



```

TTTTTTTTT1  RRRRRRRR  UU      UU  NN      NN  CCCCCCCC
TTTTTTTTTT  RRRRRRRR  UU      UU  NN      NN  CCCCCCCC
  TT         RR      RR  UU      UU  NN      NN  CC
  TT         RR      RR  UU      UU  NN      NN  CC
  TT         RR      RR  UU      UU  NNNN     NN  CC
  TT         RR      RR  UU      UU  NNNN     NN  CC
  TT        RRRRRRRR  UU      UU  NN  NN     NN  CC
  TT        RRRRRRRR  UU      UU  NN  NN     NN  CC
  TT        RR  RR    UU      UU  NN  NNNN    CC
  TT        RR  RR    UU      UU  NN  NNNN    CC
  TT        RR      RR  UU      UU  NN      NN  CC
  TT        RR      RR  UU      UU  NN      NN  CC
  TT        RR      RR  UUUUUUUUU  NN      NN  CCCCCCCC
  TT        RR      RR  UUUUUUUUU  NN      NN  CCCCCCCC

```

```

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  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57

```

0001 0 MODULE TRUNC (
0002 0     LANGUAGE (BLISS32),
0003 0     IDENT = 'V04-000',
0004 0     ) =
0005 1 BEGIN
0006 1
0007 1
0008 1 *****
0009 1 *
0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0011 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0012 1 * ALL RIGHTS RESERVED.
0013 1 *
0014 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0015 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0016 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0017 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0018 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0019 1 * TRANSFERRED.
0020 1 *
0021 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0022 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0023 1 * CORPORATION.
0024 1 *
0025 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0027 1 *
0028 1 *****
0029 1
0030 1
0031 1 ++
0032 1
0033 1 FACILITY: F11ACP Structure Level 1
0034 1
0035 1 ABSTRACT:
0036 1
0037 1     This routine truncates a file by deallocating the indicated blocks.
0038 1
0039 1 ENVIRONMENT:
0040 1
0041 1     STARLET operating system, including privileged system services
0042 1     and internal exec routines.
0043 1
0044 1 --
0045 1
0046 1
0047 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 21-Mar-1977 10:41
0048 1
0049 1 MODIFIED BY:
0050 1
0051 1     V03-002 ACG0287 Andrew C. Goldstein, 14-Apr-1982 17:18
0052 1     Check for index file ID in header rather than FCB
0053 1
0054 1     V03-001 LMP0023 L. Mark Pilant, 7-Apr-1982 16:45
0055 1     Give a privilege violation if attempting to truncate the
0056 1     index file (INDEXF.SYS).
0057 1

```

```
.. 58      0058 1 | V02-003 ACG35898 Andrew C. Goldstein, 11-Mar-1981 16:31
.. 59      0059 1 | Update HIBLK in primary file header
.. 60      0060 1 |
.. 61      0061 1 | V02-002 ACG0167 Andrew C. Goldstein, 7-May-1980 18:52
.. 62      0062 1 | Previous revision history moved to f11A.REV
.. 63      0063 1 | **
.. 64      0064 1 |
.. 65      0065 1 |
.. 66      0066 1 | LIBRARY 'SYSS$LIBRARY:LIB.L32';
.. 67      0067 1 | REQUIRE 'SRC$:FCPDEF.B32';
.. 68      0382 1 |
.. 69      0383 1 |
.. 70      0384 1 | FORWARD ROUTINE
.. 71      0385 1 | TRUNCATE : NOVALUE, ! truncate file
.. 72      0386 1 | TRUNCATE_HEADER : NOVALUE; ! truncate individual file header
```

```

74 0387 1 GLOBAL ROUTINE TRUNCATE (FIB, FILE_HEADER, DEALLOCATE) : NOVALUE =
75 0388 1
76 0389 1 !++
77 0390 1
78 0391 1 FUNCTIONAL DESCRIPTION:
79 0392 1
80 0393 1 This routine truncates a file to the size indicated in the FIB by
81 0394 1 deallocating the necessary blocks. The erase flag controls whether
82 0395 1 the retrieval pointers are erased in the header. The deallocate flag
83 0396 1 controls whether or not the blocks are actually returned to the
84 0397 1 storage map.
85 0398 1
86 0399 1 CALLING SEQUENCE:
87 0400 1 TRUNCATE (ARG1, ARG2, ARG3)
88 0401 1
89 0402 1 INPUT PARAMETERS:
90 0403 1 ARG1: address of FIB for operation
91 0404 1 ARG2: address of file header
92 0405 1 ARG3: = 1 to return space to storage map
93 0406 1 = 0 to just clean out header
94 0407 1
95 0408 1 IMPLICIT INPUTS:
96 0409 1 CURRENT_VCB: VCB of volume
97 0410 1
98 0411 1 OUTPUT PARAMETERS:
99 0412 1 NONE
100 0413 1
101 0414 1 IMPLICIT OUTPUTS:
102 0415 1 NONE
103 0416 1
104 0417 1 ROUTINE VALUE:
105 0418 1 NONE
106 0419 1
107 0420 1 SIDE EFFECTS:
108 0421 1 storage bitmap altered
109 0422 1 file header altered
110 0423 1
111 0424 1 --
112 0425 1
113 0426 2 BEGIN
114 0427 2
115 0428 2 MAP
116 0429 2 FIB : REF BBLOCK, ! FIB for operation
117 0430 2 FILE_HEADER : REF BBLOCK; ! file header
118 0431 2
119 0432 2 LOCAL
120 0433 2 FCB : REF BBLOCK, ! FCB of current file header
121 0434 2 HEADER : REF BBLOCK, ! address of current file header
122 0435 2 NEW_HEADER : REF BBLOCK, ! address of extension file header
123 0436 2 MAP_AREA : REF BBLOCK, ! file header map area
124 0437 2 MAP_POINTER : REF BBLOCK, ! pointer to scan map
125 0438 2 MAP_COUNT, ! retrieval pointer count
126 0439 2 VBN, ! relative VBN of operation
127 0440 2 COUNT, ! count of blocks returned
128 0441 2 EXT_FID : BBLOCK [FID$C_LENGTH], ! file ID of extension header
129 0442 2 EX_SEGNUM, ! segment number of ext header
130 0443 2 REREAD, ! flag to reread primary header

```

```
131 0444 2 REREAD2; ! flag to update primary header
132 0445 2
133 0446 2 LABEL
134 0447 2 DO TRUNCATE, ! main truncate operation body
135 0448 2 VBN_LOOP; ! main loop to scan for starting VBN
136 0449 2
137 0450 2 EXTERNAL
138 0451 2 CLEANUP_FLAGS : BITVECTOR, ! cleanup action flags
139 0452 2 USER_STATUS : VECTOR, ! I/O status block of user
140 0453 2 CURRENT_VCB : REF BBLOCK, ! VCB of volume
141 0454 2 PRIMARY_FCB : REF BBLOCK; ! FCB of file
142 0455 2
143 0456 2 EXTERNAL ROUTINE
144 0457 2 PMS_START_SUB, ! start subfunction metering
145 0458 2 PMS_END_SUB, ! end subfunction metering
146 0459 2 SEARCH_FCB, ! search FCB list for FCB
147 0460 2 MARK_DIRTY, ! mark buffer for write-back
148 0461 2 CHECKSUM, ! checksum file header
149 0462 2 NEXT_HEADER, ! read next extension header
150 0463 2 UPDATE_FILESIZE, ! update file size in primary FCB
151 0464 2 INIT_FCB, ! initialize FCB
152 0465 2 WRITE_HEADER, ! write file header
153 0466 2 READ_HEADER, ! read file header
154 0467 2 DEL_EXTFCB, ! delete extension FCB's
155 0468 2 DELETE_FILE; ! delete remainder of file
156 0469 2
157 0470 2
158 0471 2 ! Start metering for this subfunction.
159 0472 2 !
160 0473 2
161 0474 2 PMS_START_SUB (PMS_ALLOC);
162 0475 2
163 0476 2 ! Establish the basic pointers. Round up the starting VBN to the next cluster
164 0477 2 ! boundary and adjust it to a zero start. The block count must be zero (default).
165 0478 2 !
166 0479 2
167 0480 2 HEADER = .FILE_HEADER;
168 0481 2 FCB = .PRIMARY_FCB;
169 0482 2
170 0483 2 ! Check for the index file INDEXF.SYS
171 0484 2 !
172 0485 2
173 0486 2 IF .HEADER[FH1$W_FID_NUM] EQL FID$C_INDEXF
174 0487 2 AND .HEADER[FH1$W_FID_SEQ] EQL FID$C_INDEXF
175 0488 2 THEN ERR_EXIT (SS$NOPRIV);
176 0489 2
177 0490 4 VBN = ((.FIB[FIB$L_EXVBN] - 1 + .CURRENT_VCB[VCB$W_CLUSTER] - 1)
178 0491 2 / .CURRENT_VCB[VCB$W_CLUSTER]) * .CURRENT_VCB[VCB$W_CLUSTER];
179 0492 2
180 0493 2 IF .FIB[FIB$L_EXSZ] NEQ 0 THEN ERR_EXIT (SS$BADPARAM);
181 0494 2
182 0495 2 ! Init the user's return parameters.
183 0496 2 !
184 0497 2
185 0498 2 USER_STATUS[1] = .VBN + 1 - .FIB[FIB$L_EXVBN];
186 0499 2 FIB[FIB$L_EXVBN] = .VBN + 1;
187 0500 2 FIB[FIB$L_EXSZ] = 0;
```

```
188 0501 2 REREAD = 0;
189 0502 2
190 0503 2 ! Now scan the file headers for the retrieval pointer containing the starting
191 0504 2 ! VBN. If the VBN is off the end of file, report the error; if it coincides,
192 0505 2 ! the operation is a noop.
193 0506 2
194 0507 2
195 0508 2 DO TRUNCATE:
196 0509 2 BEGIN
197 0510 2
198 0511 3 VBN_LOOP:
199 0512 4 BEGIN
200 0513 4 WHILE 1 DO
201 0514 5 BEGIN
202 0515 5 MAP_AREA = .HEADER + .HEADER[FH1$B_MPOFFSET]*2;
203 0516 5 MAP_POINTER = .MAP_AREA + FM1$C_POINTERS;
204 0517 5 MAP_COUNT = .MAP_AREA[FM1$B_INUSE] / 2;
205 0518 5
206 0519 5 WHILE .MAP_COUNT GTR 0 DO
207 0520 6 BEGIN
208 0521 6 COUNT = .MAP_POINTER[FM1$B_COUNT] + 1;
209 0522 6 IF .COUNT GTRU .VBN THEN LEAVE VBN_LOOP;
210 0523 6 VBN = .VBN - .COUNT;
211 0524 6 MAP_POINTER = .MAP_POINTER + 4;
212 0525 6 MAP_COUNT = .MAP_COUNT - 1;
213 0526 5 END;
214 0527 5
215 0528 5 ! We have scanned through an entire header. Chain to the next header if it
216 0529 5 ! exists. First check for the boundary condition of starting the truncate
217 0530 5 ! at the header boundary to avoid leaving an empty header.
218 0531 5
219 0532 5
220 0533 5 IF .VBN EQL 0
221 0534 5 THEN
222 0535 6 BEGIN
223 0536 6 IF .MAP_AREA[FM1$W_EX_FILNUM] EQL 0
224 0537 6 THEN LEAVE DO TRUNCATE ! truncate coincides with EOF
225 0538 6 ELSE LEAVE VBN_LOOP; ! dump the extension headers
226 0539 5 END;
227 0540 5
228 0541 5 NEW_HEADER = NEXT_HEADER (.HEADER, .FCB);
229 0542 5 IF .NEW_HEADER EQL 0 THEN EXITLOOP;
230 0543 5 REREAD = 1;
231 0544 5 HEADER = .NEW_HEADER;
232 0545 5
233 0546 5 IF .FCB NEQ 0
234 0547 5 THEN FCB = .FCB[FCB$L_EXFCB]
235 0548 5 ELSE IF SEARCH_FCB (HEADER[FH1$W_FID]) NEQ 0
236 0549 5 THEN ERR_EXIT (SS$_ACCONFLICT);
237 0550 4 END; ! end of header scan loop
238 0551 4
239 0552 5 ERR_EXIT (SS$_ENDOFFILE)
240 0553 3 END; ! end of VBN_LOOP
241 0554 3
242 0555 3 ! We are now pointing at the retrieval pointer in which the truncation starts.
243 0556 3 ! Clean out the rest of this header. If there are extension headers, use
244 0557 3 ! the delete routine to dispose of them. Also flush extension FCB's, if they
```

```
245 0558 3 3 exist.
246 0559 3 3
247 0560 3 3
248 0561 3 3 MARK DIRTY (.HEADER);
249 0562 3 3 CLEANUP_FLAGS[CLF_FIXFCB] = 1;
250 0563 3 3 CLEANUP_FLAGS[CLF_INVWINDOW] = 1;
251 0564 3 3 CLEANUP_FLAGS[CLF_CLEANTRUNC] = 1;
252 0565 3 3 KERNEL_CALL (UPDATE_FILESIZE, .FIB[FIB$L_EXVBN] - 1);
253 0566 3 3
254 0567 3 3 ! Update the HIBLK field in the record attributes to reflect the new file
255 0568 3 3 ! size.
256 0569 3 3
257 0570 3 3
258 0571 3 3 IF NOT .REREAD
259 0572 3 3 THEN BBLOCK [HEADER[FH1$W_RECATTR], FAT$L_HIBLK] = ROT (.FIB[FIB$L_EXVBN]-1, 16);
260 0573 3 3
261 0574 3 3 TRUNCATE HEADER (.FIB, .HEADER, .DEALLOCATE, .MAP_POINTER, .VBN);
262 0575 3 3 EX_SEGNUM = .MAP_AREA[FM1$B_EX_SEGNUM] + 1;
263 0576 3 3 EXT_FID[FID$W_NUM] = .MAP_AREA[FM1$W_EX_FILNUM];
264 0577 3 3 EXT_FID[FID$W_SEQ] = .MAP_AREA[FM1$W_EX_FILSEQ];
265 0578 3 3 EXT_FID[FID$W_RVN] = 0;
266 0579 3 3 MAP_AREA[FM1$W_EX_FILNUM] = 0;
267 0580 3 3 MAP_AREA[FM1$W_EX_FILSEQ] = 0;
268 0581 3 3
269 0582 3 3 IF .FCB NEQ 0 AND .FCB NEQ .PRIMARY_FCB
270 0583 3 3 THEN KERNEL_CALL (INIT_FCB, .FCB, .HEADER);
271 0584 3 3
272 0585 3 3 CHECKSUM (.HEADER);
273 0586 3 3 WRITE_HEADER ();
274 0587 3 3
275 0588 3 3 REREAD2 = .REREAD;
276 0589 4 3 IF .DEALLOCATE AND (.EXT_FID[FID$W_NUM] NEQ 0)
277 0590 3 3 THEN
278 0591 4 3 BEGIN
279 0592 4 3 REREAD = 1;
280 0593 4 3 HEADER = NEXT_HEADER (0, .FCB, EXT_FID, .EX_SEGNUM);
281 0594 4 3 KERNEL_CALL (DEL_EXFCB, .FCB);
282 0595 4 3 DELETE_FILE (.FIB, .HEADER);
283 0596 3 3 END;
284 0597 3 3
285 0598 2 3 END; ! end of block DO_TRUNCATE
286 0599 2 3
287 0600 2 3 ! If this was a truncate of a multi-header file, reread the primary header
288 0601 2 3 ! and update the HIBLK field in the record attributes to reflect the new file
289 0602 2 3 ! size.
290 0603 2 3
291 0604 2 3
292 0605 2 3 IF .REREAD
293 0606 2 3 THEN HEADER = READ_HEADER (FIB[FIB$W_FID], .PRIMARY_FCB);
294 0607 2 3
295 0608 2 3 IF .REREAD2
296 0609 2 3 THEN
297 0610 3 3 BEGIN
298 0611 3 3 BBLOCK [HEADER[FH1$W_RECATTR], FAT$L_HIBLK] = ROT (.FIB[FIB$L_EXVBN]-1, 16);
299 0612 3 3 MARK_DIRTY (.HEADER);
300 0613 2 3 END;
301 0614 2 3
```



```

: 302      0615 2
: 303      0616 2 ! Stop metering of this subfunction
: 304      0617 2
: 305      0618 2
: 306      0619 2 PMS_END_SUB ();
: 307      0620 2
: 308      0621 1 END;

```

: end of routine TRUNCATE

```

.TITLE TRUNC
.IDENT \V04-000\

```

```

.EXTRN CLEANUP_FLAGS, USER_STATUS
.EXTRN CURRENT_VCB, PRIMARY_FCB
.EXTRN PMS_START_SUB, PMS_END_SUB
.EXTRN SEARCH_FCB, MARK_DIRTY
.EXTRN CHECKSDM, NEXT_HEADER
.EXTRN UPDATE_FILESIZE
.EXTRN INIT_FCB, WRITE_HEADER
.EXTRN READ_HEADER, DEC_EXTFCB
.EXTRN DELETE_FILE, SYS$CMKRNL

```

.PSECT \$CODE\$,NOWRT,2

```

.ENTRY TRUNCATE, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-; 0387
R11

```

				OFFC 00000							
	5B	00000000G	9F	9E	00002			MOVAB	@#SYS\$CMKRNL, R11		
	5E		08	C2	00009			SUBL2	#8, SP		
			08	DD	0000C			PUSHL	#8	0474	
	0000G	CF	01	FB	0000E			CALLS	#1, PMS_START_SUB		
			55	08	AC	D0	00013	MOVL	FILE_HEADER, HEADER	0480	
			56	0000G	CF	D0	00017	MOVL	PRIMARY_FCB, FCB	0481	
			01	02	A5	B1	0001C	CMPW	2(HEADER), #1	0486	
					09	12	00020	BNEQ	1\$		
			01	04	A5	B1	00022	CMPW	4(HEADER), #1	0487	
					03	12	00026	BNEQ	1\$		
					24	BF	00028	CHMU	#36	0488	
					04	04	0002A	RET			
			51	04	AC	D0	0002B	1\$:	MOVL	FIB, R1	0490
			50	0000G	CF	D0	0002F		MOVL	CURRENT_VCB, R0	
			52	3C	A0	3C	00034		MOVZWL	60(R0), R2	
			52	1C	A1	C0	00038		ADDL2	28(R1), R2	
			52		02	C2	0003C		SUBL2	#2, R2	
			53	3C	A0	3C	0003F		MOVZWL	60(R0), R3	0491
			52		53	C6	00043		DIVL2	R3, R2	
			54	3C	A0	3C	00046		MOVZWL	60(R0), VBN	
			54		52	C4	0004A		MULL2	R2, VBN	
				18	A1	D5	0004D		TSTL	24(R1)	0493
					03	13	00050		BEQL	2\$	
					14	BF	00052		CHMU	#20	
					04	04	00054		RET		
			50	04	AC	D0	00055	2\$:	MOVL	FIB, R0	0498
			54	1C	A0	C3	00059		SUBL3	28(R0), VBN, R1	
51		0000G	CF	01	A1	9E	0005E		MOVAB	1(R1), USER_STATUS+4	
		1C	A0	01	A4	9E	00064		MOVAB	1(R4), 28(R0)	0499
				18	A0	D4	00069		CLRL	24(R0)	0500
					59	D4	0006C		CLRL	REREAD	0501

			50	01	A5	9A	0006E	3\$	MOVZBL	1(HEADER), R0	0515
			52		6540	3E	00072		MOVAV	(HEADER)[R0], MAP_AREA	
			53	0A	A2	9E	00076		MOVAB	10(R2), MAP_POINTER	0516
			58	08	A2	9A	0007A		MOVZBL	8(MAP_AREA), MAP_COUNT	0517
			58		02	C6	0007E		DIVL2	#2, MAP_COUNT	
					15	15	00081	4\$:	BLEQ	5\$	0519
			57	01	A3	9A	00083		MOVZBL	1(MAP_POINTER), COUNT	0521
					57	D6	00087		INCL	COUNT	
			54		57	D1	00089		CMPL	COUNT, VBN	0522
					49	1A	0008C		BOTRU	9\$	
			54		57	C2	0008E		SUBL2	COUNT, VBN	0523
			53		04	C0	00091		ADDL2	#4, MAP_POINTER	0524
					58	D7	00094		DECL	MAP_COUNT	0525
					E9	11	00096		BRB	4\$	0519
					54	D5	00098	5\$:	TSTL	VBN	0533
					08	12	0009A		BNEQ	6\$	
				02	A2	B5	0009C		TSTW	2(MAP_AREA)	0536
					36	12	0009F		BNEQ	9\$	
					00D9	31	000A1		BRW	12\$	0537
			7E		55	7D	000A4	6\$:	MOVQ	HEADER, -(SP)	0541
0000G			CF		02	FB	000A7		CALLS	#2, NEXT_HEADER	
			5A		50	D0	000AC		MOVL	R0, NEW_HEADER	
					21	13	000AF		BEQL	8\$	0542
			59		01	D0	000B1		MOVL	#1, REREAD	0543
			55		5A	D0	000B4		MOVL	NEW_HEADER, HEADER	0544
					56	D5	000B7		TSTL	FCB	0546
					06	13	000B9		BEQL	7\$	
			56	0C	A6	D0	000BB		MOVL	12(FCB), FCB	0547
					AD	11	000BF		BRB	3\$	
				02	A5	9F	000C1	7\$:	PUSHAB	2(HEADER)	0548
0000G			CF		01	FB	000C4		CALLS	#1, SEARCH_FCB	
					50	D5	000C9		TSTL	R0	
					A1	13	000CB		BEQL	3\$	
				0800	8F	BF	000CD		CHMU	#2048	0549
					04	04	000D1		RET		
				0870	8F	BF	000D2	8\$:	CHMU	#2160	0552
					04	04	000D6		RET		
					55	DD	000D7	9\$:	PUSHL	HEADER	0561
0000G			CF		01	FB	000D9		CALLS	#1, MARK_DIRTY	
0000G			CF	00080012	8F	C8	000DE		BISL2	#524306, CLEANUP_FLAGS	0564
			57	04	AC	D0	000E7		MOVL	FIB, R7	0565
58			1C	A7	01	C3	000EB		SUBL3	#1, 28(R7), R8	
					58	DD	000F0		PUSHL	R8	
					01	DD	000F2		PUSHL	#1	
					5E	DD	000F4		PUSHL	SP	
				0000G	CF	9F	000F6		PUSHAB	UPDATE_FILESIZE	
			6B		04	FB	000FA		CALLS	#4, SYSSCMKRN	
			05		59	E8	000FD		BLBS	REREAD, 10\$	0571
12	A5		58		10	9C	00100		ROTL	#16, R8, 18(HEADER)	0572
					18	BB	00105	10\$:	PUSHR	#^M<R3,R4>	0574
				0C	AC	DD	00107		PUSHL	DEALLOCATE	
					55	DD	0010A		PUSHL	HEADER	
					57	DD	0010C		PUSHL	R7	
0000V			CF		05	FB	0010E		CALLS	#5, TRUNCATE_HEADER	
			53		62	9A	00113		MOVZBL	(MAP_AREA), EX_SEGNUM	0575
					53	D6	00116		INCL	EX_SEGNUM	
			6E	02	A2	D0	00118		MOVL	2(MAP_AREA), EXT_FID	0576

	04	AE	B4	0011C	CLRW	EXT_FID+4	0578		
	02	A2	D4	0011F	CLRL	2(MAP_AREA)	0579		
		56	D5	00122	TSTL	FCB	0582		
		16	13	00124	BEQL	11\$			
0000G	CF	56	D1	00126	CMPL	FCB, PRIMARY_FCB			
		0F	13	0012B	BEQL	11\$			
		55	DD	0012D	PUSHL	HEADER	0583		
		56	DD	0012F	PUSHL	FCB			
		02	DD	00131	PUSHL	#2			
		5E	DD	00133	PUSHL	SP			
	6B	0000G	CF	9F	00135	PUSHAB	INIT_FCB		
		05	FB	00139	CALLS	#5, SYSSCMKRN			
		55	DD	0013C	11\$: PUSHL	HEADER	0585		
0000G	CF		01	FB	0013E	CALLS	#1, CHECKSUM		
0000G	CF		00	FB	00143	CALLS	#0, WRITE_HEADER	0586	
	52		59	DD	00148	MOVL	REREAD, REREAD2	0588	
	2E	0C	AC	E9	0014B	BLBC	DEALLOCATE, 12\$	0589	
			6E	B5	0014F	TSTW	EXT_FID		
			2A	13	00151	BEQL	12\$		
	59		01	DD	00153	MOVL	#1, REREAD	0592	
			53	DD	00156	PUSHL	EX_SEGNUM	0593	
		04	AE	9F	00158	PUSHAB	EXT_FID		
			56	DD	0015B	PUSHL	FCB		
			7E	D4	0015D	CLRL	-(SP)		
0000G	CF		04	FB	0015F	CALLS	#4, NEXT_HEADER		
	55		50	DD	00164	MOVL	R0, HEADER		
			56	DD	00167	PUSHL	FCB	0594	
			01	DD	00169	PUSHL	#1		
			5E	DD	0016B	PUSHL	SP		
		0000G	CF	9F	0016D	PUSHAB	DEL_EXTFCB		
		6B	04	FB	00171	CALLS	#4, SYSSCMKRN		
			55	DD	00174	PUSHL	HEADER	0595	
			57	DD	00176	PUSHL	R7		
0000G	CF		02	FB	00178	CALLS	#2, DELETE_FILE		
	11		59	E9	0017D	12\$: BLBC	REREAD, 13\$	0605	
		0000G	CF	DD	00180	PUSHL	PRIMARY_FCB	0606	
	7E	04	AC	C1	00184	ADDL3	#4, FIB, -(SP)		
		0000G	CF	02	FB	00189	CALLS	#2, READ_HEADER	
			50	DD	0018E	MOVL	R0, HEADER		
			15	E9	00191	13\$: BLBC	REREAD2, 14\$	0608	
			50	AC	DD	00194	MOVL	FIB, R0	0611
	50	1C	A0	01	C3	00198	SUBL3	#1, 28(R0), R0	
2	A5		50	10	9C	0019D	ROTL	#16, R0, 18(HEADER)	
			55	DD	001A2	PUSHL	HEADER	0612	
		0000G	CF	01	FB	001A4	CALLS	#1, MARK_DIRTY	
		0000G	CF	00	FB	001A9	14\$: CALLS	#0, PMS_END_SUB	0619
			04	001AE	RET			0621	

; Routine Size: 431 bytes. Routine Base: \$CODE\$ + 0000

```

310 0622 1 GLOBAL ROUTINE TRUNCATE_HEADER (FIB, HEADER, DEALLOCATE, POINTER, LAST_COUNT) : NOVALUE =
311 0623 1
312 0624 1 **
313 0625 1
314 0626 1 FUNCTIONAL DESCRIPTION:
315 0627 1
316 0628 1     This routine returns the indicated retrieval pointers in the given
317 0629 1     file header to the storage map and erases them in the file header.
318 0630 1
319 0631 1
320 0632 1 CALLING SEQUENCE:
321 0633 1     TRUNCATE_HEADER (ARG1, ARG2, ARG3, ARG4, ARG5)
322 0634 1
323 0635 1 INPUT PARAMETERS:
324 0636 1     ARG1: address of -IB of operation
325 0637 1     ARG2: address of file header
326 0638 1     ARG3: = 1 to return space to the storage map
327 0639 1           = 0 to just erase the retrieval pointers
328 0640 1     ARG4: address of first retrieval pointer to process, if present
329 0641 1     ARG5: new count field of first pointer, if present
330 0642 1
331 0643 1 IMPLICIT INPUTS:
332 0644 1     NONE
333 0645 1
334 0646 1 OUTPUT PARAMETERS:
335 0647 1     NONE
336 0648 1
337 0649 1 IMPLICIT OUTPUTS:
338 0650 1     NONE
339 0651 1
340 0652 1 ROUTINE VALUE:
341 0653 1     NONE
342 0654 1
343 0655 1 SIDE EFFECTS:
344 0656 1     file header altered, storage map altered
345 0657 1
346 0658 1 --
347 0659 1
348 0660 2 BEGIN
349 0661 2
350 0662 2 MAP
351 0663 2     FIB           : REF BBLOCK, ! user FIB
352 0664 2     HEADER       : REF BBLOCK; ! file header
353 0665 2
354 0666 2 LOCAL
355 0667 2     MAP_AREA      : REF BBLOCK, ! address of file header map area
356 0668 2     MAP_POINTER   : REF BBLOCK, ! pointer to map pointers
357 0669 2     MAP_END,      :              ! address of end of map area
358 0670 2     COUNT,       :              ! count field of current retrieval pointer
359 0671 2     LBN,         :              ! LBN field of current retrieval pointer
360 0672 2     RP_COUNT;    :              ! new count field for retrieval pointer
361 0673 2
362 0674 2 EXTERNAL ROUTINE
363 0675 2     RETURN_BLOCKS; ! return blocks to storage map
364 0676 2
365 0677 2
366 0678 2 ! Establish pointers into the file header. If explicit args are applied, use

```

```

: 367 0679 2 ! them; else default to releasing the entire file header.
: 368 0680 2 !
: 369 0681 2 !
: 370 0682 2 MAP_AREA = .HEADER + .HEADER[FM1$B MPOFFSET]*2;
: 371 0683 2 MAP_POINTER = .MAP_AREA + FM1$C POINTERS;
: 372 0684 2 MAP_END = .MAP_POINTER + .MAP_AREA[FM1$B_INUSE]*2;
: 373 0685 2 RP_COUNT = 0;
: 374 0686 2 !
: 375 0687 2 IF ACTUALCOUNT GEQ 4
: 376 0688 2 THEN
: 377 0689 2 BEGIN
: 378 0690 2 MAP_POINTER = .POINTER;
: 379 0691 2 RP_COUNT = .LAST_COUNT;
: 380 0692 2 END;
: 381 0693 2 !
: 382 0694 2 ! Now scan the map area, cleaning out pointers and releasing blocks.
: 383 0695 2 !
: 384 0696 2 !
: 385 0697 2 UNTIL .MAP_POINTER GEQA .MAP_END DO
: 386 0698 2 BEGIN
: 387 0699 2 COUNT = .MAP_POINTER[FM1$B_COUNT] + 1;
: 388 0700 2 LBN = .MAP_POINTER[FM1$W_LOWLBN];
: 389 0701 2 LBN<16,8> = .MAP_POINTER[FM1$B_HIGHLBN];
: 390 0702 2 IF .RP_COUNT NEQ 0
: 391 0703 2 THEN
: 392 0704 2 MAP_POINTER[FM1$B_COUNT] = .RP_COUNT - 1
: 393 0705 2 ELSE
: 394 0706 2 BEGIN
: 395 0707 2 MAP_POINTER[FM1$B_HIGHLBN] = 0;
: 396 0708 2 MAP_POINTER[FM1$B_COUNT] = 0;
: 397 0709 2 MAP_POINTER[FM1$W_LOWLBN] = 0;
: 398 0710 2 MAP_AREA[FM1$B_INUSE] = .MAP_AREA[FM1$B_INUSE] - 2;
: 399 0711 2 END;
: 400 0712 2 !
: 401 0713 2 IF .DEALLOCATE THEN RETURN BLOCKS (.LBN + .RP_COUNT, .COUNT - .RP_COUNT);
: 402 0714 2 FIB[FIB$L_EXSZ] = .FIB[FIB$L_EXSZ] + .COUNT - .RP_COUNT;
: 403 0715 2 RP_COUNT = 0;
: 404 0716 2 MAP_POINTER = .MAP_POINTER + 4;
: 405 0717 2 END;
: 406 0718 2 !
: 407 0719 1 END;

```

! end of routine TRUNCATE\_HEADER

				.EXTRN	RETURN_BLOCKS	
			01FC 0000	.ENTR	TRUNCATE HEADER, Save R2,R3,R4,R5,R6,R7,R8	: 0622
51	08	AC	D0 00002	MOVL	HEADER, R1	: 0682
50	01	A1	9A 00006	MOVZBL	1(R1), R0	: :
53		6140	3E 0000A	MOVAV	(R1)[R0], MAP_AREA	: :
52	0A	A3	9E 0000E	MOVAB	10(R3), MAP_POINTER	: 0683
50	08	A3	9A 00012	MOVZBL	8(MAP_AREA), R0	: 0684
58		6240	3E 00016	MOVAV	(MAP_POINTER)[R0], MAP_END	: :
		56	D4 0001A	CLRL	RP_COUNT	: 0685
04		6C	91 0001C	CMPB	(AP), #4	: 0687
		08	1F 0001F	BLSSU	1\$	: :
52	10	AC	D0 00021	MOVL	POINTER, MAP_POINTER	: 0690

			56	14	AC	D0	00025		MOVL	LAST_COUNT, RP_COUNT	:	0691	
			54	04	AC	D0	00029	1\$:	MOVL	FIB, R4	:	0714	
			58		52	D1	0002D	2\$:	CMPL	MAP_POINTER, MAP_END	:	0697	
					41	1E	00030		BGEQU	6\$	:		
			57	01	A2	9A	00032		MOVZBL	1(MAP_POINTER), COUNT	:	0699	
					57	D6	00036		INCL	COUNT	:		
55	08		55	02	A2	3C	00038		MOVZWL	2(MAP_POINTER), LBN	:	0700	
			10		62	F0	0003C		INSV	(MAP_POINTER), #16, #8, LBN	:	0701	
					56	D5	00041		TSTL	RP_COUNT	:	0702	
					07	13	00043		BEQL	3\$	:		
	01	A2	56		01	83	00045		SUBB3	#1, RP_COUNT, 1(MAP_POINTER)	:	0704	
					06	11	0004A		BRB	4\$	:		
		08			62	D4	0004C	3\$:	CLRL	(MAP_POINTER)	:	0707	
					02	82	0004E		SUBB2	#2, 8(MAP_AREA)	:	0710	
		7E			0C	AC	E9	00052	4\$:	BLBC	DEALLOCATE, 5\$	:	0713
					57	C3	00056		SUBL3	RP_COUNT, COUNT, -(SP)	:		
					66	45	9F	0005A		PUSHAB	(RP_COUNT)[LBN]	:	
		0000G	CF		02	FB	0005D		CALLS	#2, RETURN_BLOCKS	:		
	18	50	57	18	A4	C1	00062	5\$:	ADDL3	24(R4), COUNT, R0	:	0714	
		A4	50		56	C3	00067		SUBL3	RP_COUNT, R0, 24(R4)	:		
					56	D4	0006C		CLRL	RP_COUNT	:	0715	
			52		04	C0	0006E		ADDL2	#4, MAP_POINTER	:	0716	
					BA	11	00071		BRB	2\$	:	0697	
					04	00073	6\$:		RET		:	0719	

; Routine Size: 116 bytes, Routine Base: \$CODE\$ + 01AF

```

: 408      0720 1
: 409      0721 1 END
: 410      0722 0 ELUDOM

```

PSECT SUMMARY

```

: Name Bytes Attributes
: $CODE$ 547 NOVEC,NOWRT, RD, EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

```

Library Statistics

```

: File Total Symbols Loaded Percent Pages Mapped Processing Time
: _$255$DUA28:[SYSLIB]LIB.L32;1 18619 29 0 1000 00:02.0

```

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:TRUNC/OBJ=OBJ\$:TRUNC MSRCS\$:TRUNC/UPDATE=(ENHS\$:TRUNC)

: Size: 547 code + 0 data bytes  
: Run Time: 00:15.3  
: Elapsed Time: 00:33.6  
: Lines/CPU Min: 2835  
: Lexemes/CPU-Min: 14811  
: Memory Used: 184 pages  
: Compilation Complete

FCPDEF B32	ACL CNTRL LIS	ACL SUBR LIS	ACPCNTRL LIS
SNDR LIS	FLIX	FLIBXQP MAP	ACCESS LIS
TRUNC LIS	WTRN LIS	FILESERV MAP	SNDSMB LIS