0377 FORMAT(' ',T40,'USER INDEX = ',I1,'.')
0378 ENDIF
0379
0380 CALL OUTPUT (LUN,CNTRL_STATUS,V1CNTRL_STATUS,6,6,7,'0')
0381
0382 FIELD = LIB$EXTZV(8,8,CNTRL_STATUS)
0383
0384 IF (FIELD .NE. 0) THEN
0385
0386 CALL LINCHK (LUN,1)
```



```
0387
0388      IF (FIELD .GE. '340'0) THEN
0389
0390      WRITE(LUN,40) FATAL_ERROR(MIN('351'0,FIELD))
0391 40      FORMAT(' ',T40,A<COMPRESSC (FATAL_ERROR(MIN('351'0,FIELD))))>>
0392
0393      ELSE IF (FIELD .GE. '300'0) THEN
0394
0395      WRITE(LUN,50) START_ERROR(MIN('330'0,FIELD))
0396 50      FORMAT(' ',T40,A<COMPRESSC (START_ERROR(MIN('330'0,FIELD))))>>
0397
0398      ELSE IF (FIELD .GE. '240'0) THEN
0399
0400      WRITE(LUN,60) USER_ERROR(MIN('261'0,FIELD))
0401 60      FORMAT(' ',T40,A<COMPRESSC (USER_ERROR(MIN('261'0,FIELD))))>>
0402
0403      ELSE IF (FIELD .LE. '100'0) THEN
0404
0405      WRITE(LUN,70) STATUS_RETURN(MIN('3'0,FIELD))
0406 70      FORMAT(' ',T40,A<COMPRESSC (STATUS_RETURN(MIN('3'0,FIELD))))>>
0407      ENDIF
0408      ENDIF
0409
0410      CALL LINCHK (LUN,1)
0411
0412      WRITE(LUN,90) RDA
0413 90      FORMAT(' ',T8,'LA RDA',T24,Z8.4)
0414
0415      CALL LINCHK (LUN,1)
0416
0417      WRITE(LUN,100) (MAINTENANCE(I+J),J = 3,0,-1)
0418 100     FORMAT(' ',T8,'LA MR',T24,Z22.2)
0419
0420      IF (FIELD .EQ. '343'0) THEN
0421
0422      CALL LINCHK (LUN,2)
0423
0424      WRITE(LUN,110) MAINTENANCE(1)
0425 110     FORMAT(' ',T40,'EXPECTED STATUS = 052 (OCTAL)',/,
0426             1 T40,'ACTUAL STATUS   = ',03,' (OCTAL)')
0427
0428      ELSE IF (FIELD .EQ. '344'0) THEN
0429
0430      CALL LINCHK (LUN,2)
0431
0432      WRITE(LUN,120) (MAINTENANCE(I),I = 0,1)
0433 120     FORMAT(' ',T40,'MASTER VERSION NO. = ',13,'.',/,
0434             1 T40,'SLAVE VERSION NO.   = ',13,'.')
0435
0436      ELSE IF (FIELD .EQ. '346'0) THEN
0437
0438      IF (MAINTENANCE(0) .EQ. '200'0) THEN
0439
0440      CALL LINCHK (LUN,1)
0441
0442      WRITE(LUN,125)
0443 125     FORMAT(' ',T40,'SLAVE FIFO R/W ERROR')
```

```
0444
0445     ELSE IF (MAINTENANCE(1) .EQ. '201'0) THEN
0446
0447     CALL LINCHK (LUN,1)
0448
0449     WRITE(LUN,130)
0450 130   FORMAT(' ',T40,'KW11-K CLOCK A OVER-RUN')
0451     ENDIF
0452
0453     CALL LINCHK (LUN,1)
0454
0455     WRITE(LUN,135) MAINTENANCE(1)
0456 135   FORMAT(' ',T40,'SLAVE FIRMWARE SEQ = ',03,' (OCTAL)')
0457
0458     ELSE IF (FIELD .EQ. '347'0) THEN
0459
0460     CALL LINCHK (LUN,2)
0461
0462     WRITE(LUN,140) (MAINTENANCE(I),I = 0,1)
0463 140   FORMAT(' ',T40,'RETURNED VALUE = ',03,' (OCTAL)',/
0464         1 T40,'EXPECTED VALUE = ',03,' (OCTAL)')
0465
0466     ELSE IF (FIELD .EQ. '350'0) THEN
0467
0468     CALL LINCHK (LUN,2)
0469
0470     WRITE(LUN,150) (MAINTENANCE(I),I = 0,1)
0471 150   FORMAT(' ',T40,'RETURNED VALUE = ',03,' (OCTAL)',/
0472         1 T40,'EXPECTED VALUE = ',03,' (OCTAL)')
0473
0474     ELSE IF (FIELD .EQ. '322'0) THEN
0475
0476     CALL LINCHK (LUN,1)
0477
0478     WRITE(LUN,155) (MAINTENANCE(I),I = 1,0,-1)
0479 155   FORMAT(' ',T40,'ADDR OF MISSING DEV = ',06)
0480     ENDIF
0481
0482     if (emb$w_hd_entry .ne. 98) then
0483
0484     if (ubareg(1) .ne. 0) then
0485
0486     call uba_datapath (lun,ubareg(1),ubareg(2))
0487     endif
0488     endif
0489
0490     call linchk (lun,1)
0491
0492     write(lun,160)
0493 160   format(' ',:)
0494
0495     call ucb$l_char (lun,emb$l_dv_char)
0496
0497     call ucb$w_sts (lun,emb$w_dv_sts)
0498
0499     call ucb$l_opcnt (lun,emb$l_dv_opcnt)
0500
```



```

0501      call ucb$w_errcnt (lun,emb$w_dv_errcnt)
0502
0503      if (emb$w_hd_entry .ne. 98) then
0504
0505      call linchk (lun,1)
0506
0507      write(lun,160)
0508
0509      call lpa11k_qio (lun,emb$w_dv_func)
0510
0511      call irp$w_bcnc (lun,emb$w_dv_bcnc)
0512
0513      call irp$w_boff (lun,emb$w_dv_boff)
0514
0515      call irp$l_pid (lun,emb$l_dv_rqpid)
0516
0517      call irp$q_iosb (lun,emb$l_dv_iosb1)
0518      endif
0519
0520      RETURN
0521      END

```

PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	1756	PIC CON REL LCL SHR EXE RD NOWRT LONG
1 \$PDATA	659	PIC CON REL LCL SHR NOEXE RD NOWRT LONG
2 \$LOCAL	2572	PIC CON REL LCL NOSHR NOEXE RD WRT LONG
3 EMB	512	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	5499	

ENTRY POINTS

Address	Type	Name
0-00000000		LPA11K

VARIABLES

Address	Type	Name	Address	Type	Name
3-00000052	I*4	CNTRL_MAINT	3-00000056	I*4	CNTRL_STATUS
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_DV_SID	3-0000003F	CHAR	EMB\$L_DV_NAME

3-00000024 I*2 EMB\$W_DV_BCNT
3-0000002C I*2 EMB\$W_DV_ERRCNT
3-0000001A I*2 EMB\$W_DV_STS
3-00000004 I*2 EMB\$W_HD_ENTRY
2-000007F0 I*4 FIELD
2-000007F8 I*4 J
3-0000005A I*4 RDA

3-00000022 I*2 EMB\$W_DV_BOFF
3-0000003C I*2 EMB\$W_DV_FUNC
3-0000002A I*2 EMB\$W_DV_UNIT
3-0000000E I*2 EMB\$W_HD_ERRSEQ
2-000007F4 I*4 I
AP-00000004a L*1 LUN

ARRAYS

Address	Type	Name	Bytes	Dimensions
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)
2-000000CA	CHAR	FATAL_ERROR	310	(224:233)
3-0000005E	L*1	MAINTENANCE	4	(0:3)
2-00000200	CHAR	START_ERROR	792	(192:215)
2-0000076A	CHAR	STATUS_RETURN	132	(0:3)
3-00000062	I*4	UBAREG	8	(2)
2-00000518	CHAR	USER_ERROR	594	(160:177)
2-00000000	CHAR	V1CNTRL_MAINT	7	(0:0)
2-000000A0	CHAR	V1CNTRL_STATUS	42	(6:7)
2-00000007	CHAR	V2CNTRL_MAINT	120	(6:11)
2-0000007F	CHAR	V3CNTRL_MAINT	33	(13:15)

LABELS

Address	Label	Address	Label	Address	Label	Address	Label	Address	Label	Address	Label
1-00000035	10'	1-00000049	15'	**	20	1-0000006F	25'	1-00000082	30'	1-0000009C	40'
1-000000A8	50'	1-000000B4	60'	1-000000C0	70'	1-000000CC	90'	1-000000DF	100'	1-000000F3	110'
1-0000013B	120'	1-0000017C	125'	1-00000198	130'	1-000001B7	135'	1-000001E0	140'	1-00000227	150'
1-0000026E	155'	1-0000028E	160'								

FUNCTIONS AND SUBROUTINES REFERENCED

Type	Name	Type	Name	Type	Name	Type	Name	Type	Name
I*4	COMPRESSC		DHEAD1		FRCTOF		IRP\$L_PID		IRP\$W_BCNT
	IRP\$W_BOFF	I*4	LIB\$EXTZV		LINCHK		LPA11K_QIO		UBA_DATAPATH
	UCB\$SL_CHAR		UCB\$SL_OPCNT		UCB\$W_ERRCNT		UCB\$W_STS		
							IRP\$Q_IOSB		
							OUTPUT		


```

0001
0002
0003
0004 Subroutine LPA11K_QIO (lun,emb$w_dv_func)
0005
0006
0007 include 'src$:qiocommon.for /nolist'
0008
0009
0010
0011
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PROGRAM SECTIONS

Name	Bytes	Attributes
0 \$CODE	149	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 Q10COMMON	1247	PIC OVR REL GBL SHR NOEXE RD WRT LONG
Total Space Allocated	1952	

ENTRY POINTS

Address	Type	Name
0-00000000		LPA11K_Q10

VARIABLES

Address	Type	Name	Address	Type	Name
AP-00000008a	I*2	EMBSW DV FUNC	2-00000200	I*4	I
3-00000442	CHAR	IOS_ABORT	3-00000340	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
3-000004C9	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
3-0000046B	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

LPA11K_QIO

M 7
16-Sep-1984 00:05:39
5-Sep-1984 14:00:17

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER:[ERF.SRC]LPA11K.FOR;1

Page 11

3-0000017E CHAR IOS_WRITETRACKD
3-00000448 CHAR IOS_WRITEWITHBUF
AP-00000004@ L*1 LUN

3-00000326 CHAR IOS_WRITEVBLK
3-00000257 CHAR IOS_WRTTMKR
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
	IRPSW_FUNC	I*4	LIB\$EXTZV

COMMAND QUALIFIERS

FORTRAN /LIS=LISS:LPA11K/OBJ=OBJ\$:LPA11K MSRC\$:LPA11K

/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:	7.64 seconds
Elapsed Time:	17.17 seconds
Page Faults:	280
Dynamic Memory:	209 pages

