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PPPPPPPPPPPP  LLL
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Sym

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PPPPPPPP LL      IIIIII  WW      WW  RRRRRRRR  IIIIII  TTTT TTTT TTTT  EEEEEEEEE
PPPPPPPP LL      IIIIII  WW      WW  RRRRRRRR  IIIIII  TTTT TTTT TTTT  EEEEEEEEE
PP      PP LL      II      WW      WW  RR      RR  II      TT      EE
PP      PP LL      II      WW      WW  RR      RR  II      TT      EE
PP      PP LL      II      WW      WW  RR      RR  II      TT      EE
PPPPPPPP LL      II      WW      WW  RRRRRRRR  II      TT      EEEEEEEE
PPPPPPPP LL      II      WW      WW  RRRRRRRR  II      TT      EEEEEEEE
PP      LL      II      WW  WW  WW  RR  RR  II      TT      EE
PP      LL      II      WW  WW  WW  RR  RR  II      TT      EE
PP      LL      II      WWW  WWW  RR  RR  II      TT      EE
PP      LL      II      WWW  WWW  RR  RR  II      TT      EE
PP      LL      II      WW      WW  RR      RR  IIIIII  TT      EEEEEEEEE
PP      LLLLLLLLLL IIIIII  WW      WW  RR      RR  IIIIII  TT      EEEEEEEEE
PP      LLLLLLLLLL IIIIII  WW      WW  RR      RR  IIIIII  TT      EEEEEEEEE

```

```

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
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LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
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LL      II      SS
LL      II      SS
LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS

```

```
0000 1 .title pli$write - pl1 runtime write file
0000 2 .ident /1-003/ ; Edit WHM1003
0000 3
0000 4
0000 5 :*****
0000 6 :*
0000 7 :* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 23 :* SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 :*
0000 25 :*
0000 26 :*****
0000 27 :
0000 28
0000 29
0000 30 :++
0000 31 : facility:
0000 32 :
0000 33 : VAX/VMS PL1 runtime library.
0000 34 : abstract:
0000 35 :
0000 36 : This module contains the pl1 runtime routine for writing a record to
0000 37 : a file.
0000 38 :
0000 39 : author: c. spitz 18-jul-79
0000 40 :
0000 41 : modified:
0000 42 :
0000 43 : Bill Matthews 22-Sep-81
0000 44 :
0000 45 : Fix to get attributes of a close file from the declared
0000 46 : attributes rather than the current attributes
0000 47 :
0000 48 :
0000 49 : 1-003 Bill Matthews 29-September-1982
0000 50 :
0000 51 : Invoke macros $defdat and rtshare instead of $defopr and share.
0000 52 :
0000 53 :--
0000 54 :
0000 55 :
0000 56 :+
0000 57 : external definitions
```

Sy  
--  
PS

```
0000 58 :-  
0000 59  
0000 60 $deffcb ;define file control block offsets  
0000 61 $defdat ;define operand node data types  
0000 62 $rabdef ;define rab offsets  
0000 63 $rmsdef ;define rms error codes  
0000 64 $fabdef ;define fab offsets  
0000 65  
0000 66 ;+  
0000 67 ; local definitions  
0000 68 :-  
0000 69 $offset 4,positive,<- ;define arguments  
0000 70 <fcbaddr,4>,- ;addr of fcb  
0000 71 <fromaddr,4>,- ;addr of from  
0000 72 <fromlen,2>,- ;length of from  
0000 73 <fromtyp,2>,- ;data type of from  
0000 74 <keyaddr,4>,- ;addr of keyfrom  
0000 75 <keylen,4>,- ;length of keyfrom  
0000 76 <keytyp,4>,- ;data type of keyfrom  
0000 77 <fxcaddr,4>,- ;addr of fixed control  
0000 78 <fxclen,2>,- ;len of fixed control  
0000 79 <fxctyp,2>,- ;data type of fixed control  
0000 80 <recidto,4>,- ;addr of record id to  
0000 81 >  
0000 82 ;  
0000 83 rtshare ;sharable  
0000 84
```

```

0000 86
0000 87 :++
0000 88 : pli$write -- write a record to a file
0000 89
0000 90 : functional description:
0000 91
0000 92 : This routine writes a record to a pl1 file.
0000 93
0000 94 : inputs:
0000 95 :     (ap) = number of arguments
0000 96 :             3 if no key, no options
0000 97 :             6 if key, no options
0000 98 :             9 if any options
0000 99 :     4(ap) = address of the fcb for this file
0000 100 :     8(ap) = address of the from reference
0000 101 :    12(ap) = word containing the length of the from reference
0000 102 :    14(ap) = word containing the data type of the from reference
0000 103 :    16(ap) = address of the key reference
0000 104 :    20(ap) = size/prec of key
0000 105 :    24(ap) = data type of key
0000 106 :    28(ap) = addr of fixed control
0000 107 :    32(ap) = word containing length of fixed control
0000 108 :    34(ap) = word containing data type of fixed control
0000 109 :    36(ap) = addr of record id to
0000 110
0000 111 : outputs:
0000 112 :     fcb_l_attr
0000 113 :     atr_m_delete and atr_m_virgin are set false
0000 114 :     atr_m_write and atr_m_currec are set true
0000 115 :     fcb_q_rfa is set to the rfa of the record that was written
0000 116
0000 117 : side effects:
0000 118 :     the record is written to the file.
0000 119
0000 120 :--
0000 121
01FC 0000 122 : .entry pli$write,^m<r2,r3,r4,r5,r6,r7,r8>
0002 123
0002 124 : check arguments.  at least 3 arguments must be present.
0002 125
03 6C D1 0002 126 :     cmpl    (ap),#3           ;enough arguments?
06 0F 13 0005 127 :     beql    10$              ;if eql, yes
09 6C D1 0007 128 :     cmpl    (ap),#6           ;enuf args?
0A 13 000A 129 :     beql    10$              ;if eql, yes
09 6C D1 000C 130 :     cmpl    (ap),#9           ;enuf args?
05 13 000F 131 :     beql    10$              ;if eql, yes
50 D4 0011 132 :     clrl    r0                ;indicate not enough parms
0140 31 0013 133 :     brw     fail              ;and fail
52 04 AC D0 0016 134 10$:    movl    fcbaddr(ap),r2      ;get address of fcb
53 0C A2 D0 001A 135 :     movl    fcb_l_attr(r2),r3 ;get attributes
001E 136 :
001E 137 : open the file if necessary. the open attributes will be record and
001E 138 : if update was not specified in the file declaration, output. if the
001E 139 : file is not opened after calling open, an error is signaled.
001E 140 :
29 53 01 E0 001E 141 :     bbs     #atr_v_opened,r3,30$ ;if file not opened
00001000 8F DD 0022 142 :     pushl   #atr_m_record      ;then request record

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03 10 A2 04 E0 0028 143      bbs      #atr_v_update, -
                                fcb_l_attr(r2),20$      ;if update not specified
                                #atr_m_output,(sp)      ;then request output
                                #2,g^pli$open          ;open the file
00000000'GF 02 FB 0032 146 20$:  pushl    r2          ;push address of fcb
                                calls   #1,g^pli$$bytesize ;get byte size
                                53 0C A2 D0 0039 148      movl    fcb_l_attr(r2),r3 ;get the new attributes
                                OA 53 01 E0 003D 149      bbs     #atr_v_opened,r3,30$ ;if file still not opened
50 00000000'8F D0 0041 150      movl    #pli$_open,r0      ;then set open failure
                                010B 31 0048 151      brw     fail              ;and fail
                                004B 152      ;
                                004B 153      ; check file attributes. file must have record. file must not have
                                004B 154      ; input. if file has update, it must have direct.
                                004B 155      ;
50 0A 53 0C E0 004B 156 30$:  bbs     #atr_v_record,r3,40$      ;if file does not have record
                                00000000'8F D0 004F 157      movl    #pli$_notrec,r0    ;then set not record file
                                00FD 31 0056 158      brw     fail              ;and fail
                                OA 53 06 E1 0059 159 40$:  bbc     #atr_v_input,r3,50$ ;if file has input
50 00000000'8F D0 005D 160      movl    #pli$_writein,r0   ;then set attempted write to input file
                                00EF 31 0064 161      brw     fail              ;and fail
                                0067 162      ;
                                0067 163      ; process from reference. copy size and address of from to rab.
                                0067 164      ;
54 62 A2 9E 0067 165 50$:  movab   fcb_b_rab(r2),r4      ;get address of rab
28 A4 08 AC D0 006B 166      movl    fromaddr(ap), b$l_rbf(r4) ;copy address of buffer
                                0C AC DD 0070 167      pushl   fromlen(ap)       ;push size and data type
00000000'GF 01 FB 0073 168      calls   #1,g^pli$$bytesize ;get byte size
                                03 50 E8 007A 169      blbs   r0,55$            ;if invalid data type
                                00D6 31 007D 170      brw     fail              ;then fail
                                22 A4 51 B0 0080 171 55$:  movw   r1,rab$w_rsz(r4)    ;copy size of buffer
                                0E AC 08 B1 0084 172      cmpw   #dat_k_char_var,fromtyp(ap) ;if writing from char var
                                13 12 0088 173      bneq   56$              ;then
                                0B 53 0D E0 008A 174      bbs     #atr_v_scalar,r3,551$ ;if scalar varying, write it all
22 A4 08 BC B0 008E 175      movw   @fromaddr(ap),rab$w_rsz(r4) ;copy current size to rab
                                28 A4 02 C0 0093 176      addl   #2,rab$l_rbf(r4)   ;bump address so we don't write length
                                04 11 0097 177      brb    56$              ;cont
                                22 A4 02 A0 0099 178 551$:  addw   #2,rab$w_rsz(r4)   ;include vcha len in write size
                                009D 179      ;
                                009D 180      ; process options
                                009D 181      ;
                                2C A4 D4 009D 182 56$:  clrl   rab$l_rhb(r4)     ;assume no fixed control from
                                09 6C D1 00A0 183      cmpl   (ap),#9          ;options specified?
                                14 12 00A3 184      bneq   59$              ;if neg, no
                                50 1C AC 9E 00A5 185      movab   fxcaddr(ap),r0    ;get addr of fixed control
00000000'GF 16 00A9 186      jsb    g^pli$$fxdctlfrom ;process fixed control
                                50 24 AC D0 00AF 187      movl   recidto(ap),r0    ;get addr of record id to
00000000'GF 16 00B3 188      jsb    g^pli$$valrecidto ;validate record id to
                                00B9 189      ;
                                00B9 190      ; process keyfrom option. if keyfrom is specified, the file must be keyed.
                                00B9 191      ; the keys size and address is copied to the rab. keyed access is set in
                                00B9 192      ; the rab.
                                00B9 193      ;
                                06 6C D1 00B9 194 59$:  cmpl   (ap),#6          ;keyfrom specified?
                                50 23 19 00BC 195      blss   70$              ;if lss, no
                                10 AC D0 00BE 196      movl   keyaddr(ap),r0    ;copy address of key
                                0A 53 1D 13 00C2 197      beql   70$              ;if addr = 0 then no keyfrom
50 00000000'8F E0 00C4 198      bbs     #atr_v_keyed,r3,60$ ;if file is not keyed
                                00C8 D0 00C8 199      movl   #pli$_notkeyd,r0  ;then set not keyed file

```

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0084 31 00CF 200      brw      fail                ;and fail
      35 A4 94 00D2 201 60$:  clrb      rab$b_krf(r4)          ;writes always go to primary index
      10 AC 9E 00D5 202      movab     keyaddr(ap),r0        ;point to key descr
00000000'GF 16 00D9 203      jsb      g^pli$$writekey_r8    ;process key
      29 11 00DF 204      brb      100$                ;continue
      00E1 205      ;
      00E1 206      ; sequential write, make sure file has seq!. set sequential access in rab.
      00E1 207      ; if delete set, find the deleted record.
      00E1 208      ;
50 0A 53 0A E0 00E1 209 70$:  bbs      #atr_v_seql,r3,80$      ;if not seq! file
00000000'8F D0 00E5 210      movl     #pli$_notseq!,r0        ;set not sequential file
      0067 31 00EC 211      brw      fail                ;and fail
50 0A 53 08 E1 00EF 212 80$:  bbc      #atr_v_keyed,r3,90$     ;if file has keyed
00000000'8F D0 00F3 213      movl     #pli$_nokey,r0        ;set no key specified
      0059 31 00FA 214      brw      fail                ;and fail
14 1E A4 00 90 00FD 215 90$:  movb     #rab$c_seq,rab$b_rac(r4) ;set sequential access in rab
00BC C2 05 E1 0101 216      bbc      #fab$v_bio,<fcb_b_fab+fab$b_fac>(r2),105$ ;if block io
      38 A4 D4 0107 217      clrl     rab$l_bkt(r4)        ;set for seq! access
      010A 218      ;
      010A 219      ; put the record
      010A 220      ;
0B 00BC C2 05 E1 010A 221 100$: bbc      #fab$v_bio,<fcb_b_fab+fab$b_fac>(r2),105$ ;if block io
      09 11 0110 222      $write   r4                ;do a write
      011B 223      brb      107$                ;cont
50 0A 50 E8 0124 224 105$:  $put     r4                ;put the record
00000000'8F D0 0127 225 107$:  blbs     r0,120$              ;if put failed
      0025 31 012E 226 110$:  movl     #pli$_rmsr,r0        ;then set error code in rab
      0131 227      brw      fail                ;and fail
      0131 228      ;
      0131 229      ; successful completion
      0131 230      ;
0C A2 02080000 8F CA 0131 231 120$: bicl     #<atr_m_delete!atr_m_virgin>, - ;clear delete, virgin
      0139 232      fcb_l_a^tr(r2)          ;in fcb
0C A2 00140000 8F C8 0139 233      bisl     #<atr_m_write!atr_m_currec>, - ;set write as last oper and
      0141 234      fcb_l_a^tr(r2)          ;current record incorrect
20 A2 10 A4 7D 0141 235      movq     rab$w_rfa(r4),fcb_q_rfa(r2) ;set correct current record in fcb
      09 6C D1 0146 236      cmpl     (ap),#9            ;options passed?
      0A 19 0149 237      blss     125$                ;if lss, no
50 24 AC D0 014B 238      movl     recidto(ap),r0        ;get addr of recid to
      04 13 014F 239      beql     125$                ;if eql, not specified
60 10 A4 7D 0151 240      movq     rab$w_rfa(r4),(r0)    ;set recid .o
      04 0155 241 125$:  ret                ;return
      0156 242

```

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SE  
FO

			12	0156	244				
50	00000000	'8F	D0	0158	246	fail:	bneq	10\$	;if not enough parms
			D4	015F	247		movl	#pli\$_parm,r0	;then set not enough parms
	01	6C	D1	0161	248		ctrl	r2	;assume no fcb specified
			19	0164	249		cmpl	(ap),#1	;if fcb specified
	52	04	D0	0166	250		blss	30\$	;then
50	00000000	'8F	D1	016A	251	10\$:	movl	fcbaddr(ap),r2	;get address of fcb
			12	0171	252		cmpl	#pli\$_rmsr,r0	;rms rab error code?
	03	6C	D1	0173	253		bneq	30\$	;if neq, no, cont
			13	0176	254		cmpl	(ap),#3	;key specified?
	53	10	9E	0178	255		beql	30\$	;if eql, no, cont
	00000000	'GF	16	017C	256		movab	keyaddr(ap),r3	;set addr of key descr for onkey
			DD	0182	257	30\$:	jsb	g^plisschk_keycnd	;check for key condition
			DD	0184	258		pushl	r2	;set fcb addr
	00000000	'8F	DD	0186	259		pushl	r0	;set error code
00000000	'GF	03	FB	018C	260	40\$:	pushl	#pli\$_error	;set error condition
			04	0193	261		calls	#3,g^plisio_error	;signal the condition
				0194	262		ret		;return
				0194	263				
				0194	264		.end		



PLISWRITE  
Symbol table

- pl1 runtime write file

K 3

16-SEP-1984 02:27:51 VAX/VMS Macro V04-00  
6-SEP-1984 11:40:25 [PLIRTL.SRC]PLIWRITE.MAR;1

Page 7  
(1)

\$\$TMP1 = 00000001  
\$\$TMP2 = 00000054  
ATR\_M\_CURREC = 00040000  
ATR\_M\_DELETE = 00080000  
ATR\_M\_OUTPUT = 00000020  
ATR\_M\_RECORD = 00001000  
ATR\_M\_VIRGIN = 02000000  
ATR\_M\_WRITE = 00100000  
ATR\_V\_INPUT = 00000006  
ATR\_V\_KEYED = 00000008  
ATR\_V\_OPENED = 00000001  
ATR\_V\_RECORD = 0000000C  
ATR\_V\_SCALVAR = 0000000D  
ATR\_V\_SEQL = 0000000A  
ATR\_V\_UPDATE = 00000004  
DAT\_K\_CHAR\_VAR = 0000000B  
DIR... = 00000001  
FABS\$FAC = 00000016  
FABS\$V\_BIO = 00000005  
FAIL = 00000156 R 02  
FCBADDR = 00000004  
FCB\_B\_ENVIR = 000001C2  
FCB\_B\_ESA = 0000012E  
FCB\_B\_EXTRA = 0000003D  
FCB\_B\_FAB = 000000A6  
FCB\_B\_IDENT = 00000040  
FCB\_B\_IDENT\_NAM = 00000042  
FCB\_B\_NAM = 000000F6  
FCB\_B\_NUMKCBS = 0000003C  
FCB\_B\_RAB = 00000062  
FCB\_C\_LEN = 000001C2  
FCB\_C\_STRLN = 00000034  
FCB\_L\_ATTR = 0000000C  
FCB\_L\_BUF = 00000014  
FCB\_L\_BUF\_END = 00000018  
FCB\_L\_BUF\_PT = 0000001C  
FCB\_L\_CNDADDR = 000001B2  
FCB\_L\_CONDIT = 000001AE  
FCB\_L\_DTTR = 00000010  
FCB\_L\_ERROR = 00000008  
FCB\_L\_KCB = 00000038  
FCB\_L\_NEXT = 00000000  
FCB\_L\_PREVIOUS = 00000004  
FCB\_L\_PRN = 00000034  
FCB\_Q\_RFA = 00000020  
FCB\_W\_COLUMN = 0000002E  
FCB\_W\_IDENT\_LEN = 00000040  
FCB\_W\_LINE = 00000030  
FCB\_W\_LINESIZE = 0000002A  
FCB\_W\_PAGE = 00000032  
FCB\_W\_PAGESIZE = 0000002C  
FCB\_W\_REVISION = 00000028  
FROMADDR = 00000008  
FROMLEN = 0000000C  
FROMTYP = 0000000E  
FXCADDR = 0000001C  
FXCLEN = 00000020

FXCTYP = 00000022  
KEYADDR = 00000010  
KEYLEN = 00000014  
KEYTYP = 00000018  
PLI\$\$BYTESIZE \*\*\*\*\* X 02  
PLI\$\$CHK\_KEYCND \*\*\*\*\* X 02  
PLI\$\$FXDCTLFROM \*\*\*\*\* X 02  
PLI\$\$VALRECIDTO \*\*\*\*\* X 02  
PLI\$\$WRITEKEY\_RB \*\*\*\*\* X 02  
PLI\$IO\_ERROR \*\*\*\*\* X 02  
PLI\$OPEN \*\*\*\*\* X 02  
PLI\$WRITE = 00000000 RG 02  
PLI\$ \_ERROR \*\*\*\*\* X 02  
PLI\$ \_NOKEY \*\*\*\*\* X 02  
PLI\$ \_NOTKEYD \*\*\*\*\* X 02  
PLI\$ \_NOTREC \*\*\*\*\* X 02  
PLI\$ \_NOTSQL \*\*\*\*\* X 02  
PLI\$ \_OPEN \*\*\*\*\* X 02  
PLI\$ \_PARM \*\*\*\*\* X 02  
PLI\$ \_RMSR \*\*\*\*\* X 02  
PLI\$ \_WRITEIN \*\*\*\*\* X 02  
RABS\$KRF = 00000035  
RABS\$RAC = 0000001E  
RABS\$SEQ = 00000000  
RABS\$L\_BKT = 00000038  
RABS\$L\_RBF = 00000028  
RABS\$L\_RHB = 0000002C  
RABS\$W\_RFA = 00000010  
RABS\$W\_RSZ = 00000022  
RECIDTO = 00000024  
SIZ... = 00000001  
SYSS\$PUT \*\*\*\*\* GX 02  
SYSS\$WRITE \*\*\*\*\* GX 02

-----  
! Psect synopsis !  
-----

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	000001C2 ( 450.)	01 ( 1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
_PLISCODE	00000194 ( 404.)	02 ( 2.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

-----  
! Performance indicators !  
-----

Phase	Page faults	CPU Time	Elapsed Time
Initialization	9	00:00:00.07	00:00:00.33
Command processing	79	00:00:00.52	00:00:01.53
Pass 1	199	00:00:07.30	00:00:15.58
Symbol table sort	0	00:00:00.79	00:00:01.89
Pass 2	54	00:00:01.35	00:00:02.89
Symbol table output	11	00:00:00.07	00:00:00.28
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	354	00:00:10.15	00:00:22.53

The working set limit was 900 pages.  
 39078 bytes (77 pages) of virtual memory were used to buffer the intermediate code.  
 There were 40 pages of symbol table space allocated to hold 694 non-local and 22 local symbols.  
 264 source lines were read in Pass 1, producing 14 object records in Pass 2.  
 21 pages of virtual memory were used to define 18 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
_\$255\$DUA28:[PLIRTL.OBJ]PLIRTMAC.MLB;1	5
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	10
TOTALS (all libraries)	15

789 GETS were required to define 15 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=TRACEBACK/LIS=LISS:PLIWRITE/OBJ=OBJ\$:PLIWRITE MSRC\$:PLIWRITE/UPDATE=(ENHS:PLIWRITE)+LIBS:PLIRTMAC/L



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BANNER LIS

PLWRITE LIS

SMBREQ REQ

PLIVECTOR LIS

SMBRSUSHR MAP

PLTRODATA LIS

SMBDEF SOL

PRTSMB

DISPATCH LIS

PLISTRING LIS

PRTSMB MAP

FORMAT LIS

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