


```

PPPPPPPP      AAAAAA      SSSSSSSS  WW      WW      RRRRRRRR      IIIIII      RRRRRRRR      EEEEEEEEEE      GGGGGGGG
PPPPPPPP      AAAAAA      SSSSSSSS  WW      WW      RRRRRRRR      IIIIII      RRRRRRRR      EEEEEEEEEE      GGGGGGGG
PP      PP      AA      AA      SS      WW      WW      RR      RR      RR      RR      RR      RR      EE      GG
PP      PP      AA      AA      SS      WW      WW      RR      RR      RR      RR      RR      RR      EE      GG
PP      PP      AA      AA      SS      WW      WW      RR      RR      RR      RR      RR      RR      EE      GG
PPPPPPPP      AA      AA      SSSSSS  WW      WW      RRRRRRRR      IIIIII      RRRRRRRR      EEEEEEEEEE      GG
PPPPPPPP      AA      AA      SSSSSS  WW      WW      RRRRRRRR      IIIIII      RRRRRRRR      EEEEEEEEEE      GG
PP      AAAAAAAAAA      SS      WW      WW      WW      RR      RR      RR      RR      RR      RR      EE      GG      GGGGGG
PP      AAAAAAAAAA      SS      WW      WW      WW      RR      RR      RR      RR      RR      RR      EE      GG      GGGGGG
PP      AA      AA      SS      WWWW      WWWW      RR      RR      RR      RR      RR      RR      EE      GG      GG
PP      AA      AA      SS      WWWW      WWWW      RR      RR      RR      RR      RR      RR      EE      GG      GG
PP      AA      AA      SSSSSSSS  WW      WW      RR      RR      IIIIII      RR      RR      EEEEEEEEEE      GGGGGG
PP      AA      AA      SSSSSSSS  WW      WW      RR      RR      IIIIII      RR      RR      EEEEEEEEEE      GGGGGG

```

```

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
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```

```

1 0001 0 MODULE PASSWRITE_REALE_G ( %TITLE 'Write a G_floating in E format'
2 0002 0 IDENT = '1-002' ! File: PASWRIREG.B32 Edit: SBL1002
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1
30 0030 1 **
31 0031 1 FACILITY: Pascal Language Support
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module contains procedures which write a G_floating in
36 0036 1 exponential notation to a textfile or string.
37 0037 1
38 0038 1 ENVIRONMENT: User mode - AST reentrant
39 0039 1
40 0040 1 AUTHOR: Steven B. Lionel, CREATION DATE: 1-April-1981
41 0041 1
42 0042 1 MODIFIED BY:
43 0043 1
44 0044 1 1-001 - Original. SBL 1-April-1981
45 0045 1 1-002 - Make total-width a longword. SBL 30-June-1982
46 0046 1
47 0047 1

```

```
49 0048 1 XSBTTL 'Declarations'
50 0049 1
51 0050 1 PROLOGUE DEFINITIONS:
52 0051 1
53 0052 1
54 0053 1 REQUIRE 'RTLIN:PASPROLOG';           ! Externals, linkages, PSECTs, structures
55 0117 1
56 0118 1
57 0119 1 TABLE OF CONTENTS:
58 0120 1
59 0121 1
60 0122 1 FORWARD ROUTINE
61 0123 1     PASSWRITE_REALE_G: NOVALUE,       ! Write to textfile
62 0124 1     PASSWRITEV_REALE_G: NOVALUE;     ! Write to string
63 0125 1
64 0126 1
65 0127 1 MACROS:
66 0128 1
67 0129 1     NONE
68 0130 1
69 0131 1 EQUATED SYMBOLS:
70 0132 1
71 0133 1     NONE
72 0134 1
73 0135 1 FIELDS:
74 0136 1
75 0137 1     NONE
76 0138 1
77 0139 1 OWN STORAGE:
78 0140 1
79 0141 1     NONE
80 0142 1
```

```

82 0143 1 %SBTTL 'PASSWRITE REALE G - Write G_floating in E format to textfile'
83 0144 1 GLOBAL ROUTINE PASSWRITE_REALE_G (
84 0145 1     PFV: REF $PASSPFV_FILE_VARIABLE,           ! File variable
85 0146 1     VALUE_0, VALUE_1,                       ! Value to write
86 0147 1     TOTAL_WIDTH: SIGNED,                   ! Total field width
87 0148 1     ERROR                                  ! Error unwind address
88 0149 1 ): NOVALUE =
89 0150 1
90 0151 1 +-
91 0152 1 FUNCTIONAL DESCRIPTION:
92 0153 1
93 0154 1     This procedure writes a G_floating value in exponential notation
94 0155 1     to the specified textfile.
95 0156 1
96 0157 1 CALLING SEQUENCE:
97 0158 1
98 0159 1     CALL PASSWRITE_REALE_G (PFV.mr.r, VALUE.rg.v, TOTAL_WIDTH.r.l.v
99 0160 1     [ERROR.j.r])
100 0161 1
101 0162 1 FORMAL PARAMETERS:
102 0163 1
103 0164 1     PFV           - The Pascal File Variable (PFV) passed by reference.
104 0165 1                 The structure of the PFV is defined in PASPFV.REQ.
105 0166 1
106 0167 1     VALUE        - The G_floating value to write by immediate value.
107 0168 1                 Note that this requires two argument list positions.
108 0169 1
109 0170 1     TOTAL_WIDTH    - Total field width.
110 0171 1
111 0172 1     ERROR         - Optional. Address to unwind to if an error occurs.
112 0173 1
113 0174 1 IMPLICIT INPUTS:
114 0175 1
115 0176 1     NONE
116 0177 1
117 0178 1 IMPLICIT OUTPUTS:
118 0179 1
119 0180 1     NONE
120 0181 1
121 0182 1 ROUTINE VALUE:
122 0183 1
123 0184 1     NONE
124 0185 1
125 0186 1 SIDE EFFECTS:
126 0187 1
127 0188 1     If the file is the standard file OUTPUT, it is implicitly opened.
128 0189 1
129 0190 1 SIGNALLED ERRORS:
130 0191 1
131 0192 1     LINTOOLON - Line too long
132 0193 1     NEGWIDDIG - negative Width or Digits specification is not allowed
133 0194 1
134 0195 1 --
135 0196 1
136 0197 2 BEGIN
137 0198 2
138 0199 2 LOCAL
    
```

```

139 0200 2      FCB: REF $PASSFCB CONTROL_BLOCK,      ! File control block
140 0201 2      FIELD_WIDTH: SIGNED,          ! Minimum/actual width
141 0202 2      REMAINING_WIDTH,              ! Maximum width
142 0203 2      PFV_ADDR: VOLATILE,          ! Enable argument
143 0204 2      UNWIND_ACT: VOLATILE,        ! Enable argument
144 0205 2      ERROR_ADDR: VOLATILE;        ! Enable argument
145 0206 2
146 0207 2      BUILTIN
147 0208 2      ACTUALCOUNT;
148 0209 2
149 0210 2      ENABLE
150 0211 2      PASS$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR);      ! Enable error handler
151 0212 2
152 0213 2      !+
153 0214 2      ! Get ERROR parameter, if present.
154 0215 2      !-
155 0216 2
156 0217 2      IF ACTUALCOUNT () GEQU 5
157 0218 2      THEN
158 0219 2      ERROR_ADDR = .ERROR;          ! Set unwind address
159 0220 2
160 0221 2      PFV_ADDR = PFV [PFV$R_PFV];    ! Set PFV address
161 0222 2
162 0223 2      !+
163 0224 2      ! Validate PFV and get PFV.
164 0225 2      !-
165 0226 2
166 0227 2      PASS$VALIDATE_PFV (PFV [PFV$R_PFV]; FCB);
167 0228 2
168 0229 2      !+
169 0230 2      ! Set unwind action to unlock file.
170 0231 2      !-
171 0232 2
172 0233 2      UNWIND_ACT = PASS$K_UNWIND_UNLOCK;
173 0234 2
174 0235 2      !+
175 0236 2      ! Do common initialization.
176 0237 2      !-
177 0238 2
178 0239 2      PASS$INIT_WRITE (PFV [PFV$R_PFV], FCB [FCB$R_FCB]; FCB);
179 0240 2
180 0241 2      !+
181 0242 2      ! Get field width and maximum width. Ensure that field width is not
182 0243 2      ! negative.
183 0244 2      !-
184 0245 2
185 0246 2      FIELD_WIDTH = .TOTAL_WIDTH;
186 0247 2      IF .FIELD_WIDTH LSS 0
187 0248 2      THEN
188 0249 2      $PASS$IO_ERROR (PASS$NEGWIDDIG, 0);
189 0250 2      REMAINING_WIDTH = .FCB [FCB$A_RECORD_END] - .FCB [FCB$A_RECORD_CUR];
190 0251 2
191 0252 2      !+
192 0253 2      ! Do the convert. If it fails, give an error.
193 0254 2      !-
194 0255 2
195 0256 2      IF NOT PASS$CVT_G_T (VALUE_0,          ! Value to convert

```

```

: 196      0257      2      .FCB [FCBSA_RECORD_CUR],! Destination
: 197      0258      2      FIELD_WIDTH,      ! Minimum/actual width
: 198      0259      2      .REMAINING_WIDTH)      ! Maximum width
: 199      0260      2      THEN
: 200      0261      2      $PASSIO_ERROR (PASS_LINTOOLON,1,(.FIELD_WIDTH-.REMAINING_WIDTH));
: 201      0262      2
: 202      0263      2      !+
: 203      0264      2      ! Advance the record pointer.
: 204      0265      2      !-
: 205      0266      2
: 206      0267      2      FCB [FCBSA_RECORD_CUR] = .FCB [FCBSA_RECORD_CUR] + .FIELD_WIDTH;
: 207      0268      2
: 208      0269      2      !+
: 209      0270      2      ! Call WRITE epilogue routine to move the last character written to the
: 210      0271      2      ! user's buffer and to unlock the file variable.
: 211      0272      2      !-
: 212      0273      2
: 213      0274      2      PASSSEND_WRITE (PFV [PFV$R_PFV], FCB [FCB$R_FCB]);
: 214      0275      2
: 215      0276      2      RETURN;
: 216      0277      2
: 217      0278      1      END;
  
```

! End of routine PASSWRITE_REALE_G

```

.TITLE PASSWRITE_REALE_G Write a G_floating in E forma
.IDENT \1-002\
.EXTRN PASSWRITE_REALE_G
.EXTRN PASSWRITEV_REALE_G
.EXTRN PASS$IO_HANDLER
.EXTRN PASS$VACIDATE_PFV
.EXTRN PASS$INIT_WRITE
.EXTRN PASS$SIGNAL, PASSK_NEGWIDDIG
.EXTRN PASS$CVT_G_T, PASSK_LINTOOLON
.EXTRN PASSSEND_WRITE
  
```

```

.PSECT _PASSCODE,NOWRT, SHR, PIC,2
  
```

```

                                01FC 00000
                                .ENTRY PASSWRITE_REALE_G, Save R2,R3,R4,R5,R6,R7,- ; 0144
                                R8
                                MOVAB PASS$SIGNAL, R8
                                SUBL2 #16, SP
                                CLRQ ERROR_ADDR ; 0197
                                CLRL PFV_ADDR
                                MOVAL 4$, -(FP)
                                CMPB (AP), #5 ; 0217
                                BLSSU 1$
                                MOVL ERROR, ERROR_ADDR ; 0219
                                MOVL PFV, R6 ; 0221
                                MOVL R6, PFV_ADDR
                                JSB PASS$VACIDATE_PFV ; 0227
                                MOVL #1, UNWIND_ACT ; 0233
                                JSB PASS$INIT_WRITE ; 0239
                                MOVL TOTAL_WIDTH, FIELD_WIDTH ; 0246
                                BGEQ 2$ ; 0247
                                CLRL -(SP) ; 0249
                                1$:
                                58 0000000G 00 9E 00002
                                5E          04 AE 7C 0000C
                                0C          0C AE 94 0000F
                                6D          0067 CF DE 00012
                                05          6C 91 00017
                                04 AE          14 AC D0 0001C
                                56          04 AC D0 00021 1$:
                                0C AE          56 D0 00025
                                08 AE 00000000G 00 16 00029
                                AE          01 D0 0002F
                                08 AE 00000000G 00 16 00033
                                6E          10 AC D0 00039
                                0A 18 0003D
                                7E D4 0003F
  
```

	7E	00G	8F	9A	00041	MOVZBL	#PASSK NEGWIDDIG, -(SP)		
	68		02	FB	00045	CALLS	#2, PASS\$SIGNAL		
				04	00048	RET			
52	F0	A7	EC	A7	C3 00049	2\$:	SUBL3	-20(FCB), -16(FCB), REMAINING_WIDTH	0250
				52	DD 0004F		PUSHL	REMAINING_WIDTH	0259
				04	AE 9F 00051		PUSHAB	FIELD_WIDTH	0256
			EC	A7	DD 00054		PUSHL	-20(FCB)	0257
			08	AC	9F 00057		PUSHAB	VALUE 0	0256
	00000000G	00		04	FB 0005A		CALLS	#4, PASS\$CVT_G_T	
		0E		50	EB 00061		BLBS	R0, 3\$	
7E		6E		52	C3 00064		SUBL3	REMAINING_WIDTH, FIELD_WIDTH, -(SP)	0261
				01	DD 00068		PUSHL	#1	
		7E	00G	8F	9A 0006A		MOVZBL	#PASSK LINTOOLON, -(SP)	
		68		03	FB 0006E		CALLS	#3, PASS\$SIGNAL	
					04 00071		RET		
		EC	A7	6E	C0 00072	3\$:	ADDL2	FIELD_WIDTH, -20(FCB)	0267
				00	16 00076		JSB	PASS\$END_WRITE	0274
					04 0007C		RET		0278
					0000 0007D	4\$:	.WORD	Save nothing	0197
		50	08	AC	D0 0007F		MOVL	8(AP), R0	
		50	04	A0	D0 00083		MOVL	4(R0), R0	
			F4	A0	9F 00087		PUSHAB	ERROR_ADDR	
			F8	A0	9F 0008A		PUSHAB	UNWIND_ACT	
			FC	A0	9F 0008D		PUSHAB	PFV_ADDR	
				03	DD 00090		PUSHL	#3	
				5E	DD 00092		PUSHL	SP	
		7E	04	AC	7D 00094		MOVQ	4(AP), -(SP)	
	00000000G	00		03	FB 00098		CALLS	#3, PASS\$IO_HANDLER	
					04 0009F		RET		

: Routine Size: 160 bytes, Routine Base: _PASS\$CODE + 0000

: 218 0279 1
 : 219 0280 1 !<BLF/PAGE>


```

221 0281 1 %SBTTL 'PASSWRITEV REALE G - Write G_floating in E format to string'
222 0282 1 GLOBAL ROUTINE PASSWRITEV_REALE_G (
223 0283 1     MAX_LENGTH: WORD,                               ! Maximum length of string
224 0284 1     STRING_LINE: REF VECTOR [, WORD],          ! String to write to
225 0285 1     VALUE0,VALUE1,                             ! Value to write
226 0286 1     TOTAL_WIDTH: SIGNED,                       ! Total field width
227 0287 1     ERROR                                     ! Error unwind address
228 0288 1 ) : NOVALUE =
229 0289 1
230 0290 1 ++
231 0291 1 FUNCTIONAL DESCRIPTION:
232 0292 1
233 0293 1     This procedure writes a G_floating in exponential format
234 0294 1     to the specified string.
235 0295 1
236 0296 1 CALLING SEQUENCE:
237 0297 1
238 0298 1     CALL PASSWRITEV_REALE_G (MAX_LENGTH.rw.v, STRING_LINE.wvt.r,
239 0299 1     VALUE.rg.v, TOTAL_WIDTH.r[v [, ERROR.j.r])
240 0300 1
241 0301 1 FORMAL PARAMETERS:
242 0302 1
243 0303 1     MAX_LENGTH      - The maximum length of STRING_LINE.
244 0304 1
245 0305 1     STRING_LINE    - A varying string to which the output will be appended.
246 0306 1
247 0307 1     VALUE          - The value to write. Note that the G_floating value
248 0308 1                   is passed by immediate value in two argument list
249 0309 1                   entries.
250 0310 1
251 0311 1     TOTAL_WIDTH    - The width of the field to write.
252 0312 1
253 0313 1     ERROR          - Optional. If specified, the address to unwind to
254 0314 1                   in case of an error.
255 0315 1
256 0316 1 IMPLICIT INPUTS:
257 0317 1
258 0318 1     NONE
259 0319 1
260 0320 1 IMPLICIT OUTPUTS:
261 0321 1
262 0322 1     NONE
263 0323 1
264 0324 1 ROUTINE VALUE:
265 0325 1
266 0326 1     NONE
267 0327 1
268 0328 1 SIDE EFFECTS:
269 0329 1
270 0330 1     NONE
271 0331 1
272 0332 1 SIGNALLED ERRORS:
273 0333 1
274 0334 1     See PASSWRITE_REALE_G
275 0335 1
276 0336 1 --
277 0337 1

```

```

278 0338 2 BEGIN
279 0339 2
280 0340 2 LOCAL
281 0341 2 PFV: $PASSPFV FILE VARIABLE, ! Pascal File Variable
282 0342 2 ARG_LIST: VECTOR [5, LONG], ! Argument list
283 0343 2 PFV_ADDR: VOLATILE, ! Enable argument
284 0344 2 UNWIND_ACT: VOLATILE, ! Enable argument
285 0345 2 ERROR_ADDR: VOLATILE; ! Enable argument
286 0346 2
287 0347 2 BUILTIN
288 0348 2 ACTUALCOUNT; ! Count of arguments
289 0349 2
290 0350 2 ENABLE
291 0351 2 PASS$IO_HANDLER (PFV_ADDR, UNWIND_ACT, ERROR_ADDR); ! Enable error handler
292 0352 2
293 0353 2 !+
294 0354 2 ! Get ERROR parameter, if present.
295 0355 2 !-
296 0356 2
297 0357 2 IF ACTUALCOUNT () GEQU 6
298 0358 2 THEN
299 0359 2 ERROR_ADDR = .ERROR; ! Set unwind address
300 0360 2
301 0361 2 PFV_ADDR = PFV [PFV$R_PFV]; ! Set PFV address
302 0362 2
303 0363 2 !+
304 0364 2 ! Set up ARG_LIST.
305 0365 2 !-
306 0366 2
307 0367 2 ARG_LIST [0] = 4; ! Four arguments
308 0368 2 ARG_LIST [1] = PFV [PFV$R_PFV]; ! PFV address
309 0369 2 ARG_LIST [2] = .VALUE0; ! Value to write
310 0370 2 ARG_LIST [3] = .VALUE1; !
311 0371 2 ARG_LIST [4] = .TOTAL_WIDTH; ! Field width
312 0372 2
313 0373 2 !+
314 0374 2 ! Call PASS$DO_WRITEV to do the work, giving it the address of
315 0375 2 ! PASSWRITE_REALE_G to call.
316 0376 2 !-
317 0377 2
318 0378 2 PASS$DO_WRITEV (PFV [PFV$R_PFV], .MAX_LENGTH, STRING_LINE [0], ARG_LIST,
319 0379 2 PASSWRITE_REALE_G);
320 0380 2
321 0381 2 RETURN;
322 0382 2
323 0383 1 END; ! End of routine PASSWRITEV_REALE_G
    
```

				.EXTRN	PASS\$DO_WRITEV	
			007C 0000	.ENTRY	PASSWRITEV_REALE_G, Save R2,R3,R4,R5,R6	: 0282
5E		2C	C2 00002	SUBL2	#44, SP	
		7E	D4 00005	CLRL	ERROR_ADDR	: 0338
	04	AE	7C 00007	CLRQ	UNWIND_ACT	
6D	003E	CF	DE 0000A	MOVAL	2\$, (FP)	
06		6C	91 0000F	CMPB	(AP), #6	: 0357

			04	1F	00012		BLSSU	1\$		
	6E	18	AC	DO	00014		MOVL	ERROR, ERROR_ADDR	0359	
08	AE	20	AE	9E	00018	1\$:	MOVAB	PFV, PFV_ADDR	0361	
0C	AE		04	DO	0001D		MOVL	#4, ARG_LIST	0367	
10	AE	20	AE	9E	00021		MOVAB	PFV, ARG_LIST+4	0368	
14	AE	0C	AC	7D	00026		MOVQ	VALUE0, ARG_LIST+8	0369	
1C	AE	14	AC	DO	0002B		MOVL	TOTAL_WIDTH, ARG_LIST+16	0371	
	55	FF2C	CF	9E	00030		MOVAB	PASSWRITE_REALE_G, R5	0378	
	54	0C	AE	9E	00035		MOVAB	ARG_LIST, R4		
	56	20	AE	9E	00039		MOVAB	PFV, R6		
	53	08	AC	DO	0003D		MOVL	STRING_LINE, R3		
	52	04	AC	3C	00041		MOVZWL	MAX_LENGTH, R2		
		00000000G	00	16	00045		JSB	PASS\$DO_WRITEV		
				04	0004B		RET		0383	
				0000	0004C	2\$:	.WORD	Save nothing	0338	
	50	08	AC	DO	0004E		MOVL	8(AP), R0		
	50	04	A0	DO	00052		MOVL	4(R0), R0		
			D0	A0	9F		PUSHAB	ERROR_ADDR		
			D4	A0	9F		PUSHAB	UNWIND_ACT		
			D8	A0	9F		PUSHAB	PFV_ADDR		
				03	DD		PUSHL	#3		
				5E	DD		PUSHL	SP		
	7E	04	AC	7D	00063		MOVQ	4(AP), -(SP)		
	00000000G	00	03	FB	00067		CALLS	#3, PASS\$IO_HANDLER		
				04	0006E		RET			

: Routine Size: 111 bytes, Routine Base: _PASS\$CODE + 00A0

: 324 0384 1
 : 325 0385 1 !<BLF/PAGE>

```

: 327          0386 1 END                                ! End of module PASSWRITE_REAL_G
: 328          0387 1
: 329          0388 0 ELUDOM
    
```

PSECT SUMMARY

```

: Name                Bytes                Attributes
: _PASSCODE           271 NOVEC, NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)
    
```

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	0	0	581	00:01.0
_\$255\$DUA28:[PASRTL.OBJ]PASLIB.L32;1	427	97	22	33	00:00.4

COMMAND QUALIFIERS

```

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS$:PASWIREG/OBJ=OBJ$:PASWIREG MSRC$:PASWIREG/UPDATE=(ENH$:PASWIREG
: )
    
```

```

: 330          0389 0
: Size:         271 code + 0 data bytes
: Run Time:     00:07.2
: Elapsed Time: 00:19.4
: Lines/CPU Min: 3232
: Lexemes/CPU-Min: 12739
: Memory Used: 80 pages
: Compilation Complete
    
```

