


```

PPPPPPPP      AAAAAA      SSSSSSSS      FFFFFFFFFF      IIIIII      LL      EEEEEEEEEE      UU      UU      TTTTTTTTTT
PPPPPPPP      AAAAAA      SSSSSSSS      FFFFFFFFFF      IIIIII      LL      EEEEEEEEEE      UU      UU      TTTTTTTTTT
PP      PP      AA      AA      SS      FF      II      LL      EE      UU      UU      TT
PP      PP      AA      AA      SS      FF      II      LL      EE      UU      UU      TT
PP      PP      AA      AA      SS      FF      II      LL      EE      UU      UU      TT
PP      PP      AA      AA      SS      FF      II      LL      EE      UU      UU      TT
PPPPPPPP      AA      AA      SSSSSS      FFFFFFFF      II      LL      EEEEEEEE      UU      UU      TT
PPPPPPPP      AA      AA      SSSSSS      FFFFFFFF      II      LL      EEEEEEEE      UU      UU      TT
PP      AAAAAAAAAA      SS      FF      II      LL      EE      UU      UU      TT
PP      AAAAAAAAAA      SS      FF      II      LL      EE      UU      UU      TT
PP      AA      AA      SS      FF      II      LL      EE      UU      UU      TT
PP      AA      AA      SSSSSSSS      FF      IIIIII      LLLLLLLLLL      EEEEEEEEEE      UUUUUUUUUU      TT      ....
PP      AA      AA      SSSSSSSS      FF      IIIIII      LLLLLLLLLL      EEEEEEEEEE      UUUUUUUUUU      TT      ....

```

```

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

```

```

1 0001 0 MODULE PASSFILE_UTIL ( %TITLE, 'File manipulation utility procedures'
2 0002 0 IDENT = '1-005' ! File: PASFILEUT.B32 Edit: SBL1005
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 Utility procedures to manipulate the global list of files.
36 0036 1
37 0037 1 ENVIRONMENT: User mode - AST reentrant
38 0038 1
39 0039 1 AUTHOR: Steven B. Lionel, CREATION DATE: 1-April-1981
40 0040 1
41 0041 1 MODIFIED BY:
42 0042 1
43 0043 1 1-001 - Original. SBL 1-April-1981
44 0044 1 1-002 - Don't assume that PFV contains valid information in PASSCLOSE_LOCAL_R3.
45 0045 1 Use DO_CLOSE_HANDLER to display error messages from DO_CLOSE.
46 0046 1 SBL 28-Jun-1982
47 0047 1 1-003 - Set all PFV fields that are needed to close the file in PASSCLOSE_LOCAL.
48 0048 1 SBL 29-Jun-1982
49 0049 1 1-004 - Move FCB$STATUS to PFV$STATUS in PASSREMOVE_FILE.
50 0050 1 QAR FT3-2 - SBL 30-Aug-1982
51 0051 1 1-005 - Allow PASSREMOVE_FILE to be called without the queue having been
52 0052 1 initialized. This can occur if the first file opened in the program
53 0053 1 fails to open and the OPEN is unwound. SBL 10-Jan-1983
54 0054 1 --
55 0055 1
    
```

```

: 57      0056 1 %SBTTL 'Declarations'
: 58      0057 1
: 59      0058 1 : PROLOGUE DEFINITIONS:
: 60      0059 1 :
: 61      0060 1
: 62      0061 1 REQUIRE 'RTLIN:PASPROLOG';           . Linkages, externals, PSECTs, structures
: 63      0125 1
: 64      0126 1
: 65      0127 1 : TABLE OF CONTENTS:
: 66      0128 1 :
: 67      0129 1
: 68      0130 1 FORWARD ROUTINE
: 69      0131 1   PASS$ADD_FILE: NOVALUE,           : Add file to global list
: 70      0132 1   PASS$REMOVE_FILE: NOVALUE,       : Remove file from global list
: 71      0133 1   PASS$PROMPT_ALL: NOVALUE,         : Prompt on all enabled files
: 72      0134 1   PASS$PROMPT_FILE: JSB PROMPT_FILE NOVALUE, : Prompt on a file
: 73      0135 1   PASS$CLOSE_ALL: NOVALUE,         : Close all files
: 74      0136 1   PASS$CLOSE_LOCAL R3: JSB CLOSE_LOCAL NOVALUE, : Close all local files
: 75      0137 1   PASS$CLOSE_LOCAL: JSB_CCLOSE_LOCAL NOVALUE, : Internally callable
: 76      0138 1   DO_CLOSE: NOVALUE,               : Close a file
: 77      0139 1   DO_CLOSE_HANDLER,                : Handler for DO_CLOSE
: 78      0140 1   INITIALIZE_QUEUE: NOVALUE,       : Initialize FILE_QUEUE
: 79      0141 1   SERVICE_REQUEST: NOVALUE;        : Service remove request
: 80      0142 1
: 81      0143 1
: 82      0144 1 : MACROS:
: 83      0145 1
: 84      0146 1   NONE
: 85      0147 1
: 86      0148 1 : EQUATED SYMBOLS:
: 87      0149 1
: 88      0150 1   NONE
: 89      0151 1
: 90      0152 1 : FIELDS:
: 91      0153 1
: 92      0154 1   NONE
: 93      0155 1
: 94      0156 1 : OWN STORAGE:
: 95      0157 1
: 96      0158 1
: 97      0159 1 OWN
: 98      0160 1   FILE_QUEUE: VECTOR [2, LONG],      : Queue of FCBs
: 99      0161 1   REQUEST_LEVEL: INITIAL (-1),      : Reentrancy level
: 100     0162 1   QUEUE_INITIALIZED: INITIAL (0),   : True if queue initialized
: 101     0163 1   REMOVE_REQUESTED: INITIAL (0);    : Remove requested from AST level

```

```

103 0164 1 %SBTTL 'PASS$ADD FILE - Add file to queue'
104 0165 1 GLOBAL ROUTINE PASS$ADD FILE (
105 0166 1     FCB: REF $PASS$FCB_CONTROL_BLOCK
106 0167 1     ): NOVALUE =
107 0168 1
108 0169 1 :++
109 0170 1 : FUNCTIONAL DESCRIPTION:
110 0171 1 :
111 0172 1 :     Adds a file's FCB to the queue of files.
112 0173 1 :
113 0174 1 : CALLING SEQUENCE:
114 0175 1 :
115 0176 1 :     PASS$ADD_FILE (FCB.r.r)
116 0177 1 :
117 0178 1 : FORMAL PARAMETERS:
118 0179 1 :
119 0180 1 :     FCB             File Control Block for file
120 0181 1 :
121 0182 1 : IMPLICIT INPUTS:
122 0183 1 :
123 0184 1 :     FILE_QUEUE
124 0185 1 :     REQUEST_LEVEL
125 0186 1 :     QUEUE_INITIALIZED
126 0187 1 :     REMOVE_REQUESTED
127 0188 1 :
128 0189 1 : IMPLICIT OUTPUTS:
129 0190 1 :
130 0191 1 :     NONE
131 0192 1 :
132 0193 1 : COMPLETION STATUS:
133 0194 1 :
134 0195 1 :     NONE
135 0196 1 :
136 0197 1 : SIDE EFFECTS:
137 0198 1 :
138 0199 1 :     Inserts FCB onto head of FILE_QUEUE.
139 0200 1 :
140 0201 1 : SIGNALLED ERRORS:
141 0202 1 :
142 0203 1 :     NONE
143 0204 1 : --
144 0205 1 :
145 0206 2 : BEGIN
146 0207 2 :
147 0208 2 : BUILTIN
148 0209 2 :     INSQUE;
149 0210 2 :
150 0211 2 : :+
151 0212 2 : : Initialize the queue if necessary.
152 0213 2 : :-
153 0214 2 :
154 0215 2 : IF NOT .QUEUE_INITIALIZED
155 0216 2 : THEN
156 0217 2 :     INITIALIZE_QUEUE ();
157 0218 2 :
158 0219 2 : :+
159 0220 2 : : Increment REQUEST_LEVEL.

```

```

: 160      0221      2      !-
: 161      0222      2
: 162      0223      2      REQUEST_LEVEL = .REQUEST_LEVEL + 1;
: 163      0224      2
: 164      0225      2      !+
: 165      0226      2      ! Insert FCB onto FILE_QUEUE at head.
: 166      0227      2      !-
: 167      0228      2
: 168      0229      2      INSQUE (FCB [FCB$L_QUEUE_FLINK], FILE_QUEUE);
: 169      0230      2
: 170      0231      2      !+
: 171      0232      2      ! Mark the FCB as being on the queue.
: 172      0233      2      !-
: 173      0234      2
: 174      0235      2      FCB [FCB$V_ON_QUEUE] = 1;
: 175      0236      2
: 176      0237      2      !+
: 177      0238      2      ! Decrement REQUEST_LEVEL.
: 178      0239      2      !-
: 179      0240      2
: 180      0241      2      REQUEST_LEVEL = .REQUEST_LEVEL - 1;
: 181      0242      2
: 182      0243      2      !+
: 183      0244      2      ! If a remove request has been made, service it.
: 184      0245      2      !-
: 185      0246      2
: 186      0247      2      IF .REMOVE_REQUESTED
: 187      0248      2      THEN
: 188      0249      2          SERVICE_REQUEST ();
: 189      0250      2
: 190      0251      2      RETURN;
: 191      0252      2
: 192      0253      1      END;

```

! End of routine PASS\$ADD_FILE

.TITLE PASS\$FILE_UTIL File manipulation utility procedures

.IDENT \1-005\

.PSECT _PASS\$DATA,NOEXE, PIC,2

```

00000000 FILE_QUEUE:
.FFFFFFFF 00008 REQUEST_LEVEL:
00000000 0000C QUEUE_INITIALIZED:
00000000 00010 REMOVE_REQUESTED:

```

```

.EXTRN PASS$ADD_FILE, PASS$REMOVE_FILE
.EXTRN PASS$PROMPT_ALL
.EXTRN PASS$PROMPT_FILE
.EXTRN PASS$CLOSE_ALL, PASS$CLOSE_LOCAL_R3
.EXTRN PASS$CLOSE_LOCAL

```

.PSECT _PASS\$CODE,NOVRT, SHR, PIC,2

			0004	00000	.ENTRY	PASS\$ADD FILE, Save R2	:	0165
	52	00000000'	EF	9E 00002	MOVAB	REQUEST_LEVEL, R2	:	
	05	04	A2	E8 00009	BLBS	QUEUE_INITIALIZED, 1\$:	0215
0000V	CF		00	FB 0000D	CALLS	#0, INITIALIZE_QUEUE	:	0217
			62	D6 00012	INCL	REQUEST_LEVEL	:	0223
	50	04	AC	D0 00014	MOVL	FCB, R0	:	0229
F8	A2	BC	A0	0E 00018	INSQUE	-68(R0), FILE_QUEUE	:	
	50	04	AC	D0 0001D	MOVL	FCB, R0	:	0235
FE	A0		20	88 00021	BISB2	#32, -2(R0)	:	
			62	D7 00025	DECL	REQUEST_LEVEL	:	0241
	05	08	A2	E9 00027	BLBC	REMOVE_REQUESTED, 2\$:	0247
0000V	CF		00	FB 0002B	CALLS	#0, SERVICE_REQUEST	:	0249
			04	00030	RET		:	0253

: Routine Size: 49 bytes, Routine Base: _PASS\$CODE + 0000

: 193 0254 1
 : 194 0255 1 !<BLF/PAGE>

```
196 0256 1 %SBTTL 'PASS$REMOVE FILE - Remove file from queue'  
197 0257 1 GLOBAL ROUTINE PASS$REMOVE_FILE (  
198 0258 1     FCB: REF $PASS$FCB_CONTROL_BLOCK  
199 0259 1     ): NOVALUE =  
200 0260 1  
201 0261 1 !+  
202 0262 1 ! FUNCTIONAL DESCRIPTION:  
203 0263 1  
204 0264 1     Remove a file's FCB from the queue of files.  
205 0265 1  
206 0266 1 ! CALLING SEQUENCE:  
207 0267 1  
208 0268 1     PASS$REMOVE_FILE (FCB.r.r)  
209 0269 1  
210 0270 1 ! FORMAL PARAMETERS:  
211 0271 1  
212 0272 1     FCB           File Control Block for file  
213 0273 1  
214 0274 1 ! IMPLICIT INPUTS:  
215 0275 1  
216 0276 1     FILE_QUEUE  
217 0277 1     REQUEST_LEVEL  
218 0278 1     QUEUE_INITIALIZED  
219 0279 1     REMOVE_REQUESTED  
220 0280 1  
221 0281 1 ! IMPLICIT OUTPUTS:  
222 0282 1  
223 0283 1     FILE_QUEUE  
224 0284 1     REQUEST_LEVEL  
225 0285 1     QUEUE_INITIALIZED  
226 0286 1     REMOVE_REQUESTED  
227 0287 1     FCB [FCB$V_DEALLOC]  
228 0288 1  
229 0289 1 ! COMPLETION STATUS:  
230 0290 1  
231 0291 1     NONE  
232 0292 1  
233 0293 1 ! SIDE EFFECTS:  
234 0294 1  
235 0295 1     Removes FCB from FILE_QUEUE or requests deallocation.  
236 0296 1  
237 0297 1 ! SIGNALLED ERRORS:  
238 0298 1  
239 0299 1     NONE  
240 0300 1 !--  
241 0301 1  
242 0302 2     BEGIN  
243 0303 2  
244 0304 2     BUILTIN  
245 0305 2     REMOVE;  
246 0306 2  
247 0307 2     !+  
248 0308 2     ! Initialize the queue if necessary.  
249 0309 2     !-  
250 0310 2  
251 0311 2     IF NOT .QUEUE_INITIALIZED  
252 0312 2     THEN
```



```

253 0313 2      INITIALIZE_QUEUE ();
254 0314 2
255 0315 2      !+
256 0316 2      !- Invalideate FCB pointer in PFV.
257 0317 2
258 0318 2
259 0319 2      BEGIN
260 0320 2      LOCAL
261 0321 2      PFV: REF $PASS$PFV_FILE_VARIABLE;
262 0322 2      PFV = .FCB [FCB$A_PFV];
263 0323 2      PFV [PFV$V_FCB_VA[ID]] = 0;
264 0324 2      PFV [PFV$V_STATUS] = .FCB [FCB$V_STATUS]; ! OverLays PFV$A_FCB
265 0325 2      END;
266 0326 2
267 0327 2
268 0328 2      !+
269 0329 2      !- If the FCB is not on the queue then simply free the
270 0330 2      !- storage and return.
271 0331 2
272 0332 2
273 0333 2      IF NOT .FCB [FCB$V_ON_QUEUE]
274 0334 2      THEN
275 0335 2      BEGIN
276 0336 2      LOCAL
277 0337 2      BLOCK_ADDR; ! Address of allocated block
278 0338 2      BLOCK_ADDR = FCB [FCB$V_QUEUE_FLINK];
279 0339 2      PASS$FREE_VM (PASS$FILE_DYN_BLN, BLOCK_ADDR);
280 0340 2      END
281 0341 2
282 0342 2      ELSE
283 0343 2
284 0344 2      BEGIN
285 0345 2      !+
286 0346 2      !- Increment REQUEST_LEVEL. If we are at level zero, then we can do the
287 0347 2      !- REMQUE directly, so do it and free the storage.
288 0348 2      !- Otherwise set the DEALLOC bit in the FCB and set REMOVE_REQUESTED.
289 0349 2      !-
290 0350 2
291 0351 2      IF (REQUEST_LEVEL=.REQUEST_LEVEL+1) EQL 0
292 0352 2      THEN
293 0353 2      BEGIN
294 0354 2      LOCAL
295 0355 2      ITEM_ADDR; ! Output from REMQUE
296 0356 2      REMQUE (FCB [FCB$V_QUEUE_FLINK], ITEM_ADDR);
297 0357 2      FCB [FCB$V_ON_QUEUE] = 0;
298 0358 2      PASS$FREE_VM (PASS$FILE_DYN_BLN, ITEM_ADDR);
299 0359 2      END
300 0360 2      ELSE
301 0361 2      BEGIN
302 0362 2      FCB [FCB$V_DEALLOC] = 1;
303 0363 2      REMOVE_REQUESTED = 1;
304 0364 2      END;
305 0365 2
306 0366 2      !+
307 0367 2      !- Decrement REQUEST_LEVEL.
308 0368 2
309 0369 2

```

```

: 310      0370 3      REQUEST_LEVEL = .REQUEST_LEVEL - 1;
: 311      0371 3
: 312      0372 3      END;
: 313      0373 3
: 314      0374 3
: 315      0375 3      |* If a remove request has been made, service it.
: 316      0376 3      |*
: 317      0377 3
: 318      0378 3      IF .REMOVE_REQUESTED
: 319      0379 3      THEN
: 320      0380 3          SERVICE_REQUEST ();
: 321      0381 3
: 322      0382 3      RETURN;
: 323      0383 3
: 324      0384 1      END;

```

! End of routine PASS\$REMOVE_FILE

				.EXTRN PASS\$FREE_VM					
				001C	00000	.ENTRY	PASS\$REMOVE FILE, Save R2,R3,R4	: 0257	
	54	00000000G	00	9E	00002	MOVAB	PASS\$FREE VM, R4	:	
	53	00000000'	EF	9E	00009	MOVAB	REQUEST_LEVEL, R3	:	
	5E		08	C2	00010	SUBL2	#8, SP	:	
	05	04	A3	E8	00013	BLBS	QUEUE INITIALIZED, 1\$: 0311	
	0000V		00	FB	00017	CALLS	#0, INITIALIZE_QUEUE	: 0313	
	52	04	AC	D0	0001C	1\$:	MOVL	FCB, R2	: 0322
	50	DC	A2	D0	00020	MOVL	-36(R2), PFV	:	
	07	A0	40	8F	8A	00024	BICB2	#64, 7(PFV)	: 0323
	0C	A0	D4	A2	D0	00029	MOVL	-44(R2), 12(PFV)	: 0324
10	FE	A2	05	E0	0002E	BBS	#5, -2(R2), 2\$: 0323	
	6E	BC	A2	9E	00033	MOVAB	-68(R2), BLOCK_ADDR	: 0338	
			5E	DD	00037	PUSHL	SP	: 0339	
	7E	0138	8F	3C	00039	MOVZWL	#312, -(SP)	:	
	64		02	FB	0003E	CALLS	#2, PASS\$FREE_VM	:	
			2B	11	00041	BRB	5\$: 0333	
			63	D6	00043	2\$:	INCL	REQUEST_LEVEL	: 0351
			1D	12	00045	BNEQ	3\$:	
	52	BD	A2	9E	00047	MOVAB	-67(R2), R2	: 0356	
	04	AE	72	0F	0004B	REMQUE	-(R2), ITEM_ADDR	:	
	50	04	AC	D0	0004F	MOVL	FCB, R0	: 0357	
	FE	A0	20	8A	00053	BICB2	#32, -2(R0)	:	
			04	AE	9F	00057	PUSHAB	ITEM_ADDR	: 0358
	7E	0138	8F	3C	0005A	MOVZWL	#312, -(SP)	:	
	64		02	FB	0005F	CALLS	#2, PASS\$FREE_VM	:	
			08	11	00062	BRB	4\$: 0351	
	FE	A2	02	88	00064	3\$:	BISB2	#2, -2(R2)	: 0362
	08	A3	01	D0	00068	MOVL	#1, REMOVE_REQUESTED	: 0363	
			63	D7	0006C	4\$:	DECL	REQUEST_LEVEL	: 0370
	05	08	A3	E9	0006E	5\$:	BLBC	REMOVE_REQUESTED, 6\$: 0378
	0000V	CF	00	FB	00072	CALLS	#0, SERVICE_REQUEST	: 0380	
			04	00077	6\$:	RET		: 0384	

; Routine Size: 120 bytes, Routine Base: _PASS\$CODE + 0031

; 325 0385 1

PASSFILE_UTIL File manipulation utility procedures
1-005 PASSREMOVE_FILE - Remove file from queue

: 326

0386 1 !<BLF/PAGE>

1 7
16-Sep-1984 01:33:01
14-Sep-1984 12:51:29

VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32;1

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(4)

PA
1-

```

328 0387 1 %SBTTL 'PASS$PROMPT_ALL - Prompt on all prompt-enabled files'
329 0388 1 GLOBAL ROUTINE PASS$PROMPT_ALL
330 0389 1 : NOVALUE =
331 0390 1
332 0391 1 !+
333 0392 1 ! FUNCTIONAL DESCRIPTION:
334 0393 1
335 0394 1     Finds all files for which prompting is enabled and which have
336 0395 1     partial lines and writes the partial lines.
337 0396 1
338 0397 1 CALLING SEQUENCE:
339 0398 1
340 0399 1     PASS$PROMPT_ALL ( )
341 0400 1
342 0401 1 FORMAL PARAMETERS:
343 0402 1
344 0403 1     NONE
345 0404 1
346 0405 1 IMPLICIT INPUTS:
347 0406 1
348 0407 1     FILE QUEUE
349 0408 1     REQUEST LEVEL
350 0409 1     QUEUE_INITIALIZED
351 0410 1     REMOVE_REQUESTED
352 0411 1
353 0412 1 IMPLICIT OUTPUTS:
354 0413 1
355 0414 1     NONE
356 0415 1
357 0416 1 COMPLETION STATUS:
358 0417 1
359 0418 1     NONE
360 0419 1
361 0420 1 SIDE EFFECTS:
362 0421 1
363 0422 1
364 0423 1 SIGNALLED ERRORS:
365 0424 1
366 0425 1 --
367 0426 1
368 0427 2 BEGIN
369 0428 2
370 0429 2 LOCAL
371 0430 2     FCB: REF $PASS$FCB_CONTROL_BLOCK;           ! File control block
372 0431 2
373 0432 2 BIND
374 0433 2     RAB = FCB: REF BLOCK [, BYTE];           ! RAB is FCB
375 0434 2
376 0435 2 BUILTIN
377 0436 2     TESTBITCS;
378 0437 2
379 0438 2 !+
380 0439 2 ! If queue is not initialize, bugcheck.
381 0440 2 !-
382 0441 2
383 0442 2 IF NOT .QUEUE_INITIALIZED
384 0443 2 THEN

```



```

466 0524 1 %SBTTL 'PASS$PROMPT_FILE - Prompt on a prompt-enabled files'
467 0525 1 GLOBAL ROUTINE PASS$PROMPT_FILE (
468 0526 1     PFV: REF $PASS$PFV_FILE_VARIABLE,           ! Pascal File Variable
469 0527 1     FCB: REF $PASS$FCB_CONTROL_BLOCK         ! File Control Block
470 0528 1 ) : JSR_PROMPT_FILE NOVALOE =
471 0529 1
472 0530 1 +-+
473 0531 1 FUNCTIONAL DESCRIPTION:
474 0532 1     Performs a partial-line write on a prompt-enabled file.
475 0533 1
476 0534 1 CALLING SEQUENCE:
477 0535 1     PASS$PROMPT_FILE (PFV.mr.r, FCB.mr.r)
478 0536 1
479 0537 1 FORMAL PARAMETERS:
480 0538 1
481 0539 1     PFV           - The Pascal File Variable for the file.
482 0540 1
483 0541 1     FCB           - The File Control Block for the file.
484 0542 1
485 0543 1 IMPLICIT INPUTS:
486 0544 1
487 0545 1     It is assumed that the file is a prompt-enabled textfile which
488 0546 1     is locked and in Generation mode.
489 0547 1
490 0548 1 IMPLICIT OUTPUTS:
491 0549 1
492 0550 1     NONE
493 0551 1
494 0552 1 COMPLETION STATUS:
495 0553 1
496 0554 1     NONE
497 0555 1
498 0556 1 SIDE EFFECTS:
499 0557 1
500 0558 1     A partial line is written to the file, with the cursor left at
501 0559 1     the end of the text written.
502 0560 1
503 0561 1 SIGNALLED ERRORS:
504 0562 1
505 0563 1     ERRDURPRO - error during prompting
506 0564 1
507 0565 1 --
508 0566 1
509 0567 1 BEGIN
510 0568 2
511 0569 2 LOCAL
512 0570 2     CHARS_IN_LINE;           ! Number of characters in the line
513 0571 2
514 0572 2 BIND
515 0573 2     RAB = FCB: REF BLOCK [, BYTE];   ! RAB is FCB
516 0574 2
517 0575 2 +-+
518 0576 2     If the record has any characters in it, write the partial line.
519 0577 2
520 0578 2 --
521 0579 2
522 0580 2     CHARS_IN_LINE = .FCB [FCB$A_RECORD_CUR] - .FCB [FCB$A_RECORD_BEG];

```



```

: 523      0581      2      IF .CHARS_IN_LINE NEQ 0
: 524      0582      2      THEN
: 525      0583      2      BEGIN
: 526      0584      2      |
: 527      0585      2      | + Set up record pointer in RAB for $PUT.
: 528      0586      2      | -
: 529      0587      2      |
: 530      0588      2      RAB [RAB$L_RBF] = .FCB [FCB$A_RECORD_BEG];
: 531      0589      2      RAB [RAB$W_RSZ] = .CHARS_IN_LINE;
: 532      0590      2      |
: 533      0591      2      | +
: 534      0592      2      | Set carriagecontrol depending on whether a partial
: 535      0593      2      | line has been previously written.
: 536      0594      2      | -
: 537      0595      2      |
: 538      0596      2      IF .FCB [FCB$V_PARTIAL_LINE]
: 539      0597      2      THEN
: 540      0598      2      FCB [FCB$W_PROMPT_CC] = FCB$K_CC_NULL      ! Nothing before, nothing
: 541      0599      2      ELSE
: 542      0600      2      FCB [FCB$W_PROMPT_CC] = FCB$K_CC_LFNL;      ! LF before, nothing after
: 543      0601      2      |
: 544      0602      2      | +
: 545      0603      2      | Do the $PUT and check for errors.
: 546      0604      2      | -
: 547      0605      2      |
: 548      0606      2      IF NOT $PASS$RMS_OP ($PUT (RAB=.RAB))
: 549      0607      2      THEN
: 550      0608      2      $PASS$IO_ERROR (PASS$ERRDURPRO);
: 551      0609      2      |
: 552      0610      2      | +
: 553      0611      2      | Reset the record buffer.
: 554      0612      2      | -
: 555      0613      2      |
: 556      0614      2      FCB [FCB$A_RECORD_CUR] = .FCB [FCB$A_RECORD_BEG];
: 557      0615      2      FCB [FCB$V_PARTIAL_LINE] = 1;
: 558      0616      2      |
: 559      0617      2      END;
: 560      0618      2      |
: 561      0619      2      RETURN;
: 562      0620      2      |
: 563      0621      1      END;

```

! End of routine PASS\$PROMPT_FILE

.EXTRN SYSS\$PUT, PASS\$\$SIGNAL
.EXTRN PASS\$K_ERRDURPRO

50	EC	A7	E8	A7	C3 0000	PASS\$PROMPT_FILE::		
						SUB[3	-24(FCB), -20(FCB), CHARS_IN_LINE	: 0580
				49	13 00006	BEQL	5\$: 0581
	28	A7	E8	A7	D0 00008	MOVL	-24(FCB), 40(FCB)	: 0588
	22	A7		50	B0 0000D	MOVW	CHARS_IN_LINE, 34(FCB)	: 0589
			FD	A7	95 00011	TSTB	-3(FCB)	: 0596
				05	18 00014	BGEQ	1\$: 0598
			FA	A7	B4 00016	CLRW	-6(FCB)	: 0598
				04	11 00019	BRB	2\$: 0600
	FA	A7		01	B0 0001B 1\$:	MOVW	#1, -6(FCB)	: 0600


```

: 567 0624 1 %SBTTL 'PASS$CLOSE_ALL - Close all open files'
: 568 0625 1 GLOBAL ROUTINE PASS$CLOSE_ALL
: 569 0626 1 : NOVALUE =
: 570 0627 1
: 571 0628 1 +-
: 572 0629 1 FUNCTIONAL DESCRIPTION:
: 573 0630 1
: 574 0631 1 Closes all open files. This procedure is called from the exit
: 575 0632 1 handler declared by PASS$OPEN.
: 576 0633 1
: 577 0634 1 CALLING SEQUENCE:
: 578 0635 1
: 579 0636 1 PASS$CLOSE_ALL ()
: 580 0637 1
: 581 0638 1 FORMAL PARAMETERS:
: 582 0639 1
: 583 0640 1 NONE
: 584 0641 1
: 585 0642 1 IMPLICIT INPUTS:
: 586 0643 1
: 587 0644 1 FILE_QUEUE
: 588 0645 1
: 589 0646 1 IMPLICIT OUTPUTS:
: 590 0647 1
: 591 0648 1 NONE
: 592 0649 1
: 593 0650 1 COMPLETION STATUS:
: 594 0651 1
: 595 0652 1 NONE
: 596 0653 1
: 597 0654 1 SIDE EFFECTS:
: 598 0655 1
: 599 0656 1 Closes all open files, and removes their control blocks
: 600 0657 1 from the queue.
: 601 0658 1
: 602 0659 1 SIGNALLED ERRORS:
: 603 0660 1
: 604 0661 1 NONE
: 605 0662 1 --
: 606 0663 1
: 607 0664 2 BEGIN
: 608 0665 2
: 609 0666 2 LOCAL
: 610 0667 2 FCB: REF $PASS$FCB_CONTROL_BLOCK, ! File control block
: 611 0668 2 DUMMY_PV: $PASS$PV_FILE_VARIABLE, ! Dummy PV for local use
: 612 0669 2 AST_STATUS; ! Status from $SETAST
: 613 0670 2
: 614 0671 2 BUILTIN
: 615 0672 2 REMQUE;
: 616 0673 2
: 617 0674 2 +-
: 618 0675 2 ! If queue not initialized, nothing to close.
: 619 0676 2 !-
: 620 0677 2
: 621 0678 2 IF NOT .QUEUE_INITIALIZED
: 622 0679 2 THEN
: 623 0680 2 RETURN;

```


		53		50	DO	0001B		MOVL	R0, AST_STATUS		
		52	00000000'	FF	OF	0001E	1\$:	RE*QUE	@FILE_QUEUE, FCB	:	0699
				20	1D	00025		RVS	2\$:	
		52	44	A2	9E	00027		MOVAB	68(R2), FCB	:	0701
EE	FE	A2		01	E0	0002B		BBS	#1, -2(FCB), 1\$:	0702
	OC	AE		52	DO	00030		MOVL	FCB, DUMMY_PV+12	:	0708
	08	AE	E4	A2	DO	00034		MOVL	-28(FCB), DUMMY_PV+8	:	0709
	07	AE	40	8F	88	00039		BISB2	#64, DUMMY_PV+7	:	0710
				5E	DD	0003E		PUSHL	SP	:	0711
	0000V	CF		01	FB	00040		CALLS	#1, DO_CLOSE	:	
				D7	11	00045		BRB	1\$:	0699
		09		53	D1	00047	2\$:	CMPL	AST_STATUS, #9	:	0719
				05	12	0004A		BNEQ	3\$:	
				01	DD	0004C		PUSHL	#1	:	0721
		64		01	FB	0004E		CALLS	#1, SYS\$SETAST	:	
				04	00051	3\$:		RET		:	0725

: Routine Size: 82 bytes, Routine Base: _PASS\$CODE + 0165

: 669 0726 1
: 670 0727 1 !<BLF/PAGE>

```

672 0728 1 %SBTTL 'PASS$CLOSE_LOCAL_R3 - Close local files'
673 0729 1 GLOBAL ROUTINE PASS$CLOSE_LOCAL_R3
674 0730 1 : JSB_CLOSE_LOCAL NOVALUE=
675 0731 1
676 0732 1 ++
677 0733 1 FUNCTIONAL DESCRIPTION:
678 0734 1
679 0735 1 Closes all open files which were declared local by our caller.
680 0736 1
681 0737 1 CALLING SEQUENCE:
682 0738 1
683 0739 1 JSB PASS$CLOSE_LOCAL_R3
684 0740 1
685 0741 1 FORMAL PARAMETERS:
686 0742 1
687 0743 1 NONE
688 0744 1
689 0745 1 IMPLICIT INPUTS:
690 0746 1
691 0747 1 Current FP (Caller's)
692 0748 1
693 0749 1 IMPLICIT OUTPUTS:
694 0750 1
695 0751 1 NONE
696 0752 1
697 0753 1 COMPLETION STATUS:
698 0754 1
699 0755 1 NONE
700 0756 1
701 0757 1 SIDE EFFECTS:
702 0758 1
703 0759 1 Preserves registers 0 and 1.
704 0760 1 See PASS$CLOSE_LOCAL
705 0761 1
706 0762 1 SIGNALLED ERRORS:
707 0763 1
708 0764 1 NONE
709 0765 1 --
710 0766 1
711 0767 2 BEGIN
712 0768 2
713 0769 2 BUILTIN
714 0770 2 FP;
715 0771 2
716 0772 2
717 0773 2 | Call PASS$CLOSE_LOCAL with one argument, the current FP. This
718 0774 2 | will get pushed on the stack.
719 0775 2 |
720 0776 2
721 0777 2 PASS$CLOSE_LOCAL (.FP);
722 0778 2
723 0779 2 RETURN;
724 0780 2
725 0781 1 END;

```

! End of routine PASS\$CLOSE_LOCAL_R3


```

729 0784 1 %SBTTL 'PASS$CLOSE_LOCAL - Close local files'
730 0785 1 GLOBAL ROUTINE PASS$CLOSE_LOCAL (PROCEDURE_FP)
731 0786 1 : JSB_CLOSE_LOCAL NOVALUE =
732 0787 1
733 0788 1 !+
734 0789 1 FUNCTIONAL DESCRIPTION:
735 0790 1
736 0791 1 Closes all open files which were declared local by our caller.
737 0792 1
738 0793 1 CALLING SEQUENCE:
739 0794 1
740 0795 1 JSB PASS$CLOSE_LOCAL (PROCEDURE_FP.r|u.v)
741 0796 1
742 0797 1 FORMAL PARAMETERS:
743 0798 1
744 0799 1 PROCEDURE_FP - This is the frame pointer of the procedure for
745 0800 1 which we are closing its local files. This
746 0801 1 value is passed on the stack.
747 0802 1
748 0803 1 IMPLICIT INPUTS:
749 0804 1
750 0805 1 Our SP
751 0806 1 FILE_QUEUE
752 0807 1 REQUEST_LEVEL
753 0808 1 QUEUE_INITIALIZED
754 0809 1 REMOVE_REQUESTED
755 0810 1
756 0811 1 IMPLICIT OUTPUTS:
757 0812 1
758 0813 1 NONE
759 0814 1
760 0815 1 COMPLETION STATUS:
761 0816 1
762 0817 1 NONE
763 0818 1
764 0819 1 SIDE EFFECTS:
765 0820 1
766 0821 1 Closes all open files whose PFVs are between PROCEDURE_FP and SP
767 0822 1 (i.e. declared locally in our caller's procedure).
768 0823 1
769 0824 1 SIGNALLED ERRORS:
770 0825 1
771 0826 1 NONE
772 0827 1 --
773 0828 1
774 0829 2 BEGIN
775 0830 2
776 0831 2 LOCAL
777 0832 2 FCB: REF $PASS$FCB_CONTROL_BLOCK, ! File control block
778 0833 2 NEXT_FCB, ! Next FCB in QUEUE
779 0834 2 REMOVE_OK; ! TRUE if ok to do REMQUEs
780 0835 2
781 0836 2 BUILTIN
782 0837 2 REMOVE,
783 0838 2 SP;
784 0839 2
785 0840 2 !+

```



```

786      0841 2      ! If queue not initialized, nothing to close.
787      0842 2      !-
788      0843 2
789      0844 2      IF NOT .QUEUE_INITIALIZED
790      0845 2      THEN
791      0846 2          RETURN;
792      0847 2
793      0848 2      !+
794      0849 2      ! Increment REQUEST_LEVEL and set REMQUE_OK appropriately.
795      0850 2      !-
796      0851 2
797      0852 2      IF (REQUEST_LEVEL = .REQUEST_LEVEL + 1) NEQ 0
798      0853 2      THEN
799      0854 2          REMQUE_OK = 0
800      0855 2      ELSE
801      0856 2          REMQUE_OK = 1;
802      0857 2
803      0858 2      !+
804      0859 2      ! Get the first FCB from the queue.
805      0860 2      !-
806      0861 2
807      0862 2      FCB = .FILE_QUEUE [0];          ! Forward link
808      0863 2
809      0864 2      !+
810      0865 2      ! While there are files left, look for local files to close.
811      0866 2      !-
812      0867 2
813      0868 2      WHILE (FCB [FCBSR_FCB] NEQA FILE_QUEUE) DO ! Stop when we get back to header
814      0869 3          BEGIN
815      0870 3              FCB = FCB [FCBSR_FCB] + FCBSK_BLN;          ! Get correct FCB origin
816      0871 3              NEXT_FCB = .FCB [FCBSL_QUEUE_FLINK];      ! Next file in queue
817      0872 3              IF NOT .FCB [FCBSV_DEACLOC] AND NOT .FCB [FCBSV_STATIC]
818      0873 3                  THEN
819      0874 4                      BEGIN
820      0875 4                          LOCAL
821      0876 4                              PFV: REF $PASS$PFV_FILE_VARIABLE;
822      0877 4                              PFV = .FCB [FCBSA_PFV];      ! Get PFV
823      0878 4                              IF PFV [PFVSR_PFV] LSSA .PROCEDURE_FP AND PFV [PFVSR_PFV] GTRA .SP
824      0879 4                                  THEN
825      0880 5                                      BEGIN
826      0881 5                                          !+
827      0882 5                                          ! We have a local file. We can't be guaranteed that the
828      0883 5                                          ! contents of the PFV are valid, so set the necessary items
829      0884 5                                          ! here. Close the file.
830      0885 5                                          !-
831      0886 5
832      0887 5                                          PFV [PFVSW_FLAGS] = 0;
833      0888 5                                          PFV [PFVSV_LOCK] = 1;
834      0889 5                                          PFV [PFVSV_FCB_VALID] = 1;
835      0890 5                                          PFV [PFVSA_FCB] = FCB [FCBSR_FCB];
836      0891 5                                          PFV [PFVSA_PFD] = .FCB [FCBSA_PFD];
837      0892 5                                          DO_CLOSE (PFV [PFVSR_PFV]);
838      0893 5
839      0894 5                                          !+
840      0895 5                                          ! Remove the file from the queue. This will either be
841      0896 5                                          ! a REMQUE or a request to remove.
842      0897 5                                          !-

```

```

843 0898 S
844 0899 S
845 0900 S
846 0901 6
847 0902 6
848 0903 6
849 0904 6
850 0905 6
851 0906 6
852 0907 S
853 0908 6
854 0909 6
855 0910 6
856 0911 S
857 0912 4
858 0913 W
859 0914 W
860 0915 W
861 0916 W
862 0917 W
863 0918 N
864 0919 N
865 0920 N
866 0921 N
867 0922 N
868 0923 N
869 0924 N
870 0925 N
871 0926 N
872 0927 N
873 0928 N
874 0929 N
875 0930 N
876 0931 N
877 0932 N
878 0933 N
879 0934 N
880 0935 N
881 0936 1

```

```

IF .REMQUE_OK
THEN
BEGIN
LOCAL
ITEM_ADDR; ! Output from REMQUE
REMQUE (FCB [FCB$L QUEUE_FLINK], ITEM_ADDR);
PASS$FREE_VM (PASS$R_FILE_DYN_BLN, ITEM_ADDR);
END
ELSE
BEGIN
FCB [FCB$V DEALLOC] = 1;
REMOVE_REQUESTED = 1;
END;
END;

+
- Get next FCB from queue.
FCB = .NEXT_FCB;
END;

+
- Decrement REQUEST_LEVEL.
REQUEST_LEVEL = .REQUEST_LEVEL - 1;

+
- If a remove request has been made, service it.
IF .REMOVE_REQUESTED
THEN
SERVICE_REQUEST ();

RETURN;

END; ! End of routine PASS$CLOSE_LOCAL

```

	03	BB	0000	PASS\$CLOSE_LOCAL::		
				PUSHR	#*M<R0,R1>	: 0785
5E		08	C2 00002	SUBL2	#8, SP	
03	00000000'	EF	E8 00005	BLBS	QUEUE_INITIALIZED, 1\$: 0844
		0099	31 0000C	BRW	8\$	
	00000000'	EF	D6 0000F 1\$:	INCL	REQUEST_LEVEL	: 0852
		04	13 00015	BEQL	2\$	
		6E	D4 00017	CLRL	REMQUE_OK	: 0854
		03	11 00019	BRB	3\$	
6E		01	D0 0001B 2\$:	MOVL	#1, REMQUE_OK	: 0856
52	00000000'	EF	D0 0001E 3\$:	MOVL	FILE_QUEUE, FCB	: 0862
50	00000000'	EF	9E 00025 4\$:	MOVAB	FILE_QUEUE, R0	: 0868
		50	D1 0002C	CMPL	FCB, R0	

				65	13	0002F	BEQL	7\$		
		52	44	A2	9E	00031	MOVAB	68(R2), FCB	:	0870
		53	BC	A2	D0	00035	MOVL	-68(FCB), NEXT_FCB	:	0871
53	FE	A2		01	E0	00039	BBS	#1, -2(FCB), 6\$:	0872
4E	F8	A2		06	E0	0003E	BBS	#6, -8(FCB), 6\$:	
		50	DC	A2	D0	00043	MOVL	-36(FCB), PFV	:	0877
		14	AE	50	D1	00047	CMPL	PFV, PROCEDURE_FP	:	0878
				44	1E	0004B	BGEQU	6\$:	
		5E		50	D1	0004D	CMPL	PFV, SP	:	
				3F	1B	00050	BLEQU	6\$:	
			06	A0	B4	00052	CLRW	6(PFV)	:	0887
	07	A0	C0	8F	88	00055	BISB2	#192, 7(PFV)	:	0889
	0C	A0		52	D0	0005A	MOVL	FCB, 12(PFV)	:	0890
	08	A0	E4	A2	D0	0005E	MOVL	-28(FCB), 8(PFV)	:	0891
				50	DD	00063	PUSHL	PFV	:	0892
	0000V	CF		01	FB	00065	CALLS	#1, DO_CLOSE	:	
		19		6E	E9	0006A	BLBC	REMOVE_OK, 5\$:	0899
		50	Br	A2	9E	0006D	MOVAB	-68(FCB), R0	:	0904
	04	AE		60	0F	0C071	REMQUE	(R0), ITEM_ADDR	:	
			04	AE	9F	00075	PUSHAB	ITEM_ADDR	:	0905
		7E	0138	8F	3C	00078	MOVZWL	#312, -(SP)	:	
	00000000G	00		02	FB	0007D	CALLS	#2, PASS\$FREE_VM	:	
				0B	11	00084	BRB	6\$:	0899
	FE	A2		02	88	00086	BISB2	#2, -2(FCB)	:	0909
	00000000'	EF		01	D0	0008A	MOVL	#1, REMOVE_REQUESTED	:	0910
		52		53	D0	00091	MOVL	NEXT_FCB FCB	:	0917
				8F	11	00094	BRB	4\$:	0868
			00000000'	EF	D7	00096	DECL	REQUEST_LEVEL	:	0924
			00000000'	EF	E9	0009C	BLBC	REMOVE_REQUESTED, 8\$:	0930
	0000V	CF		00	FB	000A3	CALLS	#0, SERVICE_REQUEST	:	0932
		5E		08	C0	000A8	ADDL2	#8, SP	:	0936
				03	BA	000AB	POPR	#^M<R0,R1>	:	
				05	00	000AD	RSB		:	

; Routine Size: 174 bytes, Routine Base: _PASS\$CODE + 01C0

: 882 0937 1
: 883 0938 1 !<BLF/PAGE>

```

885 0939 1 %SBTTL 'DO_CLOSE - Close a file'
886 0940 1 ROUTINE DO_CLOSE (           ! Close a file
887 0941 1     PFV: REF $PAS$PFV_FILE_VARIABLE ! File variable
888 0942 1     ): NOVALUE =
889 0943 1
890 0944 1 !++
891 0945 1 ! FUNCTIONAL DESCRIPTION:
892 0946 1
893 0947 1     This routine closes a Pascal file. This entry is called from
894 0948 1     PAS$$CLOSE_ALL and PAS$$CLOSE_LOCAL. It is different from
895 0949 1     PAS$$CLOSE2 only in that it does not call PAS$$REMOVE_FILE to
896 0950 1     remove the FCB from the list of open files.
897 0951 1
898 0952 1 ! CALLING SEQUENCE:
899 0953 1
900 0954 1     CALL DO_CLOSE (PFV.mr.r)
901 0955 1
902 0956 1 ! FORMAL PARAMETERS:
903 0957 1
904 0958 1     PFV           - The Pascal File Variable (PFV) passed by reference.
905 0959 1                 The structure of the PFV is defined in PASPFV.REQ.
906 0960 1
907 0961 1 ! IMPLICIT INPUTS:
908 0962 1
909 0963 1     NONE
910 0964 1
911 0965 1 ! IMPLICIT OUTPUTS:
912 0966 1
913 0967 1     NONE
914 0968 1
915 0969 1 ! ROUTINE VALUE:
916 0970 1
917 0971 1     NONE
918 0972 1
919 0973 1 ! SIDE EFFECTS:
920 0974 1
921 0975 1     See PAS$$CLOSE
922 0976 1
923 0977 1 ! SIGNALLED ERRORS:
924 0978 1
925 0979 1     ERRDURCLO - error during CLOSE
926 0980 1
927 0981 1 !--
928 0982 1
929 0983 2     BEGIN
930 0984 2
931 0985 2     LOCAL
932 0986 2     PFV_ADDR: VOLATILE;           ! Enable argument
933 0987 2
934 0988 2     !+
935 0989 2     ! Enable a local condition handler to intercept any signals from
936 0990 2     ! trying to close the file.
937 0991 2     !-
938 0992 2
939 0993 2     ENABLE
940 0994 2     DO_CLOSE_HANDLER (PFV_ADDR);
941 0995 2

```

```

: 942      0996      2      | +
: 943      0997      2      | - Lock PFV We don't care if it is already locked.
: 944      0998      2      | -
: 945      0999      2      |
: 946      1000      2      | PFV [PFV$V_LOCK] = 1;
: 947      1001      2      |
: 948      1002      2      | +
: 949      1003      2      | - Set PFV_ADDR enable argument.
: 950      1004      2      | -
: 951      1005      2      |
: 952      1006      2      | PFV_ADDR = PFV [PFV$R_PFV];
: 953      1007      2      |
: 954      1008      2      | +
: 955      1009      2      | - Call PASS$CLOSE to do the work.
: 956      1010      2      | -
: 957      1011      2      |
: 958      1012      2      | PASS$CLOSE (PFV [PFV$R_PFV]);
: 959      1013      2      |
: 960      1014      2      | +
: 961      1015      2      | - Invalidate information in PFV
: 962      1016      2      | -
: 963      1017      2      |
: 964      1018      2      | PFV [PFV$V_FCB_VALID] = 0;
: 965      1019      2      | PFV [PFV$A_FCB] = 0;
: 966      1020      2      |
: 967      1021      2      | RETURN;
: 968      1022      2      |
: 969      1023      1      | END;

```

! End of routine DO_CLOSE

```

                                .EXTRN  PASS$CLOSE
                                0004 0000 DO_CLOSE:
                                .WORD    Save R2
                                CLRL     PFV_ADDR
                                MOVAL    1$, (FP)
                                MOVL     PFV, R2
                                BISB2    #128, 7(R2)
                                MOVL     R2, PFV_ADDR
                                PUSHL    R2
                                CALLS    #1, PASS$CLOSE
                                BICB2    #64, 7(R2)
                                CLRL     12(R2)
                                RET
                                .WORD    Save nothing
                                MOVL     8(AP), R0
                                MOVL     4(R0), R0
                                PUSHAB   PFV_ADDR
                                PUSHL    #1
                                PUSHL    SP
                                MOVQ    4(AP), -(SP)
                                CALLS    #3, DO_CLOSE_HANDLER
                                RET

```

; Routine Size: 66 bytes, Routine Base: _PASS\$CODE + 026E

: 970 1024 1
: 971 1025 1 !<BLF/PAGE>

.....

```

973 1026 1 %SBTTL 'DO_CLOSE_HANDLER - Error handler for DO_CLOSE'
974 1027 1 ROUTINE DO_CLOSE_HANDLER (
975 1028 1     SIGNAL_ARGS: REF BLOCK [, BYTE],      ! Signal arguments array
976 1029 1     MECH_ARGS: REF BLOCK [, BYTE],       ! Mechanism arguments array
977 1030 1     ENABLE_ARGS: REF VECTOR [, LONG]  ! Enable arguments array
978 1031 1 ) =
979 1032 1
980 1033 1

```

++
FUNCTIONAL DESCRIPTION:

This is the condition handler enabled by DO_CLOSE.
 If the current exception is a PASS message for the file
 our establisher was processing, intercept the signal, use
 \$PUTMSG to display the message text, and unwind to our
 establisher's caller.

The reason for using \$PUTMSG is that DO_CLOSE may be called
 from PASSHANDLER during an unwind. The current VAX
 condition handling architecture does not specify what happens
 when an exception occurs during an unwind, and the current
 implementation performs the search for handlers incorrectly.
 We are safe as long as we don't let the signal outside of the RTL.

CALLING SEQUENCE:

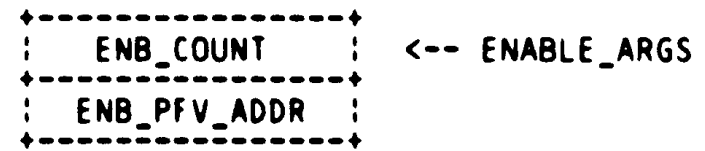
```

status.wlc.v = DO_CLOSE_HANDLER (SIGNAL_ARGS.rl.ra, MECH_ARGS.rl.ra
                                , ENABLE_ARGS.rl.ra)

```

FORMAL PARAMETERS:

- SIGNAL_ARGS - The signal argument list.
- MECH_ARGS - The mechanism argument list.
- ENABLE_ARGS - An array with the following format:



ENB_COUNT is the count of following enable arguments.
 The count is always 1.

ENB_PFV_ADDR - If non-zero, the address of a longword
 containing the PFV our establisher is operating on.

IMPLICIT INPUTS:

The signaller's PFV placed as the first FAO argument in the primary
 signalled message.

IMPLICIT OUTPUTS:

May use \$PUTMSG to write a message

```

1029 1082 1

```

```

1030 1083 1 |
1031 1084 1 | ROUTINE VALUE:
1032 1085 1 |
1033 1086 1 |     SSS_RESIGNAL
1034 1087 1 |
1035 1088 1 | SIDE EFFECTS:
1036 1089 1 |
1037 1090 1 |     May cause an unwind.
1038 1091 1 |
1039 1092 1 | --
1040 1093 1 |
1041 1094 2 | BEGIN
1042 1095 2 |
1043 1096 2 | LITERAL
1044 1097 2 |     ENB_COUNT = 0,           ! Count of enable arguments
1045 1098 2 |     ENB_PFV_ADDR = 1;      ! Address of address of PFV
1046 1099 2 |
1047 1100 2 | BUILTIN
1048 1101 2 |     ACTUALCOUNT;
1049 1102 2 |
1050 1103 2 | !+
1051 1104 2 | ! Determine if this is an unwind.
1052 1105 2 | !-
1053 1106 2 |
1054 1107 2 | IF .SIGNAL_ARGS [CHF$L_SIG_NAME] NEQU SSS_UNWIND
1055 1108 2 | THEN
1056 1109 2 |     BEGIN
1057 1110 2 |
1058 1111 2 |     LOCAL
1059 1112 2 |         COND_NAME: BLOCK [4, BYTE]; ! Primary condition name
1060 1113 2 |
1061 1114 2 |     !+
1062 1115 2 |     ! Get primary condition name.
1063 1116 2 |     !-
1064 1117 2 |
1065 1118 2 |     COND_NAME = .SIGNAL_ARGS [CHF$L_SIG_NAME];
1066 1119 2 |
1067 1120 2 |     !+
1068 1121 2 |     ! Is this a PASS error? If not, resignal.
1069 1122 2 |     !-
1070 1123 2 |
1071 1124 2 |     IF .COND_NAME [STSSV_FAC_NO] NEQU PASS_FACILITY
1072 1125 2 |     THEN
1073 1126 2 |         RETURN SSS_RESIGNAL;
1074 1127 2 |
1075 1128 2 |     !+
1076 1129 2 |     ! See if the error message is one which is "trapped"
1077 1130 2 |     ! by ERROR:=CONTINUE. This is done by comparing the
1078 1131 2 |     ! message number against a select range.
1079 1132 2 |     !-
1080 1133 2 |
1081 1134 2 |     IF .COND_NAME [STSSV_CODE] GEQU PASS$K_MSGCONTLO AND ! Lowest number
1082 1135 2 |     .COND_NAME [STSSV_CODE] LEQU PASS$K_MSGCONTHI
1083 1136 2 |     THEN
1084 1137 4 |         BEGIN
1085 1138 4 |
1086 1139 4 |         !+

```


PASSFILE_UTIL
1-005

File manipulation utility procedures
DO_CLOSE_HANDLER - Error handler for DO_CLOSE

F 9
16-Sep-1984 01:33:01
14-Sep-1984 12:51:29

VAX-11 Bliss-32 V4.0-742
[PASRTL.SRC]PASFILEUT.B32;1

Page 32
(11)

			7E D4 0004A	CLRL	-(SP)	
			52 DD 0004C	PUSHL	R2	
00000000G	00		04 FB 0004E	CALLS	#4, SYSS\$PUTMSG	
	62		02 C0 00055	ADDL2	#2, (R2)	1159
			7E 7C 00058	CLRQ	-(SP)	1161
00000000G	00		02 FB 0005A	CALLS	#2, SYSS\$UNWIND	
	0B		50 E8 00061	BLBS	R0, 1\$	
			03 DD 00064	PUSHL	#3	1163
00000000G	00		01 FB 00066	CALLS	#1, PASS\$BUGCHECK	
			06 11 0006D	BRB	2\$	
	50	0918	8F 3C 0006F 1\$:	MOVZWL	#2328, R0	1168
			04 00074	RET		
			50 D4 00075 2\$:	CLRL	R0	1170
			04 00077	RET		

: Routine Size: 120 bytes, Routine Base: _PASS\$CODE + 02B0

: 1118 1171 1
: 1119 1172 1 !<BLF/PAGE>

```

: 1121 1173 1 %SBTTL 'INITIALIZE_QUEUE - Initialize FILE_QUEUE'
: 1122 1174 1 ROUTINE INITIALIZE_QUEUE
: 1123 1175 1 : NOVALUE =
: 1124 1176 1
: 1125 1177 1
: 1126 1178 1 ++
: 1127 1179 1 FUNCTIONAL DESCRIPTION:
: 1128 1180 1     Initializes FILE_QUEUE to be an empty queue.
: 1129 1181 1
: 1130 1182 1 CALLING SEQUENCE:
: 1131 1183 1
: 1132 1184 1     INITIALIZE_QUEUE ( )
: 1133 1185 1
: 1134 1186 1 FORMAL PARAMETERS:
: 1135 1187 1
: 1136 1188 1     NONE
: 1137 1189 1
: 1138 1190 1 IMPLICIT INPUTS:
: 1139 1191 1
: 1140 1192 1     FILE_QUEUE
: 1141 1193 1     QUEUE_INITIALIZED
: 1142 1194 1
: 1143 1195 1 IMPLICIT OUTPUTS:
: 1144 1196 1
: 1145 1197 1     FILE_QUEUE
: 1146 1198 1     QUEUE_INITIALIZED
: 1147 1199 1
: 1148 1200 1 COMPLETION STATUS:
: 1149 1201 1
: 1150 1202 1     NONE
: 1151 1203 1
: 1152 1204 1 SIDE EFFECTS:
: 1153 1205 1
: 1154 1206 1     Makes FILE_QUEUE an empty queue.
: 1155 1207 1
: 1156 1208 1 SIGNALLED ERRORS:
: 1157 1209 1
: 1158 1210 1     NONE
: 1159 1211 1 --
: 1160 1212 1
: 1161 1213 2 BEGIN
: 1162 1214 2
: 1163 1215 2 LOCAL
: 1164 1216 2     AST_STATUS;                ! Previous AST enable status
: 1165 1217 2
: 1166 1218 2 BUILTIN
: 1167 1219 2     TESTBITCS;
: 1168 1220 2
: 1169 1221 2
: 1170 1222 2     !+
: 1171 1223 2     ! Disable ASTs.
: 1172 1224 2     !-
: 1173 1225 2     AST_STATUS = $SETAST (ENBFLG = 0);
: 1174 1226 2
: 1175 1227 2     !+
: 1176 1228 2     ! If QUEUE_INITIALIZED is still clear, initialize FILE_QUEUE to
: 1177 1229 2     ! be an empty queue. Set QUEUE_INITIALIZED.

```

```

: 1178      1230 2      !-
: 1179      1231 2
: 1180      1232 2      IF TESTBITCS (QUEUE_INITIALIZED)
: 1181      1233 2      THEN
: 1182      1234 2          BEGIN
: 1183      1235 2          FILE_QUEUE [0] = FILE_QUEUE;          ! Set forward link
: 1184      1236 2          FILE_QUEUE [1] = .FILE_QUEUE [0];    ! Set backward link
: 1185      1237 2          END;
: 1186      1238 2
: 1187      1239 2      !+
: 1188      1240 2      ! Reenable ASTs if previously enabled.
: 1189      1241 2      !-
: 1190      1242 2
: 1191      1243 2      IF .AST_STATUS EQL SSS_WASSET
: 1192      1244 2      THEN
: 1193      1245 2          $SETAST (ENBFLG = 1);
: 1194      1246 2
: 1195      1247 2      RETURN;
: 1196      1248 2
: 1197      1249 1      END;

```

! End of routine INITIALIZE_QUEUE

000C 00000 INITIALIZE_QUEUE:

					.WORD	Save R2,R3	: 1174
		53	00000000G	00	9E	00002	
		52	00000000'	EF	9E	00009	
				7E	D4	00010	
		63		01	FB	00012	
07	0C	A2		00	E2	00015	
		62		62	9E	0001A	
	04	A2		62	D0	0001D	
		09		50	D1	00021	1\$:
				05	12	00024	
		63		01	DD	00026	
				01	FB	00028	
				04	0002B	2\$:	
					RET		: 1249
							: 1245
							: 1243
							: 1236
							: 1235
							: 1232
							: 1225
							: 1174

: Routine Size: 44 bytes, Routine Base: _PASS\$CODE + 0328

```

: 1198      1250 1
: 1199      1251 1 !<BLF/PAGE>

```

```
1201 1252 1 %SBTTL 'SERVICE_REQUEST - Service remove request'
1202 1253 1 ROUTINE SERVICE_REQUEST
1203 1254 1 : NOVALUE =
1204 1255 1
1205 1256 1 !+
1206 1257 1 FUNCTIONAL DESCRIPTION:
1207 1258 1
1208 1259 1     Removes all FCBs from FILE_QUEUE that have DEALLOC set.
1209 1260 1
1210 1261 1 CALLING SEQUENCE:
1211 1262 1
1212 1263 1     SERVICE_REQUEST ( )
1213 1264 1
1214 1265 1 FORMAL PARAMETERS:
1215 1266 1
1216 1267 1     NONE
1217 1268 1
1218 1269 1 IMPLICIT INPUTS:
1219 1270 1
1220 1271 1     FILE_QUEUE
1221 1272 1     REQUEST_LEVEL
1222 1273 1     REMOVE_REQUESTED
1223 1274 1
1224 1275 1 IMPLICIT OUTPUTS:
1225 1276 1
1226 1277 1     FILE_QUEUE
1227 1278 1     REQUEST_LEVEL
1228 1279 1     REMOVE_REQUESTED
1229 1280 1
1230 1281 1 COMPLETION STATUS:
1231 1282 1
1232 1283 1     NONE
1233 1284 1
1234 1285 1 SIDE EFFECTS:
1235 1286 1
1236 1287 1     Removes FCBs from queue.
1237 1288 1
1238 1289 1 SIGNALLED ERRORS:
1239 1290 1
1240 1291 1     NONE
1241 1292 1 --
1242 1293 1
1243 1294 2 BEGIN
1244 1295 2
1245 1296 2 LOCAL
1246 1297 2     FREE_LIST: REF VECTOR [, LONG];           ! List of FCBs we deallocated
1247 1298 2
1248 1299 2 BUILTIN
1249 1300 2     REMQUE;
1250 1301 2
1251 1302 2 !+
1252 1303 2     Initialize FREE_LIST.
1253 1304 2 !-
1254 1305 2
1255 1306 2     FREE_LIST = 0;
1256 1307 2
1257 1308 2 !+
```

```

: 1258      1309  2      ! Increment REQUEST_LEVEL.  If we are at level zero, then we can
: 1259      1310  2      ! scan the queue and do REMQUEs.
: 1260      1311  2      !-
: 1261      1312  2      !-
: 1262      1313  2      IF (REQUEST_LEVEL=.REQUEST_LEVEL+1) EQL 0
: 1263      1314  2      THEN
: 1264      1315  2      BEGIN
: 1265      1316  2      LOCAL
: 1266      1317  2      LOCAL
: 1267      1318  2      LOCAL AST STATUS,          ! Previous AST enable status
: 1268      1319  2      LOCAL CURRENT_FCB: REF VECTOR [, LONG]; ! Current FCB to look at
: 1269      1320  2      !-
: 1270      1321  2      !+
: 1271      1322  2      ! Disable ASTs and remember previous status.  This makes us
: 1272      1323  2      ! multi-stream AST reentrant.
: 1273      1324  2      !-
: 1274      1325  2      !-
: 1275      1326  2      AST_STATUS = $SETAST (ENBFLG = 0);
: 1276      1327  2      !-
: 1277      1328  2      !+
: 1278      1329  2      ! Get first FCB on FILE_QUEUE.
: 1279      1330  2      !-
: 1280      1331  2      !-
: 1281      1332  2      CURRENT_FCB = .FILE_QUEUE [0]; ! Forward link
: 1282      1333  2      !-
: 1283      1334  2      !+
: 1284      1335  2      ! Clear REMOVE_REQUESTED.
: 1285      1336  2      !-
: 1286      1337  2      !-
: 1287      1338  2      REMOVE_REQUESTED = 0;
: 1288      1339  2      !-
: 1289      1340  2      !+
: 1290      1341  2      ! While we haven't run out of FCBs, look for FCBs with the
: 1291      1342  2      ! DEALLOC bit set, remove them from the queue, and insert them
: 1292      1343  2      ! on the list of blocks to be freed.
: 1293      1344  2      !-
: 1294      1345  2      !-
: 1295      1346  2      WHILE (.CURRENT_FCB NEQA FILE_QUEUE) DO ! Back at queue header?
: 1296      1347  2      BEGIN
: 1297      1348  2      !+
: 1298      1349  2      ! Allow offset to zero-origin of FCB.
: 1299      1350  2      !-
: 1300      1351  2      LOCAL
: 1301      1352  2      LOCAL FCB_ORIGIN: REF $PASS$FCB CONTROL BLOCK;
: 1302      1353  2      FCB_ORIGIN = .CURRENT_FCB + FCB$K_BLN;
: 1303      1354  2      IF .FCB_ORIGIN [FCB$V_DEALLOC]
: 1304      1355  2      THEN
: 1305      1356  2      BEGIN
: 1306      1357  2      LOCAL
: 1307      1358  2      LOCAL TEMP;          ! Output from REMQUE
: 1308      1359  2      REMQUE (CURRENT_FCB [0], TEMP);
: 1309      1360  2      CURRENT_FCB [0] = .FREE_LIST; ! Add FCB to free list
: 1310      1361  2      FREE_LIST = .CURRENT_FCB;
: 1311      1362  2      END;
: 1312      1363  2      !-
: 1313      1364  2      !+
: 1314      1365  2      ! Get next FCB from the queue.

```

```

1315      1366      4      !-
1316      1367      4
1317      1368      4      CURRENT_FCB = .CURRENT_FCB [0];      ! Forward link
1318      1369      4      END;
1319      1370
1320      1371      !+
1321      1372      ! Reenable ASTs if they were previously enabled.
1322      1373      !-
1323      1374
1324      1375      IF .AST_STATUS EQL SS$_WASSET
1325      1376      THEN
1326      1377      $SETAST (ENBFLG = 1);
1327      1378
1328      1379      END;
1329      1380
1330      1381      !+
1331      1382      ! Decrement REQUEST_LEVEL.
1332      1383      !-
1333      1384
1334      1385      REQUEST_LEVEL = .REQUEST_LEVEL - 1;
1335      1386
1336      1387      !+
1337      1388      ! Free all blocks on FREE_LIST.
1338      1389      !-
1339      1390
1340      1391      WHILE (.FREE_LIST NEQA 0) DO
1341      1392      BEGIN
1342      1393      LOCAL
1343      1394      BLOCK_ADDR;
1344      1395      BLOCK_ADDR = .FREE_LIST;
1345      1396      FREE_LIST = .FREE_LIST [0];
1346      1397      PASS$FREE_VM (PASS$K_FILE_DYN_BLN, BLOCK_ADDR);
1347      1398      END;
1348      1399
1349      1400      RETURN;
1350      1401
1351      1402      END;

```

! End of routine SERVICE_REQUEST

003C 0000 SERVICE_REQUEST:						
55	00000000G	00	9E 00002	.WORD	Save R2,R3,R4,R5	: 1253
54	00000000'	EF	9E 00009	MOVAB	SYSS\$SETAST, R5	
5E		04	C2 00010	MOVAB	REQUEST_LEVEL, R4	
		53	D4 00013	SUBL2	#4, SP	
		64	D6 00015	CLRL	FREE_LIST	: 1306
		36	12 00017	INCL	REQUEST_LEVEL	: 1313
		7E	D4 00019	BNEQ	4\$	
65		01	FB 0001B	CLRL	-(SP)	: 1326
51	FB	A4	D0 0001E	CALLS	#1, SYSS\$SETAST	
	08	A4	D4 00022	MOVL	FILE_QUEUE, CURRENT_FCB	: 1332
52	FB	A4	9E 00025	CLRL	REMOVE_REQUESTED	: 1338
52		51	D1 00029	MOVAB	FILE_QUEUE, R2	: 1346
		17	13 0002C	CPL	CURRENT_FCB, R2	
				BEQL	3\$	

09	FE	52	44	A1	9E	0002E	MOVAB	68(R1), FCB ORIGIN	:	1353
		A2		01	E1	00032	BBC	#1, -2(FCB ORIGIN), 2\$:	1354
		52		61	0F	00037	REMQUE	(CURRENT_FCB), TEMP	:	1359
		61		53	D0	0003A	MOVL	FREE_LIST, (CURRENT_FCB)	:	1360
		53		51	D0	0003D	MOVL	CURRENT_FCB, FREE_LIST	:	1361
		51		61	D0	00040	2\$: MOVL	(CURRENT_FCB), CURRENT_FCB	:	1368
				E0	11	00043	BRB	1\$:	1346
		09		50	D1	00045	3\$: CMPL	AST_STATUS, #9	:	1375
				05	12	00048	BNEQ	4\$:	
				01	DD	0004A	PUSHL	#1	:	1377
		65		01	FB	0004C	CALLS	#1, SYS\$SETAST	:	
				64	D7	0004F	4\$: DECL	REQUEST_LEVEL	:	1385
				53	D5	00051	5\$: TSTL	FREE_LIST	:	1391
				16	13	00053	BEQL	6\$:	
		6E		53	D0	00055	MOVL	FREE_LIST, BLOCK_ADDR	:	1395
		53		63	D0	00058	MOVL	(FREE_LIST), FREE_LIST	:	1396
				5E	DD	0005B	PUSHL	SP	:	1397
		7E	0138	8F	3C	0005D	MOVZWL	#312, -(SP)	:	
00000000G	00			02	FB	00062	CALLS	#2, PASS\$FREE_VM	:	
				E6	11	00069	BRB	5\$:	1391
				04	0006B	6\$: RET		:	1402	

; Routine Size: 108 bytes, Routine Base: _PASS\$CODE + 0354

: 1352 1403 1
 : 1353 1404 1 !<BLF/PAGE>

PASS\$FILE_UTIL File manipulation utility procedures
1-005 SERVICE_REQUEST - Service remove request

M 9
16-Sep-1984 01:33:01 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:51:29 [PASRTL.SRC]PASFILEUT.B32;1

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(14)

PA
1-

: 1355 1405 1 END
: 1356 1406 1
: 1357 1407 0 ELUDOM

: End of module PASS\$FILE_UTIL

PSECT SUMMARY

Name	Bytes	Attributes
_PASS\$DATA	20 NOVEC, WRT, RD	,NOEXE,NOSHR, LCL, REL, CON, PIC,ALIGN(2)
_PASS\$CODE	960 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	19	0	581	00:00.9
_\$255\$DUA28:[PASRTL.OBJ]PASLIB.L32;1	427	105	24	33	00:00.4

COMMAND QUALIFIERS

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

: Size: 960 code + 20 data bytes
: Run Time: 00:21.6
: Elapsed Time: 01:09.6
: Lines/CPU Min: 3915
: Lexemes/CPU-Min: 16758
: Memory Used: 102 pages
: Compilation Complete

