

CCCCCCCCCCCC	LLL	IIIIIIII	UUU	UUU	TTTTTTTTTTTTTTTT	LLL
CCCCCCCCCCCC	LLL	IIIIIIII	UUU	UUU	TTTTTTTTTTTTTTTT	LLL
CCCCCCCCCCCC	LLL	IIIIIIII	UUU	UUU	TTTTTTTTTTTTTTTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCCCCCCCCCCC	LLLLLLLLLLLLLLLL	IIIIIIII	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	TTTT	LLLLLLLLLLLLLLLL
CCCCCCCCCCCC	LLLLLLLLLLLLLLLL	IIIIIIII	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	TTTT	LLLLLLLLLLLLLLLL
CCCCCCCCCCCC	LLLLLLLLLLLLLLLL	IIIIIIII	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	TTTT	LLLLLLLLLLLLLLLL

SSSSSSSS	EEEEEEEEEE	TTTTTTTTTT	FFFFFFFFFF	IIIIII	LL	EEEEEEEEEE	
SSSSSSSS	EEEEEEEEEE	TTTTTTTTTT	FFFFFFFFFF	IIIIII	LL	EEEEEEEEEE	
SS	EE	TT	FF	II	LL	EE	
SS	EE	TT	FF	II	LL	EE	
SS	EE	TT	FF	II	LL	EE	
SS	EE	TT	FF	II	LL	EE	
SSSSSS	EEEEEEEE	TT	FFFFFFFF	II	LL	EEEEEEEE	
SSSSSS	EEEEEEEE	TT	FFFFFFFF	II	LL	EEEEEEEE	
	EE	TT	FF	II	LL	EE	
	EE	TT	FF	II	LL	EE	
	EE	TT	FF	II	LL	EE	
	EE	TT	FF	II	LL	EE	
	EE	TT	FF	II	LL	EE	
SSSSSSSS	EEEEEEEEEE	TT	FF	IIIIII	LLLLLLLLLL	EEEEEEEEEE	....
SSSSSSSS	EEEEEEEEEE	TT	FF	IIIIII	LLLLLLLLLL	EEEEEEEEEE

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
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LL	II	SSSSSS
LL	II	SSSSSS
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LLLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLLL	IIIIII	SSSSSSSS

```

1 0001 0 MODULE setfile (
2 0002 0
3 0003 0 IDENT = 'V04-000',
4 0004 0 ADDRESSING_MODE(EXTERNAL=GENERAL,
5 0005 0 ) = NONEXTERNAL=LONG_RELATIVE)
6 0006 1 BEGIN
7 0007 1
8 0008 1
9 0009 1 *****
10 0010 1 *
11 0011 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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27 0027 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
28 0028 1 *
29 0029 1 *
30 0030 1 *****
31 0031 1
32 0032 1
33 0033 1 **
34 0034 1 FACILITY: Set File Command
35 0035 1
36 0036 1 ABSTRACT:
37 0037 1
38 0038 1 This module processes the Set File command.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1 Vax native, privileged user mode
43 0043 1
44 0044 1 --
45 0045 1
46 0046 1 AUTHOR: Gerry Smith CREATION DATE: 04-Aug-1981
47 0047 1
48 0048 1 MODIFIED BY:
49 0049 1
50 0050 1 V03-023 AEW0005 Anne E. Warner 24-Jul-1984
51 0051 1 Make /EXPIRATION_DATE and /GLOBAL_BUFFERS check if
52 0052 1 the qualifier is present before trying to get any values
53 0053 1 associated with it. This is needed because these qualifiers
54 0054 1 are now negatable.
55 0055 1
56 0056 1 V03-022 BLS0303 Benn Schreiber 12-APR-1984
57 0057 1 Parse null string after parse in /enter code.

```

58	0058	1	
59	0059	1	
60	0060	1	V03-021 AEW0004 Anne E. Warner 10-Apr-1984 Fix SET FILE/PROTECTION so that it handles wildcarding.
61	0061	1	
62	0062	1	V03-020 MCN0156 Maria del C. Nasr 08-Mar-1984 If the user specifies /VERSION=0, then it should default to the maximum value: 32767. Also, the maximum value is 32767, and not 65535.
63	0063	1	
64	0064	1	
65	0065	1	
66	0066	1	
67	0067	1	V03-019 AEW0003 Anne E. Warner 28-Feb-1984 Add support for search lists. - remove related name block from RMS definitions. - add argument to LIB\$FILE_SCAN
68	0068	1	
69	0069	1	
70	0070	1	
71	0071	1	
72	0072	1	V03-018 LMP0191 L. Mark Pilant, 10-Feb-1984 16:27 Validate the value of the /OWNER qualifier.
73	0073	1	
74	0074	1	
75	0075	1	V03-017 DAS0002 David Solomon 6-Feb-1984 Specify ACESM_NOPROPAGATE for RMSJNLID ACE. Disable /JOURNAL.
76	0076	1	
77	0077	1	
78	0078	1	V03-016 AEW0002 Anne Warner 15-Dec-1983 Add /PROTECTION qualifier with keywords /CONFIRM and /LOG.
79	0079	1	
80	0080	1	
81	0081	1	
82	0082	1	V03-015 JWT0139 Jim Teague 09-Nov-1983 Change the name of two of the RU fields; ensure that we don't leave the file set with conflicting RU attributes.
83	0083	1	
84	0084	1	
85	0085	1	
86	0086	1	
87	0087	1	V03-014 AEW0001 Anne Warner 08-Nov-1983 Add /UNLOCK qualifier with keywords /CONFIRM and /LOG.
88	0088	1	
89	0089	1	
90	0090	1	
91	0091	1	V03-013 DAS0001 David Solomon 29-Jul-1983 Fold /AI JOURNAL, /BI JOURNAL, and /AT JOURNAL into keywords on the /JOURNAL qualifier. /JOURNAL keyword RUM is now ONLY_RU. Add NEVER_RU keyword; a few journaling-related fixes.
92	0092	1	
93	0093	1	
94	0094	1	
95	0095	1	
96	0096	1	V03-012 GAS0147 Gerry Smith 27-Jun-1983 Change the file attribute modification so that it is done thru a IOS MODIFY instead of simply during the IOS_DEACCESS. This is necessary for the case of the version limit, since it cannot be changed on file deaccess.
97	0097	1	
98	0098	1	
99	0099	1	
100	0100	1	
101	0101	1	
102	0102	1	
103	0103	1	V03-011 GAS0141 Gerry Smith 17-Jun-1983 Signal all common qualifiers more completely, so that the specified file can be found.
104	0104	1	
105	0105	1	
106	0106	1	
107	0107	1	V03-010 KPL0002 Peter Lieberwirth 30-May-1983 Change JSBSS_JNLNAM to CJFSC_MXJNLNAML.
108	0108	1	
109	0109	1	
110	0110	1	V03-009 KPL0001 Peter Lieberwirth 20-Apr-1983 Set journal names via new qualifiers AI JOURNAL, BI JOURNAL, and AT JOURNAL. When marking the file for journaling, write an RMSJNLID ACE.
111	0111	1	
112	0112	1	
113	0113	1	
114	0114	1	

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V03-008 GAS0118 Gerry Smith 12-Apr-1983
Add the common qualifiers.

V03-007 GAS0112 Gerry Smith 30-Mar-1983
Convert to the new CLI interface, as well as a new
command dispatcher.

V03-006 TMK0001 Todd M. Katz 28-Feb-1983
If someone requested AI journalling on a file to be turned
off (/JOURNAL=NOAI) then turn it off. Currently, AI Journalling
will always be enabled whenever it is explicitly referred to
(/JOURNAL=AI or /JOURNAL=NOAI), and there is no way to disable
it.

V03-005 GAS0091 Gerry Smith 19-Oct-1982
Change input request for new CLD syntax.

V03-004 GAS0083 Gerry Smith 15-Jul-1982
Modify logic for RU journal option, to agree with
new definition. The RUJNL bit used to have the opposite
sense of all other journal bits. It now has the same sense.

V03-003 GAS0071 Gerry Smith 8-Apr-1982
If the writer count for a file is non-zero, don't allow
modification. If /END is attempted on INDEXF.SYS, don't
allow it.

V03-002 GAS0068 Gerry Smith 31-Mar-1982
If a truncate is attempted on an indexed file, signal
an error.

V03-001 GAS0064 Gerry Smith 19-Mar-1982
Change check of qualifiers to include /GLOBAL_BUFFERS.

V03-005 GAS0050 Gerry Smith 22-Feb-1982
Only access the file header for something besides
/ENTER or /REMOVE. Make the error messages for /ENTER
and /REMOVE more meaningful. Change the /ENTER check for
same devices to use the DVI fields of the NAM blocks.

V03-004 GAS0047 Gerry Smith 15-Feb-1982
For SET FILE/ENTER, parse the new file name here, after
the old file name is available, so that stickiness can
be applied.

V03-003 GAS0038 Gerry Smith 2-Feb-1982
Add /GLOBAL_BUFFERS, the global buffer count for a
file. Also, if the file is ODS1, then move the record
attributes to the location occupied in an ODS2 file.
This allows the BIND in routine SET_ATTRIBUTES to apply
to both kinds of file headers.

V03-002 GAS0026 Gerry Smith 18-Dec-1981
Use shared message file, and lower fatal messages to
simple error messages.

V03-001 GAS0024 Gerry Smith 14-Dec-1981

SETFILE
V04-000

F 3
16-Sep-1984 00:53:51 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:09:07 [CLIUTL.SRC]SETFILE.B32;1

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172	0172	1	Fix /LOG logic for /ENTER and /REMOVE		
173	0173	1			
174	0174	1	V03-001 MSH0001	Maryann Hinden	02-Dec-1981
175	0175	1	Change references to FIBSC_SIZE to FIBSC_LENGTH.		
176	0176	1			
177	0177	1	V03-001 GAS0021	Gerry Smith	30-Nov-1981
178	0178	1	Fix /VERSION, making FIB larger		
179	0179	1			
180	0180	1	V03-001 GAS0018	Gerry Smith	16-Nov-1981
181	0181	1	Split SET FILE into separate modules		
182	0182	1			
183	0183	1	V03-001 GAS0011	Gerry Smith	22-Sep-1981
184	0184	1	Fix wildcarding for /ENTER. Add /END_OF_FILE		
185	0185	1			
186	0186	1	V03-002 GAS0012	Gerry Smith	30-Sep-1981
187	0187	1	Add /LOG and /CONFIRM		
188	0188	1			
189	0189	1			

SETFILE
V04-000

G 3
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

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: 191
: 192
: 193

0190 1 LIBRARY 'SYSS\$LIBRARY:LIB';
0191 1 LIBRARY 'SYSS\$LIBRARY:CLIMAC.L32';
0192 1

. CLI macros

```

195 0193 1 FORWARD ROUTINE
196 0194 1   set$file : NOVALUE,
197 0195 1   get_qual,
198 0196 1   set_attributes,
199 0197 1
200 0198 1   unlock_action,
201 0199 1   check_privilege : NOVALUE,
202 0200 1   search_error,
203 0201 1   file_error,
204 0202 1   setpro_action,
205 0203 1   prot_log_results,
206 0204 1   expand_prot,
207 0205 1   parse_class;
208 0206 1
209 0207 1 EXTERNAL ROUTINE
210 0208 1   parse_uic,
211 0209 1   cli$present,
212 0210 1   cli$get_value,
213 0211 1   lib$cvt_dtb,
214 0212 1   lib$cvt_time,
215 0213 1   lib$file_scan,
216 0214 1   lib$qual_file_parse,
217 0215 1   lib$qual_file_match,
218 0216 1   lib$confirm_act,
219 0217 1   lib$get_command,
220 0218 1   lib$unlock_file,
221 0219 1   sys$fao,
222 0220 1   sys$setprv,
223 0221 1   lib$set_file_prot;
224 0222 1
225 0223 1
226 0224 1   Literal data definitions
227 0225 1
228 0226 1 LITERAL
229 0227 1   true = 1;
230 0228 1   false = 0;
231 0229 1
232 0230 1 MACRO
233 0231 1
234 0232 1   Macro definitions for fields in access control entries needed by RMS
235 0233 1   Journaling
236 0234 1
237 0235 1   id_ace$s_size = 32 %,
238 0236 1   id_ace$t_label = 4,0,0,0 %,
239 0237 1   id_ace$w_num = 16,0,16,0 %,
240 0238 1   id_ace$w_seq = 18,0,16,0 %,
241 0239 1   id_ace$w_rvn = 20,0,16,0 %,
242 0240 1   id_ace$q_time = 24,0,32,0 %,
243 0241 1   ace$t_jnlnam = 4,0,0,0 %,
244 0242 1
245 0243 1   A) Macro to describe a string
246 0244 1   B) Macro to generate a quadword string descriptor
247 0245 1   C) Macro to generate the address of a string descriptor
248 0246 1
249 0247 1   PRIMDESC (str) = %CHARCOUNT (str), UPLIT (%ASCII str)%,
250 0248 1   INITDESC (str) = %BLOCK [DSC$C S BLN] INITIAL (PRIMDESC (str))%,
251 0249 1   ADDRDESC (str) = UPLIT (PRIMDESC (str))%;

```

```

: Main routine for file
: Get qualifiers
: Routine to set file attributes
: Common routines:
: Called to control each UNLOCK action
: Routine to check for privilege
: Where to go if file search fails
: Where to go if file error occur
: Called to control each file PROTECTION
: Called when user requests a log for PROTECTION
: Converts binary protection to ascii
: Parses the protection of one user class

: Convert a UIC
: Get qualifiers
: Get values of qualifiers
: Convert ASCII to numerical
: Convert time to internal
: Routine to find next file
: Parse common qualifiers
: Check for common qualifiers
: Confirm action with user
: Talk to SYSSCOMMAND
: Unlocks files
: Expands formatted messages
: Set privileges for protection
: Set file protection

```

SETFILE
V04-000

: 252
: 253

0250 1
0251 1

I 3
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

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```

255 0252 1  ::
256 0253 1  :: Define the data that is used by SET FILE
257 0254 1  ::
258 0255 1  GLOBAL
259 0256 1  setfile$flags : BITVECTOR[32] INITIAL(0),      ! Qualifier bits word
260 0257 1  setfile$dflags : BITVECTOR[32] INITIAL(0),  ! DATA CHECK options word
261 0258 1  setfile$jflags : BITVECTOR[32] INITIAL(0),  ! JOURNAL options word
262 0259 1  setfile$mflags : BITVECTOR[32] INITIAL(0), ! Miscellaneous flags word
263 0260 1  setpro_prot   : WORD          INITIAL(0),    ! Contains /PROTECTION value
264 0261 1  setpro_mask   : WORD          INITIAL(0),    ! Contains /PROTECTION mask
265 0262 1  global_prot  : WORD,
266 0263 1  global_mask  : WORD,
267 0264 1  exp_value   : $BBLOCK[8],
268 0265 1  ext_value   :
269 0266 1  gbuf_value  :
270 0267 1  uic_value   :
271 0268 1  group       :
272 0269 1  member      :
273 0270 1  vrsn_value  :
274 0271 1  rename_buf  : VECTOR[nam$c_maxrss, BYTE], ! Name buffer for /ENTER
275 0272 1  file_name   : VECTOR[2],
276 0273 1  ai_jnl_name  : VECTOR[cjfc_mxjnl_nam, BYTE], ! AI journal name
277 0274 1  at_jnl_name  : VECTOR[cjfc_mxjnl_nam, BYTE], ! AT journal name
278 0275 1  bi_jnl_name  : VECTOR[cjfc_mxjnl_nam, BYTE], ! BI journal name
279 0276 1  ai_jnl_desc  : $BBLOCK[dsc$c_s_bln]
280 0277 1  PRESET( [dsc$a_pointer] = ai_jnl_name ), ! AI_JOURNAL descriptor
281 0278 1  at_jnl_desc  : $BBLOCK[dsc$c_s_bln]
282 0279 1  PRESET( [dsc$a_pointer] = at_jnl_name ), ! AT_JOURNAL descriptor
283 0280 1  bi_jnl_desc  : $BBLOCK[dsc$c_s_bln]
284 0281 1  PRESET( [dsc$a_pointer] = bi_jnl_name ), ! BI_JOURNAL descriptor
285 0282 1  worst_error  : $BBLOCK[4] INITIAL(ss$normal), ! Worst error reported
286 0283 1  conf_desc   : $BBLOCK[dsc$c_s_bln],
287 0284 1  ! Descriptor for /LOG/CONFIRM
288 0285 1  oldpriv     : $BBLOCK[8], ! Permanent priv's stored here
289 0286 1  newpriv    : $BBLOCK[8], ! Mask describing system priv
290 0287 1  PRESET ([prv$v_sysprv]=true), ! Initialize this bit
291 0288 1  ::
292 0289 1  :: RMS storage
293 0290 1  ::
294 0291 1  file_result  : VECTOR[nam$c_maxrss, BYTE], ! Resultant name string
295 0292 1  file_expanded : VECTOR[nam$c_maxrss, BYTE], ! Expanded name string
296 P 0293 1  file_name   : $NAM(
297 P 0294 1  ESA = file_expanded,
298 P 0295 1  ESS = nam$c_maxrss,
299 P 0296 1  RSA = file_result,
300 0297 1  RSS = nam$c_maxrss), ! File name after open
301 P 0298 1  file_fab   : $FAB(
302 0299 1  NAM = file_name), ! FAB for file
303 0300 1  ! Specify name block
304 0301 1  ::
305 0302 1  :: Declare the context block used by the common qualifiers
306 0303 1  ::
307 0304 1  OWN
308 0305 1  context;

```

```

310      0306 1  !
311      0307 1  !: Declare the qualifier flag bits used by SET FILE
312      0308 1  !
313      0309 1  LITERAL
314      P 0310 1  SEQULST(QUAL,..1,1,
315      P 0311 1  (backup,).
316      P 0312 1  (nobackup,).
317      P 0313 1  (confirm,).
318      P 0314 1  (data,).
319      P 0315 1  (eof,).
320      P 0316 1  (erase,).
321      P 0317 1  (noerase,).
322      P 0318 1  (expi,).
323      P 0319 1  (exte,).
324      P 0320 1  (gbuf,).
325      P 0321 1  (journal,).
326      P 0322 1  (log,).
327      P 0323 1  (nodi,).
328      P 0324 1  (owner,).
329      P 0325 1  (parent,).
330      P 0326 1  (protection,).
331      P 0327 1  (trunc,).
332      P 0328 1  (unlock,).
333      P 0329 1  (vrsn,).
334      P 0330 1  (enter,).
335      P 0331 1  (remove,).
336      P 0332 1  (quit,).
337      P 0333 1  (quit_mod,).
338      P 0334 1  (quit_rem,).
339      P 0335 1  (quit_ent,).
340      P 0336 1  (quit_protect,).
341      0337 1  (quit_unlock,));
342      0338 1  !
343      0339 1  !: Declare the DATA_CHECK option bits
344      0340 1  !
345      0341 1  !
346      0342 1  LITERAL
347      P 0343 1  SEQULST
348      P 0344 1  (DATA,..1,1,
349      P 0345 1  (read,).
350      P 0346 1  (write,).
351      P 0347 1  (noread,).
352      0348 1  (nowrite,));
353      0349 1  !
354      0350 1  !: Declare the JOURNAL option bits
355      0351 1  !
356      0352 1  !
357      0353 1  LITERAL
358      P 0354 1  SEQULST
359      P 0355 1  (JRNL,..1,1,
360      P 0356 1  (ai,).
361      P 0357 1  (specified_ai,).
362      P 0358 1  (at,).
363      P 0359 1  (specified_at,).
364      P 0360 1  (bi,).
365      P 0361 1  (specified_bi,).
366      P 0362 1  (ru,).

```

```

! DATA_CHECK = READ
! DATA_CHECK = WRITE
! DATA_CHECK = NOREAD
! DATA_CHECK = NOWRITE

```

```

367 P 0363 1 (specified_ru,).
368 P 0364 1 (only_ru,).
369 P 0365 1 (specified_only_ru,).
370 P 0366 1 (never_ru,).
371 P 0367 1 (specified_never_ru,).
372 P 0368 1 (ai_name,).
373 P 0369 1 (at_name,).
374 P 0370 1 (bi_name,).
375 0371 1 );
376 0372 1
377 0373 1
378 0374 1 : Declare the miscellaneous flags
379 0375 1
380 0376 1 LITERAL
381 P 0377 1 $EQUAST
382 P 0378 1 (MISC_1,1,
383 P 0379 1 (mark_file,).
384 0380 1 (already_rmsjnlid,));
385 0381 1
386 0382 1
387 0383 1 : Declare the error messages
388 0384 1
389 0385 1 : Definitions in [CLIUTL.SRC]SET.MSG
390 0386 1
391 0387 1 EXTERNAL LITERAL
392 0388 1 lib$_quiconact, : Quit asking for confirmation
393 0389 1 lib$_negans, : Negative response to confirmation
394 0390 1 lib$_quipro, : Quit processing
395 0391 1 lib$_filfaimat, : Common qualifier match failed
396 0392 1 cli$_ivprot, : Invalid protection
397 0393 1 cli$_negated, : Value explicitly negated
398 0394 1 cli$_absent, : Value not present and no default
399 0395 1 set$_operreq, : OPER required
400 0396 1 set$_closeerr, : Could not close file
401 0397 1 set$_entered, : File entered in a directory
402 0398 1 set$_enterr, : Error entering file
403 0399 1 set$_modified, : File/directory modified
404 0400 1 set$_nonode, : Node specification not allowed
405 0401 1 set$_notdir, : Not a directory
406 0402 1 set$_notlocked, : File not locked
407 0403 1 set$_notods2, : Not an ODS2 structure
408 0404 1 set$_opendir, : Could not open parent directory
409 0405 1 set$_pronotchg, : Error message - "Protection not changed"
410 0406 1 set$_proerr, : Error in changing the protection
411 0407 1 set$_protected, : Informational log message for protection
412 0408 1 set$_readerr, : Error reading the file
413 0409 1 set$_remerr, : Could not remove file
414 0410 1 set$_removed, : Directory entry removed
415 0411 1 set$_unlockerr, : Could not lock file
416 0412 1 set$_writeerr, : Error modifying file
417 0413 1 set$_unlocked; : File unlocked
418 0414 1
419 0415 1 : Define messages from the shared message facility
420 0416 1
421 P 0417 1 $SHR_MSGDEF (set, 119, global,
422 P 0418 1 (badlogic, severe), : Fatal internal software error
423 P 0419 1 (badvalue, error), : Invalid keyword value

```

SETFILE
V04-000

M 3
16-Sep-1984 00:53:51 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:09:07 [CLIUTL.SRC]SETFILE.B32;1

: 424 P 0420 i
: 425 P 0421 1
: 426 P 0422 1
: 427 P 0423 1
: 428 P 0424 1
: 429 P 0425 1
: 430 0426 1

(valerr, error),
(syntax, error),
(confqual, error),
(delver, error),
(notrunc, error),
(openin, error),
(searchfail, error));

: Value out of range
: Syntax problem
: Conflicting qualifiers
: Explicit version number required
: Truncation not allowed
: Error opening a file
: Error searching for a file

```

432 0427 1 GLOBAL ROUTINE set$file : NOVALUE =
433 0428 1
434 0429 1 |**
435 0430 1 |
436 0431 1 | Functional description
437 0432 1 |
438 0433 1 |     This is the main control module.  It calls LIB$FILE_SCAN to perform
439 0434 1 |     the necessary functions on the file(s) specified in the call to SET.
440 0435 1 |
441 0436 1 | Calling sequence
442 0437 1 |
443 0438 1 |     CALL set$file()
444 0439 1 |
445 0440 1 | Input parameters
446 0441 1 |     none
447 0442 1 |
448 0443 1 | Output parameters
449 0444 1 |     none
450 0445 1 |
451 0446 1 | Implicit outputs
452 0447 1 |     none
453 0448 1 |
454 0449 1 | Routine value
455 0450 1 |     none
456 0451 1 |
457 0452 1 | Side effects
458 0453 1 |     none
459 0454 1 |
460 0455 1 | --
461 0456 1 |
462 0457 2 BEGIN
463 0458 2
464 0459 2 LOCAL
465 0460 2     desc : $BLOCK[dsc$c_s_bln],
466 0461 2     scan_context,           ! Sticky context argument for FILE$SCAN
467 0462 2     status;
468 0463 2
469 0464 2 |
470 0465 2 | Check to make sure that the image is running with correct privilege.
471 0466 2 |
472 0467 2 | check_privilege();
473 0468 2 |
474 0469 2 |
475 0470 2 | Get the common qualifiers
476 0471 2 |
477 0472 2 | status = lib$qual_file_parse(%REF(lib$m_cqf_exclude OR
478 0473 2 |     lib$m_cqf_before OR
479 0474 2 |     lib$m_cqf_since OR
480 0475 2 |     lib$m_cqf_created OR
481 0476 2 |     lib$m_cqf_modified OR
482 0477 2 |     lib$m_cqf_byowner),
483 0478 2 |     context);
484 0479 2 | IF NOT .status
485 0480 2 | THEN (SIGNAL(.status); RETURN);
486 0481 2 |
487 0482 2 |
488 0483 2 | Now to get all the command qualifiers.

```

```

489 0484 2  !
490 0485 2  IF NOT get_qual()
491 0486 2  THEN RETURN;
492 0487 2  !
493 0488 2  !
494 0489 2  ! Check to make sure that conflicting qualifiers were not specified. If
495 0490 2  ! they were, signal an error and stop.
496 0491 2  !
497 0492 2  !
498 0493 2  IF .setfile$flags[qual_data]
499 0494 2  THEN
500 0495 2  IF .setfile$dflags[data_read] AND .setfile$dflags[data_noread]
501 0496 2  OR .setfile$dflags[data_write] AND .setfile$dflags[data_nowrite]
502 0497 2  THEN SIGNAL_STOP(set$_confqual);
503 0498 2  !
504 0499 2  IF .setfile$flags[qual_journal]
505 0500 2  THEN
506 0501 2  IF ( .setfile$jflags[jrnl_ru] AND .setfile$jflags[jrnl_only_ru] )
507 0502 2  OR ( .setfile$jflags[jrnl_ru] AND .setfile$jflags[jrnl_never_ru] )
508 0503 2  OR ( .setfile$jflags[jrnl_only_ru] AND .setfile$jflags[jrnl_never_ru] )
509 0504 2  THEN SIGNAL_STOP(set$_confqual);
510 0505 2  !
511 0506 2  !
512 0507 2  ! Next, for each file specified, find the file and perform the operations
513 0508 2  ! requested.
514 0509 2  !
515 0510 2  scan_context = 0; ! Argument must be zero for file scan
516 0511 2  $init_dyndesc(desc); ! Make a dynamic descriptor
517 0512 2  WHILE cli$get_value(%ASCID 'FILE', desc)
518 0513 2  AND NOT .setfile$flags[qual_quit] DO
519 0514 2  BEGIN
520 0515 2  file_fab[fab$b_fns] = .desc[dsc$w_length];
521 0516 2  file_fab[fab$l_fna] = .desc[dsc$a_pointer];
522 0517 2  lib$file_scan( ! For each file found,
523 0518 2  file_fab, ! Use this fab
524 0519 2  set_attributes, ! Go here if file found
525 0520 2  search_error, ! Go here if error
526 0521 2  scan_context)
527 0522 2  END;
528 0523 2  !
529 0524 2  RETURN;
530 0525 1  END; ! End of routine set$file

```

```

.TITLE SETFILE
.IDENT \V04-000\
.PSECT $SPLITS,NOWRT,NOEXE,2

```

```

45 4C 49 46 0000 P.AAB: .ASCII \FILE\
010E0004 00004 P.AAA: .LONG 17694724
00000000 00008 .ADDRESS P.AAB

```

```

.PSECT $OWNS,NOEXE,2

```

```

00000 CONTEXT:.BLKB 4

```



```

00000000 00428 .LONG 0
00000000 0042C .ADDRESS FILE_NAM
00000000 00430 .LONG 0
00000000 00434 .LONG 0
      00 00438 .BYTE 0
      00 00439 .BYTE 0
    0000 0043A .WORD 0
00000000 0043C .LONG 0
      0000 00440 .WORD 0
      00 00442 .BYTE 0
      00 00443 .BYTE 0
00000000 00444 .LONG 0
0C000000 00448 .LONG 0
      0000 0044C .WORD 0
      00 0044E .BYTE 0
      00 0044F .BYTE 0
00000000 00450 .LONG 0

```

```

SETS_BADLOGIC== 7803172
SETS_BADVALUE== 7803154
SETS_VALERR== 7803370
SETS_SYNTAX== 7803130
SETS_CONFQUAL== 7803618
SETS_DELVER== 7803402
SETS_NOTRUNC== 7803650
SETS_OPENIN== 7803034
SETS_SEARCHFAIL== 7803450

```

```

.EXTRN PARSE_UIC, CLIS$PRESENT
.EXTRN CLIS$GET_VALUE, LIB$CVT_DTB
.EXTRN LIB$CVT_TIME, LIB$FILE_SCAN
.EXTRN LIB$QUAC_FILE_PARSE
.EXTRN LIB$QUAL_FILE_MATCH
.EXTRN LIB$CONFIRM_ACT
.EXTRN LIB$GET_COMMAND
.EXTRN LIB$UNLOCK_FILE
.EXTRN SYSS$FAO, SYSS$SETPRV
.EXTRN LIB$SET_FILE_PROT
.EXTRN LIB$QUITONACT, LIB$NEGANS
.EXTRN LIB$QUIPRO, LIB$FIC$FAIMAT
.EXTRN CLIS$IVPROT, CLIS$NEGATED
.EXTRN CLIS$ABSENT, SETS$OPERREQ
.EXTRN SETS$CLOSEERR, SETS$ENTERED
.EXTRN SETS$ENTERR, SETS$MODIFIED
.EXTRN SETS$NONODE, SETS$NOTDIR
.EXTRN SETS$NOTLOCKED, SETS$NOTODS2
.EXTRN SETS$OPENDIR, SETS$PRONOTCHG
.EXTRN SETS$PROERR, SETS$PROTECTED
.EXTRN SETS$READERR, SETS$REMERR
.EXTRN SETS$REMOVED, SETS$UNLOCKERR
.EXTRN SETS$WRITEERR, SETS$UNLOCKED

```

.PSECT \$CODE\$,NOWRT,2

```

53 00000000G 000C 00000
52 00000000' 00 9E 00002
5E          10 C2 00010

```

```

.ENTRY SETS$FILE, Save R2,R3
MOVAB LIB$STOP, R3
MOVAB SETFILES$JFLAGS, R2
SUBL2 #16, SP

```

.....

: 0427
:
:
:

00000000V	EF	00000000'	00	FB	00013	CALLS	#0, CHECK_PRIVILEGE	:	0467
	04	AE	013E	EF	9F 0001A	PUSHAB	CONTEXT	:	0472
			04	8F	3C 00020	MOVZWL	#318, 4(SP)	:	0476
00000000G	00			AE	9F 00026	PUSHAB	4(SP)	:	0472
	0A			02	FB 00029	CALLS	#2, LIB\$QUAL_FILE_PARSE	:	
				50	E8 00030	BLBS	STATUS, 1\$	:	0479
00000000G	00			50	DD 00033	PUSHL	STATUS	:	0480
				01	FB 00035	CALLS	#1, LIB\$SIGNAL	:	
				04	0003C	RET		:	
00000000V	EF		00	FB	0003D	CALLS	#0, GET_QUALS	:	0485
	68		50	E9	00044	BLBC	R0, 9\$:	
1D	FB	A2	04	E1	00047	BBC	#4, SETFILES\$FLAGS, 4\$	:	0493
05	FC	A2	01	E1	0004C	BBC	#1, SETFILES\$D_FLAGS, 2\$	:	0495
0A	FC	A2	03	E0	00051	BBS	#3, SETFILES\$D_FLAGS, 3\$:	
0E	FC	A2	02	E1	00056	BBC	#2, SETFILES\$D_FLAGS, 4\$	:	0496
09	FC	A2	04	E1	00058	BBC	#4, SETFILES\$D_FLAGS, 4\$:	
		007712E2	8F	DD	00060	PUSHL	#7803618	:	0497
		63	01	FB	00066	CALLS	#1, LIB\$STOP	:	
23	F9	A2	03	E1	00069	BBC	#3, SETFILES\$FLAGS+1, 7\$	:	0499
			62	95	0006E	TSTB	SETFILES\$JFLAGS	:	0501
			0C	18	00070	BGEQ	5\$:	
11	01	A2	01	E0	00072	BBS	#1, SETFILES\$JFLAGS+1, 6\$:	
			05	18	00077	BGEQ	5\$	:	0502
0A	01	A2	03	E0	00079	BBS	#3, SETFILES\$JFLAGS+1, 6\$:	
0E	01	A2	01	E1	0007E	BBC	#1, SETFILES\$JFLAGS+1, 7\$	:	0503
09	01	A2	03	E1	00083	BBC	#3, SETFILES\$JFLAGS+1, 7\$:	
		007712E2	8F	DD	00088	PUSHL	#7803618	:	0504
		63	01	FB	0008E	CALLS	#1, LIB\$STOP	:	
		04	AE	D4	00091	CLRL	SCAN CONTEXT	:	0510
	08	AE	8F	D0	00094	MOVL	#34471936, DESC	:	0511
		0C	AE	D4	0009C	CLRL	DESC+4	:	
		08	AE	9F	0009F	PUSHAB	DESC	:	0512
		00000000'	EF	9F	000A2	PUSHAB	P.AAA	:	
00000000G	00		02	FB	000A8	CALLS	#2, CLIS\$GET_VALUE	:	
	2D		50	E9	000AF	BLBC	R0, 10\$:	
28	FA	A2	06	E0	000B2	BBS	#6, SETFILES\$FLAGS+2, 10\$	:	0513
	0430	C2	08	AE	90 000B7	MOVB	DESC, FILE FAB+52	:	0515
	0428	C2	0C	AE	D0 000BD	MOVL	DESC+4, FILE FAB+44	:	0516
			04	AE	9F 000C3	PUSHAB	SCAN CONTEXT	:	0517
		00000000V	EF	9F	000C6	PUSHAB	SEARCH ERROR	:	
		00000000V	EF	9F	000CC	PUSHAB	SET ATTRIBUTES	:	
		03FC	C2	9F	000D2	PUSHAB	FILE FAB	:	
00000000G	00		04	FB	000D6	CALLS	#4, LIB\$FILE_SCAN	:	
			C0	11	000DD	BRB	8\$:	
			04	000DF	10\$:	RET		:	0525

: Routine Size: 224 bytes, Routine Base: \$CODE\$ + 0000

```

532 0526 1 ROUTINE get_qual =
533 0527 1 :++
534 0528 1 :
535 0529 1 : This routine gets all the qualifiers and values.
536 0530 1 :
537 0531 1 :
538 0532 2 BEGIN
539 0533 2
540 0534 2 LOCAL
541 0535 2     status,
542 0536 2     desc : $BBLOCK[dsc$_s_bln];
543 0537 2
544 0538 2 $init_dyndesc(desc);           ! Make a dynamic descriptor
545 0539 2
546 0540 2 :
547 0541 2 : / [NO]BACKUP
548 0542 2 :
549 0543 2 status = cli$present(%ASCID 'BACKUP');
550 0544 2 IF .status
551 0545 2 THEN setfile$flags[qual_backup] = 1
552 0546 2 ELSE IF .status EQL cli$_negated
553 0547 2 THEN setfile$flags[qual_nobackup] = 1;
554 0548 2
555 0549 2 :
556 0550 2 : /CONFIRM
557 0551 2 :
558 0552 2 IF cli$present(%ASCID 'CONFIRM')
559 0553 2 THEN setfile$flags[qual_confirm] = 1;
560 0554 2
561 0555 2 :
562 0556 2 : /DATA_CHECK
563 0557 2 :
564 0558 2 IF cli$present(%ASCID 'DATA_CHECK')
565 0559 2 THEN
566 0560 2     BEGIN
567 0561 2     setfile$flags[qual_data] = 1;
568 0562 2     IF NOT cli$get_value(%ASCID 'DATA_CHECK', desc)
569 0563 2     THEN setfile$dflags[data_write] = 1
570 0564 2     ELSE INCR i FROM 0 TO 1 DO
571 0565 2     BEGIN
572 0566 2     IF CH$EQL(.desc[dsc$_w_length], .desc[dsc$_a_pointer],
573 0567 2     .desc[dsc$_w_length], UPLIT(BYTE('WRITE'))))
574 0568 2     THEN setfile$dflags[data_write] = 1
575 0569 2     ELSE IF CH$EQL(.desc[dsc$_w_length], .desc[dsc$_a_pointer],
576 0570 2     .desc[dsc$_w_length], UPLIT(BYTE('READ'))))
577 0571 2     THEN setfile$dflags[data_read] = 1
578 0572 2     ELSE
579 0573 2     BEGIN
580 0574 2     SIGNAL(set$_syntax, 1, desc);
581 0575 2     RETURN false;
582 0576 2     END;
583 0577 2     IF NOT cli$get_value(%ASCID 'DATA_CHECK', desc)
584 0578 2     THEN EXITLOOP
585 0579 2     END;
586 0580 2     END;
587 0581 2
588 0582 2 :

```

```

589 0587 2  : /ENTER
590 0588 2  :
591 0585 2  IF cli$get_value(%ASCID 'ENTER', desc)
592 0586 2  THEN
593 0587 2  BEGIN
594 0588 2  setfile$flags[qual_enter] = 1;
595 0589 2  CH$MOVE(.desc[dsc$w_length],
596 0590 2  .desc[dsc$a_pointer],
597 0591 2  rename_buf);
598 0592 2  file_name[0] = .desc[dsc$w_length];
599 0593 2  file_name[1] = .desc[dsc$a_pointer];
600 0594 2  $init_dyndesc(desc);
601 0595 2  END;
602 0596 2  :
603 0597 2  :
604 0598 2  : /END_OF_FILE
605 0599 2  :
606 0600 2  IF cli$present(%ASCID 'END_OF_FILE')
607 0601 2  THEN setfile$flags[qual_eof] = 1;
608 0602 2  :
609 0603 2  :
610 0604 2  : /[NO]ERASE_ON_DELETE
611 0605 2  :
612 0606 2  status = cli$present(%ASCID 'ERASE_ON_DELETE');
613 0607 2  IF .status
614 0608 2  THEN setfile$flags[qual_erase] = 1
615 0609 2  ELSE IF .status EQL cli$negated
616 0610 2  THEN setfile$flags[qual_noerase] = 1;
617 0611 2  :
618 0612 2  :
619 0613 2  : /EXPIRATION_DATE
620 0614 2  :
621 0615 2  IF cli$present(%ASCID 'EXPIRATION_DATE')
622 0616 2  THEN
623 0617 2  IF cli$get_value(%ASCID 'EXPIRATION_DATE', desc)
624 0618 2  THEN
625 0619 2  BEGIN
626 0620 2  setfile$flags[qual_expi] = 1;
627 0621 2  IF NOT lib$cvt_time(desc, exp_value)
628 0622 2  THEN
629 0623 2  BEGIN
630 0624 2  SIGNAL(set$syntax, 1, desc);
631 0625 2  RETURN false;
632 0626 2  END;
633 0627 2  END;
634 0628 2  :
635 0629 2  :
636 0630 2  : /EXTENSION
637 0631 2  :
638 0632 2  IF cli$present(%ASCID 'EXTENSION')
639 0633 2  THEN
640 0634 2  BEGIN
641 0635 2  setfile$flags[qual_exte] = 1;
642 0636 2  exte_value = 5;
643 0637 2  IF cli$get_value(%ASCID 'EXTENSION', desc)
644 0638 2  THEN
645 0639 2  BEGIN

```

```

: 646      0640      4      IF NOT lib$cvl_dtb(.desc[dsc$w_length],
: 647      0641      4              .desc[dsc$a_pointer],
: 648      0642      4              exte_value)
: 649      0643      4      THEN
: 650      0644      3          BEGIN
: 651      0645      3              SIGNAL(set$syntax, 1, desc);
: 652      0646      5              RETURN false;
: 653      0647      4              END;
: 654      0648      4      IF .exte_value LSS 0
: 655      0649      4      OR .exte_value GTR 65535
: 656      0650      4      THEN
: 657      0651      3          BEGIN
: 658      0652      3              SIGNAL(set$syntax, 1, desc, set$valerr);
: 659      0653      5              RETURN false;
: 660      0654      4              END;
: 661      0655      3          END;
: 662      0656      2      END;
: 663      0657      2
: 664      0658      2      :
: 665      0659      2      /GLOBAL_BUFFERS
: 666      0660      2      :
: 667      0661      2      IF cli$present(%ASCID 'GLOBAL_BUFFERS')
: 668      0662      2      THEN
: 669      0663      2          IF cli$get_value(%ASCID 'GLOBAL_BUFFERS', desc)
: 670      0664      2          THEN
: 671      0665      2              BEGIN
: 672      0666      2                  setfile$flags[qual_gbuf] = 1;
: 673      0667      2                  IF NOT lib$cvl_dtb(.desc[dsc$w_length],
: 674      0668      2                      .desc[dsc$a_pointer],
: 675      0669      2                      gbuf_value)
: 676      0670      2                  THEN
: 677      0671      2                      BEGIN
: 678      0672      2                          SIGNAL(set$syntax, 1, desc);
: 679      0673      2                          RETURN false;
: 680      0674      2                          END;
: 681      0675      2                  IF .gbuf_value GTR 65535
: 682      0676      2                  OR .gbuf_value LSS 0
: 683      0677      2                  THEN
: 684      0678      2                      BEGIN
: 685      0679      2                          SIGNAL(set$syntax, 1, desc, set$valerr);
: 686      0680      2                          RETURN false;
: 687      0681      2                          END;
: 688      0682      2                  END;
: 689      0683      2              END;
: 690      0684      2          :
: 691      0685      2          /JOURNAL
: 692      0686      2          :
: 693      0687      2          begin                                !!JNL!!
: 694      0688      2          global set$gl_journaling;                !!JNL!!
: 695      0689      2          if .set$gl_journaling                            !!JNL!!
: 696      0690      2          then                                            !!JNL!!
: 697      0691      2          IF cli$present(%ASCID 'JOURNAL')
: 698      0692      2          THEN
: 699      0693      2              BEGIN
: 700      0694      2                  setfile$flags[qual_journal] = 1;
: 701      0695      2              :
: 702      0696      2              !

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```
! /JOURNAL=AI=ai_journal_name
status = cli$present( %ASCID 'JOURNAL.AI', desc );
IF .status NEQU cli$_absent
THEN
  BEGIN
    setfile$jflags[jrnl_specified_ai] = 1;
    IF .status
    THEN
      setfile$jflags[jrnl_ai] = 1
    ELSE if .status EQLU cli$_negated
    THEN
      setfile$jflags[jrnl_ai] = 0;
    IF cli$get_value( %ASCID 'JOURNAL.AI', desc )
    THEN
      BEGIN
        IF .desc[dsc$w_length] GTRU cjf$c_mxjnl_naml
        THEN
          SIGNAL( set$_badvalue, 1, desc );
          setfile$jflags[jrnl_ai_name] = 1;
          ai_jnl_desc[dsc$w_length] = .desc[dsc$w_length];
          CH$MOVE( .desc[dsc$w_length], .desc[dsc$a_pointer], ai_jnl_name );
        END;
      END;
  ! /JOURNAL=AT=at_journal_name
status = cli$present( %ASCID 'JOURNAL.AT', desc );
IF .status NEQU cli$_absent
THEN
  BEGIN
    setfile$jflags[jrnl_specified_at] = 1;
    IF .status
    THEN
      setfile$jflags[jrnl_at] = 1
    ELSE if .status EQLU cli$_negated
    THEN
      setfile$jflags[jrnl_at] = 0;
    IF cli$get_value( %ASCID 'JOURNAL.AT', desc )
    THEN
      BEGIN
        IF .desc[dsc$w_length] GTRU cjf$c_mxjnl_naml
        THEN
          SIGNAL( set$_badvalue, 1, desc );
          setfile$jflags[jrnl_at_name] = 1;
          at_jnl_desc[dsc$w_length] = .desc[dsc$w_length];
          CH$MOVE( .desc[dsc$w_length], .desc[dsc$a_pointer], at_jnl_name );
        END;
      END;
  ! /JOURNAL=BI=bi_journal_name
status = cli$present( %ASCID 'JOURNAL.BI', desc );
IF .status NEQU cli$_absent
THEN
```

```

: 760      0754 5      BEGIN
: 761      0755 5      setfile$jflags[jrnl_specified_bi] = 1;
: 762      0756 5      IF .status
: 763      0757 5      THEN
: 764      0758 5          setfile$jflags[jrnl_bi] = 1
: 765      0759 5      ELSE if .status EQLU cli$_negated
: 766      0760 5      THEN
: 767      0761 5          setfile$jflags[jrnl_bi] = 0;
: 768      0762 5      IF cli$_get_value( %ASCID 'JOURNAL.BI', desc )
: 769      0763 5      THEN
: 770      0764 6          BEGIN
: 771      0765 6              IF .desc[dsc$_length] GTRU cjf$_c_mxjnl_naml
: 772      0766 6              THEN
: 773      0767 6                  SIGNAL( set$_badvalue, 1, desc );
: 774      0768 6                  setfile$jflags[jrnl_bi_name] = 1;
: 775      0769 6                  bi_jnl_desc[dsc$_length] = .desc[dsc$_length];
: 776      0770 6                  CHSMOVE( .desc[dsc$_length], .desc[dsc$_a_pointer], bi_jnl_name );
: 777      0771 5          END;
: 778      0772 4      END;
: 779      0773 4
: 780      0774 4      !
: 781      0775 4      ! /JOURNAL=RU
: 782      0776 4      !
: 783      0777 4      status = cli$_present( %ASCID 'JOURNAL.RU', desc );
: 784      0778 4      IF .status NEQU cli$_absent
: 785      0779 4      THEN
: 786      0780 5          BEGIN
: 787      0781 5              setfile$jflags[jrnl_specified_ru] = 1;
: 788      0782 5              IF .status
: 789      0783 5              THEN
: 790      0784 5                  setfile$jflags[jrnl_ru] = 1
: 791      0785 5              ELSE if .status EQLU cli$_negated
: 792      0786 5              THEN
: 793      0787 5                  setfile$jflags[jrnl_ru] = 0;
: 794      0788 4          END;
: 795      0789 4
: 796      0790 4      !
: 797      0791 4      ! /JOURNAL=NEVER_RU
: 798      0792 4      !
: 799      0793 4      status = cli$_present( %ASCID 'JOURNAL.NEVER_RU', desc );
: 800      0794 4      IF .status NEQU cli$_absent
: 801      0795 4      THEN
: 802      0796 5          BEGIN
: 803      0797 5              setfile$jflags[jrnl_specified_never_ru] = 1;
: 804      0798 5              IF .status
: 805      0799 5              THEN
: 806      0800 5                  setfile$jflags[jrnl_never_ru] = 1
: 807      0801 5              ELSE if .status EQLU cli$_negated
: 808      0802 5              THEN
: 809      0803 5                  setfile$jflags[jrnl_never_ru] = 0;
: 810      0804 4          END;
: 811      0805 4
: 812      0806 4      !
: 813      0807 4      ! /JOURNAL=ONLY_RU
: 814      0808 4      !
: 815      0809 4      status = cli$_present( %ASCID 'JOURNAL.ONLY_RU', desc );
: 816      0810 4      IF .status NEQU cli$_absent

```

```

817 0811 4 THEN
818 0812 5 BEGIN
819 0813 5 setfile$flags[jrnl_specified_only_ru] = 1;
820 0814 5 IF .status
821 0815 5 THEN
822 0816 5 setfile$flags[jrnl_only_ru] = 1
823 0817 5 ELSE if .status EQLU cli$_negated
824 0818 5 THEN
825 0819 5 setfile$flags[jrnl_nly_ru] = 0;
826 0820 4 END;
827 0821 4
828 0822 4 END;
829 0823 4 end; !**JNL**
830 0824 4
831 0825 4
832 0826 4 /LOG
833 0827 4
834 0828 4 setfile$flags[qual_log] = cli$present(%ASCID 'LOG');
835 0829 4
836 0830 4
837 0831 4 /NODIRECTORY
838 0832 4
839 0833 4 IF cli$present(%ASCID 'NODIRECTORY')
840 0834 4 THEN setfile$flags[qual_nodi] = 1;
841 0835 4
842 0836 4
843 0837 4 /OWNER_UIC
844 0838 4
845 0839 4 IF cli$present(%ASCID 'OWNER_UIC')
846 0840 4 THEN
847 0841 4 BEGIN
848 0842 4 setfile$flags[qual_owner] = 1;
849 0843 4 IF NOT cli$get_value(%ASCID 'OWNER_UIC', desc)
850 0844 4 THEN
851 0845 4 BEGIN
852 0846 4 LOCAL
853 0847 4 iosb : VECTOR[4,WORD];
854 0848 4 status = $GETJPIW(IFMLST = UPLIT(WORD(4,jpi$_uic),
855 0849 4 uic_value,
856 0850 4 0),
857 0851 4 0);
858 0852 4 IOSB = iosb);
859 0853 4 IF .status
860 0854 4 THEN status = .iosb[0];
861 0855 4 IF NOT .status
862 0856 4 THEN
863 0857 4 BEGIN
864 0858 4 SIGNAL(.status);
865 0859 4 RETURN false;
866 0860 4 END;
867 0861 4 END
868 0862 3 ELSE
869 0863 4 BEGIN
870 0864 4 IF CH$EQL(.desc[dsc$_length], .desc[dsc$_a_pointer],
871 0865 4 .desc[dsc$_length], UPLIT(BYTE('PARENT'))))
872 0866 4 THEN setfile$flags[qual_parent] = 1
873 0867 5 ELSE IF NOT (status = parse_uic(desc, uic_value))

```

P
P
P
P

```

874      0868      THEN
875      0869      BEGIN
876      0870      SIGNAL(.status);
877      0871      RETURN false;
878      0872      END;
879      0873      END;
880      0874      END;
881      0875      /PROTECTION
882      0876      IF cli$present(%ASCID 'PROTECTION')
883      0877      THEN
884      0878      BEGIN
885      0879      LOCAL
886      0880      prot_desc : $BBLOCK[dsc%c_s_bln]; ! Protection descriptor
887      0881      setfile$flags[qual_protection] = 1;
888      0882
889      0883      Parse the /PROTECTION= value
890      0884      $init_dyndesc(prot_desc);          ! Make a dynamic descriptor
891      0885
892      0886      IF cli$present(%ASCID 'PROTECTION.SYSTEM')
893      0887      THEN
894      0888      BEGIN
895      0889      setpro_mask = .setpro_mask OR %X'000F';
896      0890      IF cli$get_value(%ASCID 'PROTECTION.SYSTEM', prot_desc)
897      0891      THEN setpro_prot = parse_class(prot_desc);
898      0892      END;
899      0893      IF cli$present(%ASCID 'PROTECTION.OWNER')
900      0894      THEN
901      0895      BEGIN
902      0896      setpro_mask = .setpro_mask OR %X'00F0';
903      0897      IF cli$get_value(%ASCID 'PROTECTION.OWNER', prot_desc)
904      0898      THEN setpro_prot = .setpro_prot OR parse_class(prot_desc)^4;
905      0899      END;
906      0900      IF cli$present(%ASCID 'PROTECTION.GROUP')
907      0901      THEN
908      0902      BEGIN
909      0903      setpro_mask = .setpro_mask OR %X'0F00';
910      0904      IF cli$get_value(%ASCID 'PROTECTION.GROUP', prot_desc)
911      0905      THEN setpro_prot = .setpro_prot OR parse_class(prot_desc)^8;
912      0906      END;
913      0907      IF cli$present(%ASCID 'PROTECTION.WORLD')
914      0908      THEN
915      0909      BEGIN
916      0910      setpro_mask = .setpro_mask OR %X'F000';
917      0911      IF cli$get_value(%ASCID 'PROTECTION.WORLD', prot_desc)
918      0912      THEN setpro_prot = .setpro_prot OR parse_class(prot_desc)^12;
919      0913      END;
920      0914
921      0915      Complement the protection value since at this point, a bit set true
922      0916      indicates that we want to ALLOW access, while the system convention
923      0917      is that a bit set true indicates that we want to DENY access.
924      0918
925      0919
926      0920
927      0921
928      0922
929      0923
930      0924

```

```

931 0925 3 IF .setpro_mask NEQ 0 ! If any protections specified
932 0926 3 THEN setpro_prot = NOT .setpro_prot; ! then get the complement
933 0927 3
934 0928 3
935 0929 3 ! Now save the command level protection in the protection
936 0930 3 ! area. If the user did not supply a command level protection then
937 0931 3 ! the global_mask will have a value of zero.
938 0932 3
939 0933 3 global_mask = .setpro_mask;
940 0934 3 global_prot = .setpro_prot;
941 0935 3 END;
942 0936 3
943 0937 3 /REMOVE
944 0938 3
945 0939 3 IF cli$present(%ASCID 'REMOVE')
946 0940 3 THEN setfile$flags[qual_remove] = 1;
947 0941 3
948 0942 3
949 0943 3 /TRUNCATE
950 0944 3
951 0945 3 IF cli$present(%ASCID 'TRUNCATE')
952 0946 3 THEN setfile$flags[qual_trunc] = 1;
953 0947 3
954 0948 3
955 0949 3 /UNLOCK
956 0950 3
957 0951 3 IF cli$present(%ASCID 'UNLOCK')
958 0952 3 THEN setfile$flags[qual_unlock] = 1;
959 0953 3
960 0954 3
961 0955 3 /VERSION_LIMIT
962 0956 3
963 0957 3 IF cli$present(%ASCID 'VERSION_LIMIT')
964 0958 3 THEN
965 0959 3 BEGIN
966 0960 3 setfile$flags[qual_vrsn] = 1; ! Show that /VERSION specified
967 0961 3 vrsn_value = 32767; ! Set to the default
968 0962 3 IF cli$get_value(%ASCID 'VERSION_LIMIT', desc)
969 0963 3 THEN
970 0964 4 BEGIN
971 0965 4 IF NOT lib$cvt_dtb(.desc[dsc$w_length],
972 0966 4 .desc[dsc$a_pointer],
973 0967 4 vrsn_value)
974 0968 4 THEN
975 0969 5 BEGIN
976 0970 5 SIGNAL(set$_syntax, 1, desc);
977 0971 5 RETURN false;
978 0972 4 END;
979 0973 4
980 0974 4 IF .vrsn_value EQL 0
981 0975 4 THEN
982 0976 4 vrsn_value = 32767;
983 0977 4
984 0978 4 IF .vrsn_value LSS 0
985 0979 4 OR .vrsn_value GTR 32767
986 0980 4 THEN
987 0981 4 (SIGNAL(set$_valerr); RETURN false);

```

```

: 988      0982  3      END:
: 989      0983  2      END:
: 990      0984  2
: 991      0985  2 RETURN true;
: 992      0986  1 END:

```

```

.PSECT $SPLITS,NOWRT,NOEXE,2

      00 00 50 55 4B 43 41 42 0000C P.AAD: .ASCII \BACKUP\<0><0>
      010E0006 00014 P.AAC: .LONG 17694726
      00000000 00018 P.AAC: .ADDRESS P.AAD
      00 4D 52 49 46 4E 4F 43 0001C P.AAF: .ASCII \CONFIRM\<0>
      010E0007 00024 P.AAE: .LONG 17694727
      00000000 00028 P.AAF: .ADDRESS P.AAF
00 00 4B 43 45 48 43 5F 41 54 41 44 0002C P.AAH: .ASCII \DATA_CHECK\<0><0>
      010E000A 00038 P.AAG: .LONG 17694730
      00000000 0003C P.AAH: .ADDRESS P.AAH
00 00 4B 43 45 48 43 5F 41 54 41 44 00040 P.AAJ: .ASCII \DATA_CHECK\<0><0>
      010E000A 0004C P.AAI: .LONG 17694730
      00000000 00050 P.AAJ: .ADDRESS P.AAJ
      45 54 49 52 57 00054 P.AAK: .ASCII \WRITE\
      00059 P.AAK: .BLKB 3
      44 41 45 52 0005C P.AAL: .ASCII \READ\
00 00 4B 43 45 48 43 5F 41 54 41 44 00060 P.AAN: .ASCII \DATA_CHECK\<0><0>
      010E000A 0006C P.AAM: .LONG 17694730
      00000000 00070 P.AAN: .ADDRESS P.AAN
      00 00 00 52 45 54 4E 45 00074 P.AAP: .ASCII \ENTER\<0><0><0>
      010E0005 0007C P.AAO: .LONG 17694725
      00000000 00080 P.AAP: .ADDRESS P.AAP
00 45 4C 49 46 5F 46 4F 5F 44 4E 45 00084 P.AAR: .ASCII \END OF FILE\<0>
      010E000B 00090 P.AAQ: .LONG 17694731
      00000000 00094 P.AAR: .ADDRESS P.AAR
45 54 45 4C 45 44 5F 4E 4F 5F 45 53 41 52 45 00098 P.AAT: .ASCII \ERASE_ON_DELETE\<0>
      00 000A7 P.AAT: .ADDRESS P.AAT
      010E000F 000AB P.AAS: .LONG 17694735
      00000000 000AC P.AAT: .ADDRESS P.AAT
45 54 41 44 5F 4E 4F 49 54 41 52 49 50 58 45 000B0 P.AAV: .ASCII \EXPIRATION_DATE\<0>
      00 000BF P.AAV: .ADDRESS P.AAV
      010E000F 000C0 P.AAU: .LONG 17694735
      00000000 000C4 P.AAV: .ADDRESS P.AAV
45 54 41 44 5F 4E 4F 49 54 41 52 49 50 58 45 000C8 P.AAX: .ASCII \EXPIRATION_DATE\<0>
      00 000D7 P.AAX: .ADDRESS P.AAX
      010E000F 000DB P.AAW: .LONG 17694735
      00000000 000DC P.AAX: .ADDRESS P.AAX
      00 00 00 4E 4F 49 53 4E 45 54 58 45 000E0 P.AAZ: .ASCII \EXTENSION\<0><0><0>
      010E0009 000EC P.AAY: .LONG 17694729
      00000000 000F0 P.AAZ: .ADDRESS P.AAZ
      00 00 00 4E 4F 49 53 4E 45 54 58 45 000F4 P.ABB: .ASCII \EXTENSION\<0><0><0>
      010E0009 00100 P.ABA: .LONG 17694729
      00000000 00104 P.ABB: .ADDRESS P.ABB
00 53 52 45 46 46 55 42 5F 4C 41 42 4F 4C 47 00108 P.ABD: .ASCII \GLOBAL_BUFFERS\<0><0>
      00 00117 P.ABD: .ADDRESS P.ABD
      010E000E 00118 P.ABC: .LONG 17694734
      00000000 0011C P.ABD: .ADDRESS P.ABD
00 53 52 45 46 46 55 42 5F 4C 41 42 4F 4C 47 00120 P.ABF: .ASCII \GLOBAL_BUFFERS\<0><0>

```



```

010E0011 0028C P.ACM: .LONG 17694737
00000000' 00290 .ADDRESS P.ACM
54 53 59 53 2E 4E 4F 49 54 43 45 54 4F 52 50 00294 P.ACP: .ASCII \PROTECTION.SYSTEM\<0><0><0>
00 00 00 4D 45 002A3
010E0011 002A8 P.ACO: .LONG 17694737
00000000' 002AC .ADDRESS P.ACP
45 4E 57 4F 2E 4E 4F 49 54 43 45 54 4F 52 50 002B0 P.ACR: .ASCII \PROTECTION.OWNER\
52 002BF
010E0010 002C0 P.ACQ: .LONG 17694736
00000000' 002C4 .ADDRESS P.ACR
45 4E 57 4F 2E 4E 4F 49 54 43 45 54 4F 52 50 002C8 P.ACT: .ASCII \PROTECTION.OWNER\
52 002D7
010E0010 002D8 P.ACS: .LONG 17594736
00000000' 002DC .ADDRESS P.ACT
55 4F 52 47 2E 4E 4F 49 54 43 45 54 4F 52 50 002E0 P.ACV: .ASCII \PROTECTION.GROUP\
50 002EF
010E0010 002F0 P.ACU: .LONG 17694736
00000000' 002F4 .ADDRESS P.ACV
55 4F 52 47 2E 4E 4F 49 54 43 45 54 4F 52 50 002F8 P.ACX: .ASCII \PROTECTION.GROUP\
50 00307
010E0010 00308 P.ACW: .LONG 17694736
00000000' 0030C .ADDRESS P.ACX
4C 52 4F 57 2E 4E 4F 49 54 43 45 54 4F 52 50 00310 P.ACZ: .ASCII \PROTECTION.WORLD\
44 0031F
010E0010 00320 P.ACY: .LONG 17694736
00000000' 00324 .ADDRESS P.ACZ
4C 52 4F 57 2E 4E 4F 49 54 43 45 54 4F 52 50 00328 P.ADB: .ASCII \PROTECTION.WORLD\
44 00337
010E0010 00338 P.ADA: .LONG 17694736
00000000' 0033C .ADDRESS P.ADB
00 00 45 56 4F 4D 45 52 00340 P.ADD: .ASCII \REMOVE\<0><0>
010E0006 00348 P.ADC: .LONG 17694726
00000000' 0034C .ADDRESS P.ADD
45 54 41 43 4E 55 52 54 00350 P.ADF: .ASCII \TRUNCATE\
010E0008 00358 P.ADE: .LONG 17694728
00000000' 0035C .ADDRESS P.ADF
00 00 48 43 4F 4C 4E 55 00360 P.ADH: .ASCII \UNLOCK\<0><0>
010E0006 00368 P.ADG: .LONG 17694726
00000000' 0036C .ADDRESS P.ADH
00 00 54 49 4D 49 4C 5F 4E 4F 49 53 52 45 56 00370 P.ADJ: .ASCII \VERSION_LIMIT\<0><0><0>
00 0037F
010E000D 00380 P.ADI: .LONG 17694733
00000000' 00384 .ADDRESS P.ADJ
00 0C 54 49 4D 49 4C 5F 4E 4F 49 53 52 45 56 00388 P.ADL: .ASCII \VERSION_LIMIT\<0><0><0>
00 00397
010E000D 00398 P.ADK: .LONG 17694733
00000000' 0039C .ADDRESS P.ADL

```

.PSECT \$GLOBAL\$,NOEXE,2

00454 SET\$GL_JOURNALING: :

.BLKB 4

.EXTRN SYSSGETJPIW

.PSECT \$CODE\$,NOWRT,2

				OFFC	00000	GET_QUALS:		
						.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11	0526
						MOV L	#CLIS NEGATED, R11	
						MOV AB	CLISGET VALUE, R10	
						MOV AB	CLISPRESENT, R9	
						MOV AB	P.AAC, R8	
						MOV AB	SETFILE\$FLAGS, R7	
						SUB L2	#16, SP	
08						MOV L	#34471936, DESC	0538
						CLRL	DESC+4	
						PUSH L	R8	0543
						CALLS	#1, CLISPRESENT	
						MOV L	R0, STATUS	
						BLBC	STATUS, 1\$	0544
						BISB2	#2, SETFILE\$FLAGS	0545
						BRB	2\$	
						CMP L	STATUS, R11	0546
						BNEQ	2\$	
						BISB2	#4, SETFILE\$FLAGS	0547
						PUSH AB	P.AAE	0552
						CALLS	#1, CLISPRESENT	
						BLBC	R0, 3\$	
						BISB2	#8, SETFILE\$FLAGS	0553
						PUSH AB	P.AAG	0558
						CALLS	#1, CLISPRESENT	
						BLBC	R0, 9\$	
						BISB2	#16, SETFILE\$FLAGS	0561
						PUSH AB	DESC	0562
						PUSH AB	P.AAI	
						CALLS	#2, CLISGET_VALUE	
						BLBS	R0, 4\$	
						BISB2	#4, SETFILE\$DFLAGS	0563
						BRB	9\$	
						CLRL	I	0564
40	A8					CMPC3	DESC, @DESC+4, P.AAK	0566
						BNEQ	6\$	
						BISB2	#4, SETFILE\$DFLAGS	0568
						BRB	8\$	
48	A8					CMPC3	DESC, @DESC+4, P.AAL	0569
						BEQL	7\$	
						BRW	56\$	
						BISB2	#2, SETFILE\$DFLAGS	0571
						PUSH AB	DESC	0577
						PUSH AB	P.AAM	
						CALLS	#2, CLISGET_VALUE	
						BLBC	R0, 9\$	
						AOBLEQ	#1, I, 5\$	
						PUSH AB	DESC	0585
						PUSH AB	P.AAO	
						CALLS	#2, CLISGET_VALUE	
						BLBC	R0, 10\$	
						BISB2	#16, SETFILE\$FLAGS+2	0588
						MOV C3	DESC, @DESC+4, RENAME_BUF	0589
						MOV ZWL	DESC, FILE NAME	0592
						MOV L	DESC+4, FILE NAME+4	0593
						MOV L	#34471936, DESC	0594
						CLRL	DESC+4	

		7C	A8	9F	000D4	10\$:	PUSHAB	P.AAQ		0600
69			01	FB	000D7		CALLS	#1, CLISPRESNT		
03			50	E9	000DA		BLBC	RO, 11\$		
67			20	88	000DD		BISB2	#32, SETFILES\$FLAGS		0601
		0094	C8	9F	000E0	11\$:	PUSHAB	P.AAS		0606
69			01	FB	000E4		CALLS	#1, CLISPRESNT		
56			50	DO	000E7		MOVL	RO, STATUS		
06			56	E9	000EA		BLBC	STATUS, 12\$		0607
67		40	8F	88	000ED		BISB2	#64, SETFILES\$FLAGS		0608
			09	11	000F1		BRB	13\$		
58			56	D1	000F3	12\$:	CMPL	STATUS, R11		0609
			04	12	000F6		BNEQ	13\$		
67		80	8F	88	000F8		BISB2	#128, SETFILES\$FLAGS		0610
		00AC	C8	9F	000FC	13\$:	PUSHAB	P.AAU		0615
69			01	FB	00100		CALLS	#1, CLISPRESNT		
21			50	E9	00103		BLBC	RO, 14\$		
		08	AE	9F	00106		PUSHAB	DESC		0617
		00C4	C8	9F	00109		PUSHAB	P.AAW		
6A			02	FB	0010D		CALLS	#2, CLISGET_VALUE		
14			50	E9	00110		BLBC	RO, 14\$		
01		A7	01	88	00113		BISB2	#1, SETFILES\$FLAGS+1		0620
		18	A7	9F	00117		PUSHAB	EXP VALUE		0621
		0C	AE	9F	0011A		PUSHAB	DESC		
0000000G		00	02	FB	0011D		CALLS	#2, LIB\$CVT_TIME		
6E			50	E9	00124		BLBC	RO, 16\$		
		00D8	C8	9F	00127	14\$:	PUSHAB	P.AAY		0632
69			01	FB	0012B		CALLS	#1, CLISPRESNT		
38			50	E9	0012E		BLBC	RO, 15\$		
01		A7	02	88	00131		BISB2	#2, SETFILES\$FLAGS+1		0635
20		A7	05	DO	00135		MOVL	#5, EXTE_VALUE		0636
		08	AE	9F	00139		PUSHAB	DESC		0637
		00EC	C8	9F	0013C		PUSHAB	P.ABA		
6A			02	FB	00140		CALLS	#2, CLISGET_VALUE		
23			50	E9	00143		BLBC	RO, 15\$		
		20	A7	9F	00146		PUSHAB	EXTE_VALUE		0640
		10	AE	DD	00149		PUSHL	DESC, 74		0641
0000000G		7E	10	AE	3C	0014C	MOVZWL	DESC, -(SP)		0640
00			03	FB	00150		CALLS	#3, LIB\$CVT_DTB		
38			50	E9	00157		BLBC	RO, 16\$		
50		20	A7	DO	0015A		MOVL	EXTE_VALUE, RO		0648
		0000FFFF	4A	19	0015E		BLSS	18\$		
8F			50	D1	00160		CMPL	RO, #65535		0649
			41	14	00167		BGTR	18\$		
		0104	C8	9F	00169	15\$:	PUSHAB	P.ABC		0661
69			01	FB	0016D		CALLS	#1, CLISPRESNT		
52			50	E9	00170		BLBC	RO, 19\$		
		08	AE	9F	00173		PUSHAB	DESC		0663
		011C	C8	9F	00176		PUSHAB	P.ABE		
6A			02	FB	0017A		CALLS	#2, CLISGET_VALUE		
45			50	E9	0017D		BLBC	RO, 19\$		
01		A7	04	88	00180		BISB2	#4, SETFILES\$FLAGS+1		0666
		24	A7	9F	00184		PUSHAB	GBUF_VALUE		0667
		10	AE	DD	00187		PUSHL	DESC, 74		0668
		7E	10	AE	3C	0018A	MOVZWL	DESC, -(SP)		0667
0000000G		00	03	FB	0018E		CALLS	#3, LIB\$CVT_DTB		
03			50	E8	00195	16\$:	BLBS	RO, 17\$		
		03A8	31	00198			BRW	56\$		

0000FFFF	8F	24	A7	D1	0019B	17\$:	CMPL	GBUF_VALUE, #65535	0675
			05	14	001A3		BGTR	18\$	0676
		24	A7	D5	001A5		TSTL	GBUF_VALUE	0679
			1B	18	001A8		BGEQ	19\$	
		007711EA	8F	DD	001AA	18\$:	PUSHL	#7803370	
		0C	AE	9F	001B0		PUSHAB	DESC	
			01	DD	001B3		PUSHL	#1	
00000000G	00	007710FA	8F	DD	001B5		PUSHL	#7803130	
			04	FB	001BB		CALLS	#4, LIB\$SIGNAL	
		03BF	31	001C2		BRW	62\$	0680	
	03	0454	C7	E8	001C5	19\$:	BLBS	SET\$GL_JOURNALING, 21\$	0689
		012C	01C0	31	001CA	20\$:	BRW	39\$	
			C8	9F	001CD	21\$:	PUSHAB	P.ABG	0691
	69		01	FB	001D1		CALLS	#1, CLISPRESNT	
	F3		50	E9	001D4		BLBC	R0, 20\$	
01	A7		08	88	001D7		BISB2	#8, SETFILES\$FLAGS+1	0694
		08	AE	9F	001DB		PUSHAB	DESC	0699
		0140	C8	9F	001DE		PUSHAB	P.ABI	
	69		02	FB	001E2		CALLS	#2, CLISPRESNT	
	56		50	D0	001E5		MOVL	R0, STATUS	
00000000G	8F		56	D1	001E8		CMPL	STATUS, #CLIS_ABSENT	0700
			4D	13	001EF		BEQL	25\$	
	08	A7	04	88	001F1		BISB2	#4, SETFILES\$JFLAGS	0703
		06	56	E9	001F5		BLBC	STATUS, 22\$	0704
	08	A7	02	88	001F8		BISB2	#2, SETFILES\$JFLAGS	0706
			09	11	001FC		BRB	23\$	
	5B		56	D1	001FE	22\$:	CMPL	STATUS, R11	0707
			04	12	00201		BNEQ	23\$	
	08	A7	02	8A	00203		BICB2	#2, SETFILES\$JFLAGS	0709
		08	AE	9F	00207	23\$:	PUSHAB	DESC	0710
		0154	C8	9F	0020A		PUSHAB	P.ABK	
	6A		02	FB	0020E		CALLS	#2, CLISGET_VALUE	
	2A		50	E9	00211		BLBC	R0, 25\$	
	10	08	AE	B1	00214		CMPL	DESC, #16	0713
			12	1B	00218		BLEQU	24\$	
		08	AE	9F	0021A		PUSHAB	DESC	0715
			01	DD	0021D		PUSHL	#1	
		00771112	8F	DD	0021F		PUSHL	#7803154	
00000000G	00		03	FB	00225		CALLS	#3, LIB\$SIGNAL	
	09		20	88	0022C	24\$:	BISB2	#32, SETFILES\$JFLAGS+1	0716
	0170	08	AE	B0	00230		MOVW	DESC, AI_JNL_DESC	0717
0140	C7	0C	BE	08	AE	28	MOVW	DESC, @DESC+4, AI_JNL_NAME	0718
			08	AE	9F	0023E	PUSHAB	DESC	0725
		0168	C8	9F	00241	25\$:	PUSHAB	P.ABM	
	69		02	FB	00245		CALLS	#2, CLISPRESNT	
	56		50	D0	00248		MOVL	R0, STATUS	
00000000G	8F		56	D1	0024B		CMPL	STATUS, #CLIS_ABSENT	0726
			4E	13	00252		BEQL	29\$	
	08	A7	10	88	00254		BISB2	#16, SETFILES\$JFLAGS	0729
		06	56	E9	00258		BLBC	STATUS, 26\$	0730
	08	A7	08	88	0025B		BISB2	#8, SETFILES\$JFLAGS	0732
			09	11	0025F		BRB	27\$	
	5B		56	D1	00261	26\$:	CMPL	STATUS, R11	0733
			04	12	00264		BNEQ	27\$	
	08	A7	08	8A	00266		BICB2	#8, SETFILES\$JFLAGS	0735
		08	AE	9F	0026A	27\$:	PUSHAB	DESC	0736
		017C	C8	9F	0026D		PUSHAB	P.ABO	

			06		56	E9	0034F		BLBC	STATUS, 36\$	0798	
			A7		08	88	00352		BISB2	#8, SETFILESJFLAGS+1	0800	
					09	11	00356		BRB	37\$		
			5B		56	D1	00358	36\$:	CMPL	STATUS, R11	0801	
					04	12	0035B		BNEQ	37\$		
			A7		08	8A	0035D		BICB2	#8, SETFILESJFLAGS+1	0803	
				08	AE	9F	00361	37\$:	PUSHAB	DESC	0809	
				01E8	C8	9F	00364		PUSHAB	P.ABY		
			69		02	FB	00368		CALLS	#2, CLISPRESNT		
			56		50	D0	0036B		MOVL	R0, STATUS		
		00000000G	8F		56	D1	0036E		CMPL	STATUS, #CLIS_ABSENT	0810	
					16	13	00375		BEQL	39\$		
			A7		04	88	00377		BISB2	#4, SETFILESJFLAGS+1	0813	
			06		56	E9	0037B		BLBC	STATUS, 38\$	0814	
			A7		02	88	0037E		BISB2	#2, SETFILESJFLAGS+1	0816	
					09	11	00382		BRB	39\$		
			5B		56	D1	00384	38\$:	CMPL	STATUS, R11	0817	
					04	12	00387		BNEQ	39\$		
			A7		02	8A	00389		BICB2	#2, SETFILESJFLAGS+1	0819	
				01F4	C8	9F	0038D	39\$:	PUSHAB	P.ACA	0828	
			69		01	FB	00391		CALLS	#1, CLISPRESNT		
01	A7		04		50	F0	00394		INSV	R0, #4, #1, SETFILES\$FLAGS+1		
				0208	C8	9F	0039A		PUSHAB	P.ACC	0833	
			69		01	FB	0039E		CALLS	#1, CLISPRESNT		
			04		50	E9	003A1		BLBC	R0, 40\$		
			A7		20	88	003A4		BISB2	#32, SETFILES\$FLAGS+1	0834	
				021C	C8	9F	003A8	40\$:	PUSHAB	P.ACE	0839	
			69		01	FB	003AC		CALLS	#1, CLISPRESNT		
			5A		50	E9	003AF		BLBC	R0, 45\$		
			A7		40	8F	003B2		BISB2	#64, SETFILES\$FLAGS+1	0842	
					08	AE	003B7		PUSHAB	DESC	0843	
				0230	C8	9F	003BA		PUSHAB	P.ACG		
			6A		02	FB	003BE		CALLS	#2, CLISGET_VALUE		
			1F		50	E8	003C1		BLBS	R0, 41\$		
					7E	7C	003C4		CLRQ	-(SP)	0852	
				08	AE	9F	003C6		PUSHAB	IOSB		
				0238	C8	9F	003C9		PUSHAB	P.ACI		
					7E	7C	003CD		CLRQ	-(SP)		
					7E	D4	003CF		CLRL	-(SP)		
		00000000G	00		07	FB	003D1		CALLS	#7, SYSSGETJPIW		
			56		50	D0	003D8		MOVL	R0, STATUS		
			29		56	E9	003DB		BLBC	STATUS, 44\$	0853	
			56		6E	3C	003DE		MOVZWL	IOSB, STATUS	0854	
					21	11	003E1		BRB	43\$	0855	
0248	C8		OC	BE	08	AE	29	003E3	41\$:	CMPC3	DESC, @DESC+4, P.ACJ	0856
					07	12	003EB		BNEQ	42\$		
			01	A7	80	8F	88	003ED		BISB2	#128, SETFILES\$FLAGS+1	0866
					18	11	003F2		BRB	45\$		
					28	A7	9F	003F4	42\$:	PUSHAB	UIC VALUE	0867
				0C	AE	9F	003F7		PUSHAB	DESC		
		00000000G	00		02	FB	003FA		CALLS	#2, PARSE UIC		
			56		50	D0	00401		MOVL	R0, STATUS		
			05		56	E8	00404	43\$:	BLBS	STATUS, 45\$		
					56	DD	00407	44\$:	PUSHL	STATUS	0870	
					016B	31	00409		BRW	60\$		
				025C	C8	9F	0040C	45\$:	PUSHAB	P.ACK	0878	
			69		01	FB	00410		CALLS	#1, CLISPRESNT		

	03		50	E8	00413		BLBS	R0, 46\$		
			00CB	31	00416		BRW	52\$		
02	A7		01	88	00419	46\$:	BISB2	#1, SETFILES\$FLAGS+2	0884	
	6E	020E0000	8F	DD	0041D		MOVL	#34471936, PROT_DESC	0889	
		04	AE	D4	00424		CLRL	PROT_DESC+4		
		0278	C8	9F	00427		PUSHAB	P.ACM	0891	
	69		01	FB	0042B		CALLS	#1, CLISPRESENT		
	1D		50	E9	0042E		BLBC	R0, 47\$		
12	A7		0F	88	00431		BISB2	#15, SETPRO_MASK	0894	
			5E	DD	00435		PUSHL	SP	0895	
		0294	C8	9F	00437		PUSHAB	P.ACO		
	6A		02	FB	0043B		CALLS	#2, CLISGET_VALUE		
	0D		50	E9	0043E		BLBC	R0, 47\$		
			5E	DD	00441		PUSHL	SP	0896	
00000000V	EF		01	FB	00443		CALLS	#1, PARSE_CLASS		
10	A7		50	B0	0044A		MOVW	R0, SETPRO_PROT		
		02AC	C8	9F	0044E	47\$:	PUSHAB	P.ACO	0898	
	69		01	FB	00452		CALLS	#1, CLISPRESENT		
	21		50	E9	00455		BLBC	R0, 48\$		
12	A7	F0	8F	88	00458		BISB2	#240, SETPRO_MASK	0901	
			5E	DD	0045D		PUSHL	SP	0902	
		02C4	C8	9F	0045F		PUSHAB	P.ACS		
	6A		02	FB	00463		CALLS	#2, CLISGET_VALUE		
	10		50	E9	00466		BLBC	R0, 48\$		
			5E	DD	00469		PUSHL	SP	0903	
00000000V	EF		01	FB	0046B		CALLS	#1, PARSE_CLASS		
	50		10	C4	00472		MULL2	#16, R0		
10	A7		50	AB	00475		BISW2	R0, SETPRO_PROT		
		02DC	C8	9F	00479	48\$:	PUSHAB	P.ACU	0905	
	69		01	FB	0047D		CALLS	#1, CLISPRESENT		
	21		50	E9	00480		BLBC	R0, 49\$		
13	A7		0F	88	00483		BISB2	#15, SETPRO_MASK+1	0908	
			5E	DD	00487		PUSHL	SP	0909	
		02F4	C8	9F	00489		PUSHAB	P.ACW		
	6A		02	FB	0048D		CALLS	#2, CLISGET_VALUE		
	11		50	E9	00490		BLBC	R0, 49\$		
			5E	DD	00493		PUSHL	SP	0910	
00000000V	EF		01	FB	00495		CALLS	#1, PARSE_CLASS		
50	50		08	78	0049C		ASHL	#8, R0, R0		
10	A7		50	AB	004A0		BISW2	R0, SETPRO_PROT		
		030C	C8	9F	004A4	49\$:	PUSHAB	P.ACY	0912	
	69		01	FB	004A8		CALLS	#1, CLISPRESENT		
	22		50	E9	004AB		BLBC	R0, 50\$		
13	A7	F0	8F	88	004AE		BISB2	#240, SETPRO_MASK+1	0915	
			5E	DD	004B3		PUSHL	SP	0916	
		0324	C8	9F	004B5		PUSHAB	P.ADA		
	6A		02	FB	004B9		CALLS	#2, CLISGET_VALUE		
	11		50	E9	004BC		BLBC	R0, 50\$		
			5E	DD	004BF		PUSHL	SP	0917	
00000000V	EF		01	FB	004C1		CALLS	#1, PARSE_CLASS		
50	50		0C	78	004C8		ASHL	#12, R0, R0		
10	A7		50	AB	004CC		BISW2	R0, SETPRO_PROT		
	50	12	A7	3C	004D0	50\$:	MOVZWL	SETPRO_MASK, R0	0925	
			05	13	004D4		BEQL	51\$		
	10	A7	10	A7	B2	004D6	MCOMW	SETPRO_PROT, SETPRO_PROT	0926	
	16	A7	50	B0	004DB	51\$:	MOVW	R0, GLOBAL_MASK	0933	
	14	A7	10	A7	B0	004DF	MOVW	SETPRO_PROT, GLOBAL_PROT	0934	

		0334	C8 9F 0'4E4	52\$:	PUSHAB P.ADC		0939
	69		01 FB 004E8		CALLS #1, CLISPRESNT		
	04		50 E9 004EB		BLBC R0, 53\$		
02	A7		20 88 004EE		BISB2 #32, SETFILES\$FLAGS+2		0940
		0344	C8 9F 004F2	53\$:	PUSHAB P.ADE		0945
	69		01 FB 004F6		CALLS #1, CLISPRESNT		
	04		50 E9 004F9		BLBC R0, 54\$		
02	A7		02 88 004FC		BISB2 #2, SETFILES\$FLAGS+2		0946
		0354	C8 9F 00500	54\$:	PUSHAB P.ADG		0951
	69		01 FB 00504		CALLS #1, CLISPRESNT		
	04		50 E9 00507		BLBC R0, 55\$		
02	A7		04 88 0050A		BISB2 #4, SETFILES\$FLAGS+2		0952
		036C	C8 9F 0050E	55\$:	PUSHAB P.ADI		0957
	69		01 FB 00512		CALLS #1, CLISPRESNT		
	68		50 E9 00515		BLBC R0, 61\$		
02	A7		08 88 00518		BISB2 #8, SETFILES\$FLAGS+2		0960
34	A7	7FFF	8F 3C 0051C		MOVZWL #32767, VRSN_VALUE		0961
		08	AE 9F 00522		PUSHAB DESC		0962
		0384	C8 9F 00525		PUSHAB P.ADK		
	6A		02 FB 00529		CALLS #2, CLISGET_VALUE		
	51		50 E9 0052C		BLBC R0, 61\$		
		34	A7 9F 0052F		PUSHAB VRSN_VALUE		0965
		10	AE DD 00532		PUSHL DESC+4		0966
	7E	10	AE 3C 00535		MOVZWL DESC, -(SP)		0965
00000000G	00		03 FB 00539		CALLS #3, LIB\$CVT_DTB		
	14		50 EB 00540		BLBS R0, 57\$		
		08	AE 9F 00543	56\$:	PUSHAB DESC		0970
			01 DD 00546		PUSHL #1		
00000000G	00	007710FA	8F DD 00548		PUSHL #7803130		
			03 FB 0054E		CALLS #3, LIB\$SIGNAL		
		34	2D 11 00555		BRB 62\$		0971
			A7 D5 00557	57\$:	TSTL VRSN_VALUE		0974
	34		06 12 0055A		BNEQ 58\$		
	A7	7FFF	8F 3C 0055C		MOVZWL #32767, VRSN_VALUE		0976
	50	34	A7 D0 00562	58\$:	MOVL VRSN_VALUE, R0		0978
			09 19 00566		BLSS 59\$		
00007FFF	8F		50 D1 00568		CMPL R0, #32767		0979
			0F 15 0056F		BLEQ 61\$		
		007711EA	8F DD 00571	59\$:	PUSHL #7803370		0981
00000000G	00		01 FB 00577	60\$:	CALLS #1, LIB\$SIGNAL		
			04 11 0057E		BRB 62\$		
	50		01 D0 00580	61\$:	MOVL #1, R0		0985
			04 00583		RET		
			50 D4 00584	62\$:	CLRL R0		0986
			04 00586		RET		

; Routine Size: 1415 bytes, Routine Base: \$CODE\$ + 00EC

```

: 994      0987 1 ROUTINE parse_null_string (fab) : NOVALUE =
: 995      0988 1 |++
: 996      0989 1 |
: 997      0990 1 | This routine parses the null string on the specified FAB to
: 998      0991 1 | force RMS to clear all internal saved context.
: 999      0992 1 |
: 1000     0993 1 |--
: 1001     0994 2 BEGIN
: 1002     0995 2 MAP
: 1003     0996 2     fab : REF $BBLOCK;
: 1004     0997 2
: 1005     0998 2 LOCAL
: 1006     0999 2     nam : REF $BBLOCK;
: 1007     1000 2
: 1008     1001 2     nam = .fab[fab$l_nam];
: 1009     1002 2     nam[nam$sv_svctx] = 0;
: 1010     1003 2     nam[nam$sv_synchk] = 1;
: 1011     1004 2     nam[nam$b_esl] = 0;
: 1012     1005 2     nam[nam$b_ess] = 0;
: 1013     1006 2     nam[nam$b_rsl] = 0;
: 1014     1007 2     nam[nam$b_rss] = 0;
: 1015     1008 2     nam[nam$l_esa] = 0;
: 1016     1009 2     nam[nam$l_rsa] = 0;
: 1017     1010 2     nam[nam$l_rlf] = 0;
: 1018     1011 2     fab[fab$b_fns] = 0;
: 1019     1012 2     fab[fab$b_dns] = 0;
: 1020     1013 2     $sparse(fab=.fab);
: 1021     1014 2 RETURN;
: 1022     1015 1 END;

```

.EXTRN SYSSPARSE

```

0000 0000 PARSE_NULL STRING:
      51      04 AC D0 00002      .WORD      Save nothing
      50      28 A1 D0 00006      MOVL      FAB, R1
      33 A0      80 8F 8A 0000A      BICB2     #128, 51(NAM)
      08 A0      08 88 0000F      BISB2     #8, 8(NAM)
      0A A0 B4 00013      CLRW     10(NAM)
      02 A0 B4 00016      CLRW     2(NAM)
      04 A0 D4 00019      CLRL     4(NAM)
      0C A0 7C 0001C      CLRQ     12(NAM)
      34 A1 B4 0001F      CLRW     52(R1)
      51 DD 00022      PUSHL    R1
      01 FB 00024      CALLS    #1, SYSSPARSE
      04 0002B      RET

```

```

: 0987
: 1001
: 1002
: 1003
: 1005
: 1007
: 1009
: 1008
: 1011
: 1013
: 1015

```

; Routine Size: 44 bytes, Routine Base: \$CODE\$ + 0667

```

1024 1016 1 ROUTINE set_attributes (fab) =
1025 1017 1 :++
1026 1018 1 :
1027 1019 1 : This is the routine that actually accesses the file, and sets the
1028 1020 1 : specified attributes. If an error occurs while attempting to set
1029 1021 1 : the attributes, a message telling the user is issued, and any other
1030 1022 1 : files are processed.
1031 1023 1 :
1032 1024 1 :--
1033 1025 2 BEGIN
1034 1026 2
1035 1027 2 MAP
1036 1028 2     fab : REF SBBLOCK;           ! Define the fab
1037 1029 2
1038 1030 2
1039 1031 2 LOCAL
1040 1032 2     atr : BLOCKVECTOR[13,8,BYTE], ! Attribute control block
1041 1033 2     ptr,                          ! Pointer to attribute block
1042 1034 2     status,                       ! Status return
1043 1035 2     channel : WORD,              ! Channel number
1044 1036 2     desc : SBBLOCK[dsc$c s bln],   ! General descriptor
1045 1037 2     fib : SBBLOCK[fib$c length],   ! A FIB for the QIO
1046 1038 2     header : SBBLOCK[512],       ! The file header
1047 1039 2     item_list : $ITMLST DECL (ITEMS=1), ! Item list for GETDVI volume label
1048 1040 2     ai_jnl_ace : SBBLOCK[4+c]f$c_mxjnl$naml], ! ACE to contain AI journal name
1049 1041 2     at_jnl_ace : SBBLOCK[4+c]f$c_mxjnl$naml], ! ACE to contain AT journal name
1050 1042 2     bi_jnl_ace : SBBLOCK[4+c]f$c_mxjnl$naml], ! ACE to contain BI journal name
1051 1043 2     label_buffer : VECTOR[12,BYTE], ! Buffer for volume label
1052 1044 2     iosb : VECTOR[4,WORD];       ! I/O status block
1053 1045 2
1054 1046 2 BIND
1055 1047 2     recattr = header[fh2$w_recattr] : SBBLOCK[atr$s_recattr],
1056 1048 2
1057 1049 2     nam = .fab[fab$l_nam] : SBBLOCK;   ! Define the name block
1058 1050 2
1059 1051 2 OWN
1060 1052 2     rmsjnlid_ace : SBBLOCK[id_ace$s_size], ! ACE to contain RMS jnl ident
1061 1053 2     old_dir_num : WORD,                ! Old directory id
1062 1054 2     old_dir_seq : WORD,
1063 1055 2     old_dir_rvn : WORD;
1064 1056 2
1065 1057 2
1066 1058 2 :
1067 1059 2 : If no more processing is to be performed, then simply return. This handles
1068 1060 2 : the case of wildcards which do not return for each file to the routine
1069 1061 2 : that called lib$file_scan.
1070 1062 2
1071 1063 2 IF .setfile$flags[qual_quit]
1072 1064 2 THEN RETURN true;
1073 1065 2
1074 1066 2 :
1075 1067 2 : See if the common specified common qualifiers match this one.
1076 1068 2
1077 1069 2 conf_desc[dsc$a_pointer] = .nam[nam$l_rsa]; ! Get the resultant name
1078 1070 2 conf_desc[dsc$w_length] = .nam[nam$b_rsl]; ! of this file
1079 1071 2
1080 1072 2 status = lib$qual_file_match(context, ! Call the common qualifier routine

```

```

1081 1073 ~~~~~ 0,
1082 1074 ~~~~~ conf_desc,
1083 1075 ~~~~~ 0,
1084 1076 ~~~~~ 0,
1085 1077 ~~~~~ 0);
1086 1078 IF NOT .status ! If the status is false, check
1087 1079 THEN ! if it is the "correct" false
1088 1080 BEGIN ! errors that says
1089 1081 IF .status NEQ lib$filfaimat ! "file didn't match qualifiers"
1090 1082 THEN SIGNAL(set$openin, ! Else signal it
1091 1083 1,
1092 1084 conf_desc,
1093 1085 .status);
1094 1086 RETURN true; ! and DON'T process this file
1095 1087 END;
1096 1088
1097 1089
1098 1090
1099 1091 ~~~~~ ! Assign a channel to the file's device
1100 1092
1101 1093 desc[dsc$w_length] = .nam[nam$b_dev]; ! Set up the descriptor
1102 1094 desc[dsc$a_pointer] = .nam[nam$_dev]; ! to point to the device name
1103 P 1095 IF NOT (status = $ASSIGN(
1104 P 1096 DEVNAM = desc
1105 1097 CHAN = channe())
1106 1098 THEN
1107 1099 BEGIN
1108 1100 file_error( set$openin,
1109 1101 .status, .fab); ! Tell user why the assign failed
1110 1102 RETURN true; ! And continue with other files
1111 1103 END;
1112 1104
1113 1105 ~~~~~ ! Access the file, reading the file's header
1114 1106
1115 1107
1116 1108 desc[dsc$w_length] = fib$c_length; ! Re-use descriptor to point to FIB
1117 1109 desc[dsc$a_pointer] = fib;
1118 1110
1119 1111 CHSFILL(0, fib$c_length, fib); ! Zero out the FIB
1120 1112
1121 1113 fib[fib$l_acctl] = fib$m_write OR ! Set up the FIB
1122 1114 fib$m_noread OR
1123 1115 fib$m_nowrite;
1124 1116
1125 1117 fib[fib$w_fid_num] = .nam[nam$w_fid_num]; ! Put in the file id
1126 1118 fib[fib$w_fid_seq] = .nam[nam$w_fid_seq];
1127 1119 fib[fib$w_fid_rvn] = .nam[nam$w_fid_rvn];
1128 1120
1129 1121
1130 1122
1131 1123 ~~~~~ ! Unless some option was specified that requires the file header, don't
1132 1124 bother to get it.
1133 1125
1134 1126 IF (.setfile$flags[qual_backup] OR
1135 1127 .setfile$flags[qual_nobackup] OR
1136 1128 .setfile$flags[qual_data] OR
1137 1129 .setfile$flags[qual_eof] OR

```

```

1138      .setfile$flags[qual_erase] OR
1139      .setfile$flags[qual_noerase] OR
1140      .setfile$flags[qual_expi] OR
1141      .setfile$flags[qual_exte] OR
1142      .setfile$flags[qual_gbuf] OR
1143      .setfile$flags[qual_journal] OR
1144      .setfile$flags[qual_nodi] OR
1145      .setfile$flags[qual_owner] OR
1146      .setfile$flags[qual_trunc] OR
1147      .setfile$flags[qual_vrsn])
1148
1149      AND
1150      BEGIN
1151      IF .setfile$flags[qual_quit_mod]
1152      OR NOT .setfile$flags[qual_confirm]
1153      THEN true
1154      ELSE
1155      BEGIN
1156      status = lib$confirm_act(%ASCID 'Modify file !AS? [N] : ',
1157      %REF(conf_desc));
1158      IF NOT .status
1159      THEN
1160      BEGIN
1161      IF .status EQL lib$ quipro
1162      THEN (setfile$flags[qual_quit] = 1; RETURN true)
1163      ELSE IF .status EQL lib$ quiconact
1164      THEN (setfile$flags[qual_quit_mod] = 1; status = 1)
1165      ELSE IF .status NEQ lib$ negans
1166      THEN SIGNAL(set$_writeerr, 1, conf_desc, .status);
1167      END;
1168      .status
1169      END
1170      THEN
1171      BEGIN
1172
1173      atr[0,atr$w_type] = atr$c_header;          ! Get the file header
1174      atr[0,atr$w_size] = atr$s_header;
1175      atr[0,atr$l_addr] = header;
1176      atr[1,atr$w_type] = atr$c_fndacety;      ! Look for an rmsjnlid ACE
1177      atr[1,atr$w_size] = id_ace$s_size;
1178      atr[1,atr$l_addr] = rmsjnlid_ace;
1179      atr[2,0,0,32,0] = 0;
1180
1181      rmsjnlid_ace[ace$b_size] = id_ace$s_size;
1182      rmsjnlid_ace[ace$b_type] = ace$c_jnlid;
1183      rmsjnlid_ace[ace$w_flags] = ace$m_hidden OR ace$m_protected;
1184
1185      P      status = $QIOWi CHAN = .channel,
1186      P      FUNC = IO$ ACCESS OR IOSM_ACCESS,
1187      P      IOSB = iosb,
1188      P      P1 = desc,
1189      P      P5 = atr);
1190      IF .status THEN status = .iosb[0];
1191      IF NOT .status
1192      THEN file_error(set$_readerr,.status,.fab)
1193      ELSE
1194      BEGIN

```



```

1252      1244 5      THEN SIGNAL(set$_notods2,          ! tell the user
1253      1245 5              1,
1254      1246 5              $DESCRIPTOR('/NOERASE'))
1255      1247 5      ELSE
1256      1248 6          BEGIN
1257      1249 6              header[fh2$_v_erase] = 0;
1258      1250 6              status = 1;
1259      1251 5          END;
1260      1252 4      END;
1261      1253 4
1262      1254 4      IF .setfile$flags[qual_data]          ! /DATA_CHECK
1263      1255 4      THEN
1264      1256 5          BEGIN
1265      1257 5              IF .setfile$dflags[data_read] THEN header[fh2$_v_readcheck] = 1;
1266      1258 5              IF .setfile$dflags[data_noread] THEN header[fh2$_v_readcheck] = 0;
1267      1259 5              IF .setfile$dflags[data_write] THEN header[fh2$_v_writcheck]= 1;
1268      1260 5              IF .setfile$dflags[data_nowrite] THEN header[fh2$_v_writcheck] =0;
1269      1261 5              status = 1;
1270      1262 4          END;
1271      1263 4
1272      1264 4      IF .setfile$flags[qual_nodi]          ! /NODIRECTORY
1273      1265 4      THEN
1274      1266 5          BEGIN
1275      1267 5              IF .header[fh2$_b_structlev] EQL 1          ! If not ODS2
1276      1268 5              THEN SIGNAL (set$_notods2,          ! tell the user
1277      1269 5                  1,
1278      1270 5                  $DESCRIPTOR('/NODIRECTORY'))
1279      1271 5          ELSE
1280      1272 6              BEGIN
1281      1273 6                  header[fh2$_v_directory] = 0;
1282      1274 6                  status = 1;
1283      1275 5              END;
1284      1276 4          END;
1285      1277 4
1286      1278 4      !
1287      1279 4      ! If something in the file characteristics was changed, show it.
1288      1280 4      !
1289      1281 4      IF .status
1290      1282 4      THEN
1291      1283 5          BEGIN
1292      1284 5              atr[.ptr,atr$_w_type] = atr$_c_uchar;
1293      1285 5              atr[.ptr,atr$_w_size] = atr$_s_uchar;
1294      1286 5              atr[.ptr,atr$_l_addr] = header[fh2$_l_filechar];
1295      1287 5              ptr = .ptr + 1;
1296      1288 5              status = 0;          ! Reset the change indicator
1297      1289 4          END;
1298      1290 4
1299      1291 4      !
1300      1292 4      ! Modify the record attributes
1301      1293 4      !
1302      1294 4
1303      1295 4      IF .setfile$flags[qual_exte]          ! /EXTENSION
1304      1296 4      THEN
1305      1297 5          BEGIN
1306      1298 5              recattr[fat$_w_defext] = .exte_value;
1307      1299 5              status = 1;
1308      1300 4          END;

```

```

1309 1301 4
1310 1302 4
1311 1303 4
1312 1304 4
1313 1305 4
1314 1306 4
1315 1307 4
1316 1308 5
1317 1309 5
1318 1310 5
1319 1311 5
1320 1312 5
1321 1313 5
1322 1314 5
1323 1315 5
1324 1316 5
1325 1317 6
1326 1318 6
1327 1319 6
1328 1320 6
1329 1321 5
1330 1322 4
1331 1323 4
1332 1324 4
1333 1325 4
1334 1326 4
1335 1327 4
1336 1328 4
1337 1329 5
1338 1330 5
1339 1331 5
1340 1332 4
1341 1333 4
1342 1334 4
1343 1335 4
1344 1336 4
1345 1337 4
1346 1338 5
1347 1339 5
1348 1340 5
1349 1341 5
1350 1342 5
1351 1343 4
1352 1344 4
1353 1345 4
1354 1346 4
1355 1347 4
1356 1348 4
1357 1349 4
1358 1350 5
1359 1351 5
1360 1352 5
1361 1353 5
1362 1354 5
1363 1355 5
1364 1356 4
1365 1357 4

```

```

IF /END_OF_FILE was specified, set the eof_block equal to the
highest_block allocated, and the first free byte in that block
to 512, indicating that the entire allocated space is used.

IF .setfile$flags[qual_eof]
THEN
BEGIN
IF .nam[nam$w_fid_num] EQL 1           ! If INDEXF.SYS
AND .nam[nam$w_fid_seq] EQL 1
AND .nam[nam$b_fid_nmx] EQL 0
THEN SIGNAL (set$_writeerr,          ! Signal an error
1,                                   ! modifying it
conf_desc,                           ! because of an
ss$_acconflict)
ELSE
BEGIN
recattr[fat$_efblk] = .recattr[fat$_hiblk];
recattr[fat$_ffbyte] = 512;
status = 1;
END;
END;

If /GLOBAL_BUFFERS was specified, set the global buffer count to
the value specified.

IF .setfile$flags[qual_gbuf]
THEN
BEGIN
recattr[fat$_gbc] = .gbuf_value;
status = 1;
END;

If something in the user attributes was changed, show it.

IF .status
THEN
BEGIN
atr[.ptr,atr$_type] = atr$_recattr;
atr[.ptr,atr$_size] = atr$_recattr;
atr[.ptr,atr$_addr] = header[fh2$_recattr];
ptr = .ptr + 1;
END;

Expiration date

IF .setfile$flags[qual_expi]
THEN
BEGIN
CHSMOVE(8,exp_value,header[fi2$_expdate]);
atr[.ptr,atr$_type] = atr$_expdate;
atr[.ptr,atr$_size] = atr$_expdate;
atr[.ptr,atr$_addr] = header[fi2$_expdate];
ptr = .ptr + 1;
END;

```

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1371
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```

Owner UIC

```

IF .setfile$flags[qual_owner]
THEN
BEGIN

```

If the qualifier OWNER=PARENT was specified, then the UIC of the owner directory must be found. Rather than accessing the directory every time, a test is made to determine if the directory's UIC has already been found. If so, then the current value of UIC_VALUE is used. Otherwise, a new value is found.

```

IF .setfile$flags[qual_parent]
THEN

```

```

BEGIN
IF NOT ((.nam[nam$w_did_num] EQL .old_did_num) AND
(.nam[nam$w_did_seq] EQL .old_did_seq) AND
(.nam[nam$w_did_rvn] EQL .old_did_rvn))

```

```

THEN

```

```

BEGIN
LOCAL
temp_atr : BLOCKVECTOR[2,8,BYTE],
temp_desc : $BLOCK[dsc$c_s_bln],
temp_fib : $BLOCK[fib$c_extdata],
temp_chan;

```

```

temp_desc[dsc$w_length] = .nam[nam$b_dev];
temp_desc[dsc$a_pointer] = .nam[nam$t_dev];
IF NOT (status = $ASSIGN(DEVNAM = temp_desc,
(CHAN = temp_chan))

```

```

THEN

```

```

BEGIN
$DASSGN(CHAN = .channel);
SIGNAL(set$opendir, 1, conf_desc, .status);
RETURN true;
END;

```

```

CH$FILL(0, fib$c_extdata, temp_fib);

```

```

temp_fib[fib$l_acctl] = fib$m_noread OR fib$m_nowrite;
temp_fib[fib$w_fid_num] = .nam[nam$w_did_num];
temp_fib[fib$w_fid_seq] = .nam[nam$w_did_seq];
temp_fib[fib$w_fid_rvn] = .nam[nam$w_did_rvn];

```

```

temp_atr[0,atr$w_type] = atr$c_uic;
temp_atr[0,atr$w_size] = atr$s_uic;
temp_atr[0,atr$l_addr] = uic_value;
temp_atr[1,0,0,32,0] = 0;

```

```

temp_desc[dsc$w_length] = fib$c_extdata;
temp_desc[dsc$a_pointer] = temp_fib;

```

```

status = $OIOW( CHAN = .temp_chan,
FUNC = IOS_ACCESS,
IOSB = iosb,
PI = temp_desc,

```

P

P

P

P

P

```

1423 1415 7      p5 = temp_atr);
1424 1416 7      IF .status THEN status = .iosb[0];
1425 1417 7      IF NOT .status
1426 1418 7      THEN SIGNAL_STOP(set$_opendir, 1, conf_desc, .status);
1427 1419 7      $DASSGN (CHAN = .temp_chan);
1428 1420 6      END;
1429 1421 5      END;
1430 1422 5
1431 1423 5      header[fh2$_fileowner] = .uic_value;
1432 1424 5      atr[.ptr,atr$_type] = atr$_uic;
1433 1425 5      atr[.ptr,atr$_size] = atr$_uic;
1434 1426 5      atr[.ptr,atr$_addr] = header[fh2$_fileowner];
1435 1427 5      ptr = .ptr + 1;
1436 1428 4      END;
1437 1429 4
1438 1430 4
1439 1431 4      ! If /TRUNCATE was specified, find the block containing the EOF. If
1440 1432 4      the EOF occurred somewhere in that block, then truncate to the next
1441 1433 4      block.
1442 1434 4
1443 1435 4      IF .setfile$flags[qual_trunc] THEN
1444 1436 5      BEGIN
1445 1437 5      IF .recattr[fat$_fileorg] EQL fat$_indexed
1446 1438 5      THEN
1447 1439 5      SIGNAL(set$_writeerr, 1, conf_desc, set$_notrunc)
1448 1440 5      ELSE
1449 1441 6      BEGIN
1450 1442 6      fib[fib$_trunc] = 1;
1451 1443 6      fib[fib$_exvbn] = .recattr[fat$_efblkh]^16
1452 1444 6      + .recattr[fat$_efblk];
1453 1445 6      IF .recattr[fat$_ffbyte] GTR 0
1454 1446 6      THEN fib[fib$_exvbn] = .fib[fib$_exvbn] + 1;
1455 1447 5      END;
1456 1448 4      END;
1457 1449 4
1458 1450 4      ! Set the version limit for a particular file
1459 1451 4
1460 1452 4      IF .setfile$flags[qual_vrsn]
1461 1453 4      THEN
1462 1454 5      BEGIN
1463 1455 5      fib[fib$_did_num] = .nam[nam$_did_num];      ! Specify the directory
1464 1456 5      fib[fib$_did_seq] = .nam[nam$_did_seq];
1465 1457 5      fib[fib$_did_rvn] = .nam[nam$_did_rvn];
1466 1458 5
1467 1459 5      fib[fib$_findfid] = true;      ! Set the findfid bit
1468 1460 5
1469 1461 5      fib[fib$_verlimit] = .vrsn_value;      ! And the version limit
1470 1462 4      END;
1471 1463 4
1472 1464 4
1473 1465 4      ! If any journaling was requested, make those modifications
1474 1466 4
1475 1467 4
1476 1468 4      status = 0;      ! Flag: journaling info changed.
1477 1469 4
1478 1470 4      IF .setfile$flags[qual_journal]      ! /JOURNAL
1479 1471 4      THEN

```

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```

```

BEGIN
IF .header[fh2$b_structlev] EQL 1      ! If not ODS2
THEN SIGNAL(set$_notods2,             ! tell the user
            1
            $DESCRIPTOR('/JOURNAL'))
ELSE
BEGIN
! If any of the RU journal bits are going to be set,
! clear the existing header RU bits to avoid conflicts
IF (.setfile$jflags[jrnl_only_ru] OR .setfile$jflags[jrnl_never_ru]
    OR .setfile$jflags[jrnl_ru])
THEN
BEGIN
header[fh2$v_rujnl] = 0;
header[fh2$v_only_ru] = 0;
header[fh2$v_never_ru] = 0;
END;
IF .setfile$jflags[jrnl_specified_ru]
! RU
THEN
BEGIN
header[fh2$v_rujnl] = .setfile$jflags[jrnl_ru];
setfile$mflags[misc_mark_file] = 1;
status = 1;
END
ELSE IF .setfile$jflags[jrnl_specified_only_ru]
! RU only
THEN
BEGIN
header[fh2$v_only_ru] = .setfile$jflags[jrnl_only_ru];
setfile$mflags[misc_mark_file] = 1;
status = 1;
END
ELSE IF .setfile$jflags[jrnl_specified_never_ru]
! RU never
THEN
BEGIN
header[fh2$v_never_ru] = .setfile$jflags[jrnl_never_ru];
setfile$mflags[misc_mark_file] = 1;
status = 1;
END;
IF .setfile$jflags[jrnl_specified_ai]
! AI journaling
THEN
BEGIN
header[fh2$v_aijnl] = .setfile$jflags[jrnl_ai];
setfile$mflags[misc_mark_file] = 1;
status = 1;
END;
IF .setfile$jflags[jrnl_specified_at]
! AT journaling
THEN
BEGIN

```

```

1537 1529 7      header[fh2$w_atjnl] = .setfile$jflags[jrnl_at];
1538 1530 7      setfile$mflags[misc_mark_file] = 1;
1539 1531 7      status = 1;
1540 1532 6      END;
1541 1533 6      IF .setfile$jflags[jrnl_specified_bi]
1542 1534 6          . BI Journaling
1543 1535 6      THEN
1544 1536 7          BEGIN
1545 1537 7      header[fh2$w_bijnl] = .setfile$jflags[jrnl_bi];
1546 1538 7      setfile$mflags[misc_mark_file] = 1;
1547 1539 7      status = 1;
1548 1540 6      END;
1549 1541 5      END;
1550 1542 4      END;
1551 1543 4
1552 1544 4
1553 1545 4      : If there were any journal bits set, show it.
1554 1546 4      :
1555 1547 4
1556 1548 5      IF (.status EQL 1)
1557 1549 4      THEN
1558 1550 5          BEGIN
1559 1551 5      atr[.ptr,atr$w_type] = atr$c_journal;
1560 1552 5      atr[.ptr,atr$w_size] = atr$s_journal;
1561 1553 5      atr[.ptr,atr$l_addr] = header[fh2$w_journal];
1562 1554 5      ptr = .ptr + 1;
1563 1555 4      END;
1564 1556 4
1565 1557 4      :
1566 1558 4      : If an rmsjnlid ACE needs to be added, add it here.
1567 1559 4      :
1568 1560 4      : (Only one rmsjnlid ace is needed for journaled file.)
1569 1561 4      :
1570 1562 4      IF .setfile$mflags[misc_mark_file] AND NOT .setfile$mflags[misc_already_rmsjnlid]
1571 1563 4      THEN
1572 1564 5          BEGIN
1573 1565 5      :
1574 1566 5      : Build JNLID ACE: volume name + file ID + current date/time.
1575 1567 5      :
1576 1568 5      rmsjnlid_ace[ace$b_size] = id_ace$s_size;
1577 1569 5      rmsjnlid_ace[ace$b_type] = ace$c_jnlid;
1578 1570 5      rmsjnlid_ace[ace$w_flags] =
1579 1571 5          ace$m_hidden OR ace$m_protected OR ace$m_nopropagate;
1580 1572 5
1581 1573 5      $ITMLST_INIT (ITMLST = item_list, (ITMCOB = dvi$volnam,
1582 1574 5          BUFADR = label_buffer, BUFSIZ = 12));
1583 1575 5
1584 1576 5      status = $GETDVI(EFN = 1, CHAN = .channel, ITMLST = item_list,
1585 1577 5          IOSB = iosb);
1586 1578 5      IF .status
1587 1579 5      THEN
1588 1580 6          $WAITFR(EFN = 1)
1589 1581 5      ELSE
1590 1582 5          SIGNAL( set$badlogic, 0, .status, 0 );
1591 1583 5      IF NOT .iosb[0]
1592 1584 5      THEN
1593 1585 5          SIGNAL( set$badlogic, 0, .iosb[0], 0 );

```

```

1594      1586      S
1595      1587      S
1596      1588      S
1597      1589      S
1598      1590      S
1599      1591      S
1600      1592      S
1601      1593      S
1602      1594      S
1603      1595      S
1604      1596      S
1605      1597      S
1606      1598      S
1607      1599      S
1608      1600      S
1609      1601      S
1610      1602      S
1611      1603      S
1612      1604      S
1613      1605      S
1614      1606      S
1615      1607      S
1616      1608      S
1617      1609      S
1618      1610      S
1619      1611      S
1620      1612      S
1621      1613      S
1622      1614      S
1623      1615      S
1624      1616      S
1625      1617      S
1626      1618      S
1627      1619      S
1628      1620      S
1629      1621      S
1630      1622      S
1631      1623      S
1632      1624      S
1633      1625      S
1634      1626      S
1635      1627      S
1636      1628      S
1637      1629      S
1638      1630      S
1639      1631      S
1640      1632      S
1641      1633      S
1642      1634      S
1643      1635      S
1644      1636      S
1645      1637      S
1646      1638      S
1647      1639      S
1648      1640      S
1649      1641      S
1650      1642      S

      CHSMOVE(12, label_buffer, rmsjnlid_ace[id_ace$label]);

      rmsjnlid_ace[id_ace$w_num] = .nam[nam$w_fid_num];
      rmsjnlid_ace[id_ace$w_seq] = .nam[nam$w_fid_seq];
      rmsjnlid_ace[id_ace$w_rvn] = .nam[nam$w_fid_rvn];

      SGETTIM( TIMADR = rmsjnlid_ace[id_ace$w_time] );

      atr[.ptr,atr$w_type] = atr$c_addaclent;
      atr[.ptr,atr$w_size] = id_ace$w_size;
      atr[.ptr,atr$l_addr] = rmsjnlid_ace;
      ptr = .ptr + 1;
      END;

      Record journals to use in access control list.

      AI Journal Name

      IF .setfile$flags[jrnl_ai_name]
      THEN
      BEGIN
      atr[.ptr,atr$w_type] = atr$c_addaclent;
      atr[.ptr,atr$w_size] = 4 + .ai_jnl_desc[dsc$w_length];
      atr[.ptr,atr$l_addr] = ai_jnl_ace;
      ptr = .ptr + 1;

      ai_jnl_ace[ace$b_size] = 4 + .ai_jnl_desc[dsc$w_length];
      ai_jnl_ace[ace$b_type] = ace$c_aijnl;
      ai_jnl_ace[ace$w_flags] = ace$m_hidden OR ace$m_protected;

      CHSMOVE (.ai_jnl_desc[dsc$w_length],
      .ai_jnl_desc[dsc$w_pointer],
      ai_jnl_ace[ace$w_jnlname]);

      END;

      AT Journal Name

      IF .setfile$flags[jrnl_at_name]
      THEN
      BEGIN
      atr[.ptr,atr$w_type] = atr$c_addaclent;
      atr[.ptr,atr$w_size] = 4 + .at_jnl_desc[dsc$w_length];
      atr[.ptr,atr$l_addr] = at_jnl_ace;
      ptr = .ptr + 1;

      at_jnl_ace[ace$b_size] = 4 + .at_jnl_desc[dsc$w_length];
      at_jnl_ace[ace$b_type] = ace$c_atjnl;
      at_jnl_ace[ace$w_flags] = ace$m_hidden OR ace$m_protected;

```

```

1651      1643      5      CHSMOVE (.at_jnl_desc[dsc$w_length],
1652      1644      5      .at_jnl_desc[dsc$a_pointer],
1653      1645      5      at_jnl_ace[ace$t_jn(nam)]);
1654      1646      4      END;
1655      1647      4
1656      1648      4
1657      1649      4      BI Journal Name
1658      1650      4
1659      1651      4
1660      1652      4      IF .setfile$flags[jrnl_bi_name]
1661      1653      4      THEN
1662      1654      5      BEGIN
1663      1655      5      atr[.ptr,atr$w_type] = atr$c_addaclent;
1664      1656      5      atr[.ptr,atr$w_size] = 4 + .bi_jnl_desc[dsc$w_length];
1665      1657      5      atr[.ptr,atr$l_addr] = bi_jnl_ace;
1666      1658      5      ptr = .ptr + 1;
1667      1659      5
1668      1660      5      bi_jnl_ace[ace$b_size] = 4 + .bi_jnl_desc[dsc$w_length];
1669      1661      5      bi_jnl_ace[ace$b_type] = ace$c_bi_jnl;
1670      1662      5      bi_jnl_ace[ace$w_flags] = ace$m_hidden OR ace$m_protected;
1671      1663      5
1672      1664      5      CHSMOVE (.bi_jnl_desc[dsc$w_length],
1673      1665      5      .bi_jnl_desc[dsc$a_pointer],
1674      1666      5      bi_jnl_ace[ace$t_jn(nam)]);
1675      1667      4      END;
1676      1668      4
1677      1669      4
1678      1670      4
1679      1671      4      Write the modifications out to the file header, and close the file.
1680      1672      4
1681      1673      4
1682      1674      4      fib[fib$l_aclctx] = 0;          ! Make sure RMS journaling ACEs go first.
1683      1675      4      atr[.ptr,0,0,32,0] = 0;      ! Put a zero at end of attribute list
1684      1676      4
1685      1677      5      IF ( .ptr NEQ 0          ! If an attribute was changed
1686      1678      5      OR .setfile$flags[qual_trunc] ! Or the file should be truncated
1687      1679      5      OR .setfile$flags[qual_vrsn]) ! Or the version_limit set
1688      1680      4      THEN
1689      1681      5      BEGIN
1690      1682      5      LOCAL RES_DESC : $BLOCK [8],
1691      1683      5      RES_BUF : $BLOCK [512],
1692      1684      5      RES_LEN;
1693      1685      5      CH$FILL (0,8, RES_DESC);
1694      1686      5      RES_DESC[DSC$W_LENGTH] = 512;
1695      1687      5      RES_DESC[DSC$a_POINTER] = RES_BUF;
1696      1688      5      status = $QIOWT (CHAN = .channel,          ! Make the modifications
1697      1689      5      FUNC = IOS MODIFY,
1698      1690      5      IOSB = iosb,
1699      1691      5      P1 = desc,
1700      1692      5      P3 = RES_LEN,
1701      1693      5      P4 = RES_DESC,
1702      1694      5      P5 = atr);
1703      1695      5      IF .status THEN status = .iosb[0];
1704      1696      5      IF NOT .status
1705      1697      5      THEN file_error(set$writeerr,.status,.fab) ! If the modify failed, tell user
1706      1698      5      ELSE
1707      1699      5      IF .setfile$flags[qual_log]          ! If /LOG, tell user

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: 1708      1700 5          THEN SIGNAL(set$_modified,1,conf_desc);
: 1709      1701 4          END;
: 1710      1702 4
: 1711      1703 4
: 1712      1704 4          Now to close the file. Don't bother to check the status, since the
: 1713      1705 4          modifications got made correctly.
: 1714      1706 4
: 1715      P 1707 4          SIOU( CHAN = .channel,          ! Deaccess the file
: 1716      PP 1708 4          FUNC = IOS DEACCESS,
: 1717      P 1709 4          IOSB = iosB,
: 1718      1710 4          P1 = desc);
: 1719      1711 4          END;
: 1720      1712 3          END;
: 1721      1713 2
: 1722      1714 2
: 1723      1715 2          If /REMOVE or /ENTER was specified, process it
: 1724      1716 2
: 1725      1717 2          IF (.setfile$flags[qual_remove] OR .setfile$flags[qual_enter])
: 1726      1718 2          THEN
: 1727      1719 2          BEGIN
: 1728      1720 2
: 1729      1721 2          Set up the FIB appropriately
: 1730      1722 2
: 1731      1723 2
: 1732      1724 2
: 1733      1725 2          fib[fib$_did_num] = .nam[nam$_did_num];    ! Put in the directory ID
: 1734      1726 2          fib[fib$_did_seq] = .nam[nam$_did_seq];
: 1735      1727 2          fib[fib$_did_rvn] = .nam[nam$_did_rvn];
: 1736      1728 2
: 1737      1729 2
: 1738      1730 2          If /REMOVE was specified, remove the directory entry
: 1739      1731 2
: 1740      1732 2          IF .setfile$flags[qual_remove]
: 1741      1733 2          THEN
: 1742      1734 2          BEGIN
: 1743      1735 2
: 1744      1736 2          Check to see if an explicit or wild version number was specified.
: 1745      1737 2          If not, exit with an error.
: 1746      1738 2
: 1747      1739 2          IF NOT (.nam[nam$_exp_ver] OR
: 1748      1740 2          .nam[nam$_wild_ver])
: 1749      1741 2          THEN SIGNAL(set$_remerr,
: 1750      1742 2          1,
: 1751      1743 2          conf_desc,
: 1752      1744 2          set$_delver)
: 1753      1745 2
: 1754      1746 2          If /CONFIRM was set by the user, then interrogate him to see
: 1755      1747 2          if the directory entry is to be removed.
: 1756      1748 2
: 1757      1749 2          ELSE
: 1758      1750 2          IF
: 1759      1751 2          BEGIN
: 1760      1752 2          IF .setfile$flags[qual_quit_rem]
: 1761      1753 2          OR NOT .setfile$flags[qual_confirm]
: 1762      1754 2          THEN true
: 1763      1755 2          ELSE
: 1764      1756 2          BEGIN

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: 1765      1757 6      status = lib$confirm_act(%ASCIIID 'Remove directory entry for !AS? [N]: ',
: 1766      1758 6      %REF(conf_desc));
: 1767      1759 6      IF NOT .status
: 1768      1760 6      THEN
: 1769      1761 7      BEGIN
: 1770      1762 7      IF .status EQL lib$quipro
: 1771      1763 8      THEN (setfile$flags[qual_quit] = 1; RETURN true)
: 1772      1764 7      ELSE IF .status EQL lib$quiconact
: 1773      1765 8      THEN (setfile$flags[qual_quit_rem] = 1; status = 1)
: 1774      1766 7      ELSE IF .status NEQ lib$negañs
: 1775      1767 7      THEN SIGNAL(set$_writeerr, 1, conf_desc, .status);
: 1776      1768 6      END;
: 1777      1769 6      .status
: 1778      1770 6      END
: 1779      1771 5      END
: 1780      1772 4      THEN
: 1781      1773 5      BEGIN
: 1782      1774 5      fib[lib$_fid_num] = 0;           ! Clear the File ID
: 1783      1775 5      fib[lib$_fid_seq] = 0;
: 1784      1776 5      fib[lib$_fid_rvn] = 0;
: 1785      1777 5
: 1786      1778 5
: 1787      1779 5
: 1788      1780 5      !
: 1789      1781 5      ! Isolate the file portion of the resultant file string
: 1790      1782 5      !
: 1791      1783 5      file_name[0] = .nam[nam$b_name]
: 1792      1784 5      + .nam[nam$b_type]
: 1793      1785 5      + .nam[nam$b_ver];
: 1794      1786 5      file_name[1] = .nam[nam$l_name];
: 1795      1787 5
: 1796      1788 5      !
: 1797      1789 5      ! Issue the QIO to remove the directory entry
: 1798      1790 5      !
: 1799      P 1791 5      status = $QIOW( CHAN = .channel,
: 1800      P 1792 5      FUNC = IOS_DELETE,
: 1801      P 1793 5      IOSB = iosb,
: 1802      P 1794 5      P1 = desc,
: 1803      1795 5      P2 = file_name);
: 1804      1796 5      IF .status THEN status = .iosb[0];
: 1805      1797 5      IF NOT .status
: 1806      1798 5      THEN SIGNAL(set$_writeerr,           ! Error writing
: 1807      1799 5      1
: 1808      1800 5      file_name,           ! to this file
: 1809      1801 5      .status)           ! for this reason
: 1810      1802 5      ELSE
: 1811      1803 5      IF .setfile$flags[qual_log]           ! If /LOG, tell user
: 1812      1804 5      THEN SIGNAL(set$_removed,1,conf_desc);
: 1813      1805 4      END;
: 1814      1806 4      END
: 1815      1807 4      !
: 1816      1808 4      ! IF /ENTER, enter the name in the directory
: 1817      1809 4      !
: 1818      1810 3      ELSE
: 1819      1811 4      BEGIN
: 1820      1812 4      LOCAL
: 1821      1813 4      new_name : VECTOR[2],           ! Place to put new filespec

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1822      1814 4      new_fab : $BBLOCK[fab$c_bln],      ! Temp output fab
1823      1815 4      new_nam  : $BBLOCK[nam$c_bln],      ! Temp output name block
1824      1816 4      new_nam2 : $BBLOCK[nam$c_bln],      ! another temp nam block
1825      1817 4      new_desc : $BBLOCK[dsc$c_s_bln],      ! Descriptor for new name
1826      1818 4      new_nam_exp : VECTOR[nam$c_maxrss, BYTE], ! Expanded string
1827      1819 4      new_nam_exp2 : VECTOR[nam$c_maxrss, BYTE]; ! Expanded string2
1828
1829      1821 4      ! Initialize the fab and name block, using the original file name block
1830      1822 4      ! as the related file.
1831      1823 4
1832      P 1824 4      $FAB_INIT ( FAB = new_fab,
1833      P 1825 4      NAM = new_nam,
1834      P 1826 4      FNA = .file_name[1],
1835      1827 4      FNS = .file_name[0]);
1836      P 1828 4      $NAM_INIT ( NAM = new_nam,
1837      P 1829 4      RLF = nam,
1838      P 1830 4      ESA = new_nam_exp,
1839      1831 4      ESS = nam$c_maxrss);
1840      1832 4
1841      1833 4      ! If the original file specification had a wildcard version number, then
1842      1834 4      ! use one here.
1843      1835 4
1844      1836 5      IF (.nam[nam$v_wild_ver])
1845      1837 4      THEN
1846      1838 5      BEGIN
1847      1839 5      new_fab[fab$l_dna] = UPLIT(';*');
1848      1840 5      new_fab[fab$b_dns] = %CHARCOUNT(';*');
1849      1841 5      END
1850      1842 4      ELSE
1851      1843 5      BEGIN
1852      1844 5      new_fab[fab$l_dna] = 0;
1853      1845 5      new_fab[fab$b_dns] = 0;
1854      1846 4      END;
1855      1847 4
1856      1848 4      ! Parse once, with the OFP bit off, to fill in all the fields
1857      1849 4      ! from the original name block
1858      1850 4
1859      1851 4      status = $PARSE (FAB = new_fab);
1860      1852 4      CH$MOVE(nam$c_bln, new_nam, new_nam2);
1861      1853 4      parse_null_string(new_fab);
1862      1854 4      IF NOT .status
1863      1855 4      THEN
1864      1856 5      BEGIN
1865      1857 5      SIGNAL_STOP(set$_enterr,
1866      1858 5      2,
1867      1859 5      conf_desc,
1868      1860 5      file_name,
1869      1861 5      .status);
1870      1862 5      RETURN true;
1871      1863 4      END;
1872      1864 4
1873      1865 4      !
1874      1866 4      ! Now parse with OFP set, to obtain the final file name
1875      1867 4
1876      P 1868 4      $FAB_INIT( FAB = new_fab,
1877      P 1869 4      NAM = new_nam,
1878      P 1870 4      FNA = .new_nam2[nam$l_esa],

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1879 P 1871 4 FNS = .new_nam2[nam$b_esl],
1880 P 1872 4 FOP = ofp);
1881 P 1873 4 SNAM_INIT( NAM = new_nam,
1882 P 1874 4 RLF = nam,
1883 P 1875 4 ESA = new_nam_exp2,
1884 1876 4 ESS = nam$c_maxrss);
1885 1877 4
1886 1878 4 status = $PARSE (FAB = new_fab);
1887 1879 4 CHSMOVE(nam$c_bln,new_nam,new_nam2);
1888 1880 4 parse_null_string(new_fab);
1889 1881 4 IF NOT .status
1890 1882 4 THEN
1891 1883 5 BEGIN
1892 1884 5 SIGNAL(set$_enterr, ! Error entering
1893 1885 5 2,
1894 1886 5 conf_desc, ! This file
1895 1887 5 file_name, ! as this file
1896 1888 5 .status); ! Not on same device
1897 1889 5 RETURN true;
1898 1890 4 END;
1899 1891 4
1900 1892 4
1901 1893 4 : Get the full file name
1902 1894 4
1903 1895 4 new_name[0] = .new_nam2[nam$b_esl];
1904 1896 4 new_name[1] = .new_nam2[nam$l_esa];
1905 1897 4
1906 1898 4
1907 1899 4 : Find the actual file name
1908 1900 4
1909 1901 4 new_desc[dsc$w_length] = .new_nam2[nam$b_name]
1910 1902 4 + .new_nam2[nam$b_type]
1911 1903 4 + .new_nam2[nam$b_ver];
1912 1904 4 new_desc[dsc$a_pointer] = .new_nam2[nam$l_name];
1913 1905 4
1914 1906 4
1915 1907 4 : Put in the file ID of the target directory
1916 1908 4
1917 1909 4 fib[fib$w_did_num] = .new_nam2[nam$w_did_num];
1918 1910 4 fib[fib$w_did_seq] = .new_nam2[nam$w_did_seq];
1919 1911 4 fib[fib$w_did_rvn] = .new_nam2[nam$w_did_rvn];
1920 1912 4
1921 1913 4 : Check to see that the enter request is for the same device. If not,
1922 1914 4 signal an error. This is done by comparing the DVI field of the RMS
1923 1915 4 name blocks.
1924 1916 4
1925 1917 4
1926 1918 4 IF CH$NEQ(.(nam[nam$t_dvi])<0,8>, nam[nam$t_dvi]+1,
1927 1919 4 .(new_nam2[nam$t_dvi])<0,8>, new_nam2[nam$t_dvi]+1, 0)
1928 1920 4 THEN SIGNAL(set$-enterr, ! Error entering
1929 1921 4 2,
1930 1922 4 conf_desc, ! This file
1931 1923 4 new_name, ! as this file
1932 1924 4 RMS$-DEV) ! Not on same device
1933 1925 4 ELSE
1934 1926 4
1935 1927 4 : If /CONFIRM was set by the user, then interrogate him to see

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: 1936 1928 4 : if the file is to be entered in a directory.
: 1937 1929 4 :
: 1938 1930 4 :     IF
: 1939 1931 5 :         BEGIN
: 1940 1932 5 :             IF .setfile$flags[qual_quit_ent]
: 1941 1933 5 :             OR NOT .setfile$flags[qual_confirm]
: 1942 1934 5 :             THEN true
: 1943 1935 5 :             ELSE
: 1944 1936 6 :                 BEGIN
: 1945 1937 6 :                 LOCAL
: 1946 1938 6 :                     arglist : VECTOR[2];
: 1947 1939 6 :                     arglist[0] = conf_desc;
: 1948 1940 6 :                     arglist[1] = new_name;
: 1949 1941 6 :                     status = lib$confirm_act(%ASCID 'Enter !AS as !AS? [N]: ',
: 1950 1942 6 :                         arglist);
: 1951 1943 6 :                 IF NOT .status
: 1952 1944 6 :                 THEN
: 1953 1945 7 :                     BEGIN
: 1954 1946 7 :                         IF .status EQL lib$ quipro
: 1955 1947 8 :                         THEN (setfile$flags[qual_quit] = 1; RETURN true)
: 1956 1948 7 :                         ELSE IF .status EQL lib$ quiconact
: 1957 1949 8 :                         THEN (setfile$flags[qual_quit_ent] = 1; status = 1)
: 1958 1950 7 :                         ELSE IF .status NEQ lib$ negans
: 1959 1951 7 :                         THEN SIGNAL(set$_writeerr, 1, conf_desc, .status);
: 1960 1952 6 :                     END;
: 1961 1953 6 :                 .status
: 1962 1954 6 :                 END
: 1963 1955 5 :             END
: 1964 1956 4 :         THEN
: 1965 1957 5 :             BEGIN
: 1966 1958 5 :                 Issue the QIO
: 1967 1959 5 :
: 1968 1960 5 :                 status = $QIOW( CHAN = .channel,      ! Enter the new name
: 1969 1961 5 :                     FUNC = IOS$ CREATE,
: 1970 1962 5 :                     IOSB = iosb,
: 1971 1963 5 :                     P1 = desc,
: 1972 1964 5 :                     P2 = new_desc);
: 1973 1965 5 :                 IF .status THEN status = .iosb[0];
: 1974 1966 5 :                 IF NOT .status
: 1975 1967 5 :                 THEN SIGNAL(set$_enterr,
: 1976 1968 5 :                     2,
: 1977 1969 5 :                     conf_desc,
: 1978 1970 5 :                     new_name,
: 1979 1971 5 :                     .status)
: 1980 1972 5 :                     ! Error entering
: 1981 1973 5 :                     ! this file
: 1982 1974 5 :                     ! as this file
: 1983 1975 5 :                     ! for this reason
: 1984 1976 5 :                 ELSE
: 1985 1977 4 :                     IF .setfile$flags[qual_log]
: 1986 1978 3 :                     THEN SIGNAL(set$_entered,2,conf_desc,new_name);
: 1987 1979 2 :                 END;
: 1988 1980 2 :                 ! End of /ENTER block
: 1989 1981 2 :                 ! End of modify block
: 1990 1982 2 :             END;
: 1991 1983 2 :         IF /UNLOCK was specified by the user
: 1992 1984 2 :         THEN

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P
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: 1993      1985      3      IF NOT (status = unlock_action(.fab))
: 1994      1986      3      THEN
: 1995      1987      3      SIGNAL(set$_unlockerr,1,conf_desc,.status);
: 1996      1988      3
: 1997      1989      3
: 1998      1990      3      If /PROTECTION was specified by the user
: 1999      1991      3
: 2000      1992      3      IF .setfile$flags[qual_protection]
: 2001      1993      3      THEN
: 2002      1994      3      IF NOT (status = setpro_action(.fab))
: 2003      1995      3      THEN
: 2004      1996      3      SIGNAL(set$_proerr,1,conf_desc,.status);
: 2005      1997      3
: 2006      1998      3
: 2007      1999      3
: 2008      2000      3      Deassign the channel
: 2009      2001      3
: 2010      2002      3      IF NOT (status = $DASSGN(CHAN = .channel))
: 2011      2003      3      THEN file_error(set$_closeerr,.status,.fab);           ! If deassign failed, say so
: 2012      2004      3
: 2013      2005      3      RETURN true;                                           ! Continue processing other files
: 2014      2006      3      END;

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.PSECT $SPLITS,NOWRT,NOEXE,2
53 41 21 20 65 6C 69 66 20 79 66 69 64 6F 4D 003A0 P.ADN: .ASCII \Modify file !AS? [N]: \<0>
00 20 3A 20 5D 4E 5B 20 3F 003AF
010E0017 003B8 P.ADM: .LONG 17694743
00000000 003BC .ADDRESS P.ADN
45 53 41 52 45 2F 003C0 P.ADP: .ASCII \ERASE\
003C6 .BLKB 2
00000006 003C8 P.ADO: .LONG 6
00000000 003CC .ADDRESS P.ADP
45 53 41 52 45 4F 4E 2F 003D0 P.ADR: .ASCII \NOERASE\
00000008 003D8 P.ADQ: .LONG 8
00000000 003DC .ADDRESS P.ADR
59 52 4F 54 43 45 52 49 44 4F 4E 2F 003E0 P.ADT: .ASCII \NODIRECTORY\
0000000C 003EC P.ADS: .LONG 12
00000000 003F0 .ADDRESS P.ADT
4C 41 4E 52 55 4F 4A 2F 003F4 P.ADV: .ASCII \JOURNAL\
00000008 003FC P.ADU: .LONG 8
00000000 00400 .ADDRESS P.ADV
72 6F 7 63 65 72 69 64 20 65 76 6F 6D 65 52 00404 P.ADX: .ASCII \Remove directory entry for !AS? [N]: \<0>
53 41 21 20 72 6F 66 20 79 72 74 6E 65 20 79 00413
00 20 3A 5D 4E 5B 20 3F 00422
00 00 0042A .ASCII <0><0>
010E0025 0042C P.ADW: .LONG 17694757
00000000 00430 .ADDRESS P.ADX
00 2A 3B 00434 P.ADY: .ASCII \:* \<0><0>
41 21 20 73 61 20 53 41 21 20 72 00 74 6E 45 00438 P.AEA: .ASCII \Enter !AS as !AS? [N]: \<0>
00 20 3A 5D 4E 5B 20 3F 53 00447
010E0017 00450 P.ADZ: .LONG 17694743
00000000 00454 .ADDRESS P.AEA
.PSECT $OWNS,NOEXE,2

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	FF54	CD	24	A7	D0	000AD	MOVL	36(R7), FIB+4	1117
	FF58	CD	28	A7	B0	000B3	MOVW	40(R7), FIB+8	1119
3E		6B		01	E0	000B9	BBS	#1, SETFILES\$FLAGS, 5\$	1126
3A		6B		02	E0	000BD	BBS	#2, SETFILES\$FLAGS, 5\$	1127
36		6B		04	E0	000C1	BBS	#4, SETFILES\$FLAGS, 5\$	1128
32		6B		05	E0	000C5	BBS	#5, SETFILES\$FLAGS, 5\$	1129
2E		6B		06	E0	000C9	BBS	#6, SETFILES\$FLAGS, 5\$	1130
				6B	95	000CD	TSTB	SETFILES\$FLAGS	1131
				2A	19	000CF	BLSS	5\$	
		26	01	AB	E8	000D1	BLBS	SETFILES\$FLAGS+1, 5\$	1132
21	01	AB		01	E0	000D5	BBS	#1, SETFILES\$FLAGS+1, 5\$	1133
1C	01	AB		02	E0	000DA	BBS	#2, SETFILES\$FLAGS+1, 5\$	1134
17	01	AB		03	E0	000DF	BBS	#3, SETFILES\$FLAGS+1, 5\$	1135
12	01	AB		05	E0	000E4	BBS	#5, SETFILES\$FLAGS+1, 5\$	1136
0D	01	AB		06	E0	000E9	BBS	#6, SETFILES\$FLAGS+1, 5\$	1137
08	02	AB		01	E0	000EE	BBS	#1, SETFILES\$FLAGS+2, 5\$	1138
03	02	AB		03	E0	000F3	BBS	#3, SETFILES\$FLAGS+2, 5\$	1139
				0700	31	000F8	BRW	72\$	
			02	AB	95	000FB	5\$: TSTB	SETFILES\$FLAGS+2	1142
				5E	19	000FE	BLSS	9\$	
5A		6B		03	E1	00100	BBC	#3, SETFILES\$FLAGS, 9\$	1143
		6E	018C	CB	9E	00104	MOVAB	CONF_DESC, (SP)	1148
			00000000'	5E	DD	00109	PUSHL	SP	
				EF	9F	0010B	PUSHAB	P.ADM	1147
00000000G	00			02	FB	00111	CALLS	#2, LIB\$CONFIRM_ACT	
	58			50	D0	00118	MOVL	R0, STATUS	
	40			58	E8	0011B	BLBS	STATUS, 9\$	1149
00000000G	8F			58	D1	0011E	CMPL	STATUS, #LIB\$_QUIPRO	1152
				03	12	00125	BNEQ	6\$	
				09C3	31	00127	BRW	89\$	
00000000G	8F			58	D1	0012A	6\$: CMPL	STATUS, #LIB\$_QUICONACT	1154
				0A	12	00131	BNEQ	7\$	
	02	AB	80	8F	88	00133	BISB2	#128, SETFILES\$FLAGS+2	1155
		58		01	D0	00138	MOVL	#1, STATUS	
				1E	11	0013B	BRB	8\$	
00000000G	8F			58	D1	0013D	7\$: CMPL	STATUS, #LIB\$_NEGANS	1156
				15	13	00144	BEQL	8\$	
				58	DD	00146	PUSHL	STATUS	1157
			018C	CB	9F	00148	PUSHAB	CONF_DESC	
				01	DD	0014C	PUSHL	#1	
			00000000G	8F	DD	0014E	PUSHL	#SETS\$WRITEERR	
00000000G	00			04	FB	00154	CALLS	#4, LIB\$SIGNAL	
	70			58	E9	0015B	8\$: BLBC	STATUS, 11\$	1159
	98	AD	000A0200	8F	D0	0015E	9\$: MOVL	#655872, ATR	1166
	9C	AD	FD50	CD	9E	00166	MOVAB	HEADER, ATR+4	1167
	A0	AD	00230020	8F	D0	0016C	MOVL	#2293792, ATR+8	1169
	A4	AD	00000000'	EF	9E	00174	MOVAB	RMSJNLID_ACE, ATR+12	1170
				A8	AD	D4	CLRL	ATR+16	1171
00000000'	EF	06000820		8F	D0	0017F	MOVL	#100665376, RMSJNLID_ACE	1173
				7E	D4	0018A	CLRL	-(SP)	1181
				98	AD	9F	PUSHAB	ATR	
				7E	7C	0018F	CLRQ	-(SP)	
				7E	D4	00191	CLRL	-(SP)	
				90	AD	9F	PUSHAB	DESC	
				7E	7C	00196	CLRQ	-(SP)	
			FCF0	CD	9F	00198	PUSHAB	IOSB	
			7E	72	8F	9A	MOVZBL	#114, -(SP)	

		59	2C	AE	3C	001A0	MOVZWL	CHANNEL, R9	
				59	DD	001A4	PUSHL	R9	
				7E	D4	001A6	CLRL	-(SP)	
	00000000G	00		0C	FB	001A8	CALLS	#12, SYSSQIOW	
		58		50	DO	001AF	MOVL	R0, STATUS	
		08		58	E9	001B2	BLBC	STATUS, 10\$	1182
		58	FCFO	CD	3C	001B5	MOVZWL	IOSB, \$STATUS	
		14		58	E8	001BA	BLBS	STATUS, 12\$	1183
			0500	8F	BB	001BD	PUSHR	#*M<R8,R10>	1184
			00000000G	8F	DD	001C1	PUSHL	#SETS\$ READERR	
	00000000V	EF		03	FB	001C7	CALLS	#3, FILE_ERROR	
				062A	31	001CE	BRW	72\$	
		01	FD57	CD	91	001D1	CMPB	HEADER+7, #1	1191
				08	12	001D6	BNEQ	13\$	
FD64	CD	FD5E	CD	20	28	001D8	MOV3	#32, HEADER+14, HEADER+20	1192
			00000000'	EF	95	001E0	TSTB	RMSJNLID_ACE+1	1198
				04	13	001E6	BEQL	14\$	
		OC	AB	04	88	001E8	BISB2	#4, SETFILES\$MFLAGS	1200
				56	D4	001EC	CLRL	PTR	1207
				58	D4	001EE	CLRL	STATUS	1212
08		6B		01	E1	001F0	BBC	#1, SETFILES\$FLAGS, 15\$	1214
	FD84	CD		02	8A	001F4	BICB2	#2, HEADER+52	1217
		58		01	DO	001F9	MOVL	#1, STATUS	1218
08		6B		02	E1	001FC	BBC	#2, SETFILES\$FLAGS, 16\$	1220
	FD84	CD		02	88	00200	BISB2	#2, HEADER+52	1223
		58		01	DO	00205	MOVL	#1, STATUS	1224
26		6B		06	E1	00208	BBC	#6, SETFILES\$FLAGS, 18\$	1227
		01	FD57	CD	91	0020C	CMPB	HEADER+7, #1	1230
				17	12	00211	BNEQ	17\$	
			00000000'	EF	9F	00213	PUSHAB	P.ADD	1233
				01	DD	00219	PUSHL	#1	1231
			00000000G	8F	DD	0021B	PUSHL	#SETS\$ NOTODS2	
	00000000G	00		03	FB	00221	CALLS	#3, LIB\$SIGNAL	
				08	11	00228	BRB	18\$	
	FD86	CD		02	88	0022A	BISB2	#2, HEADER+54	1236
		58		01	DO	0022F	MOVL	#1, STATUS	1237
				6B	95	00232	TSTB	SETFILES\$FLAGS	1240
				26	18	00234	BGEQ	20\$	
		01	FD57	CD	91	00236	CMPB	HEADER+7, #1	1243
				17	12	0023B	BNEQ	19\$	
			00000000'	EF	9F	0023D	PUSHAB	P.ADD	1246
				01	DD	00243	PUSHL	#1	1244
			00000000G	8F	DD	00245	PUSHL	#SETS\$ NOTODS2	
	00000000G	00		03	FB	00248	CALLS	#3, LIB\$SIGNAL	
				08	11	00252	BRB	20\$	
	FD86	CD		02	8A	00254	BICB2	#2, HEADER+54	1249
		58		01	DO	00259	MOVL	#1, STATUS	1250
28		6B		04	E1	0025C	BBC	#4, SETFILES\$FLAGS, 25\$	1254
05		04	AB	01	E1	00260	BBC	#1, SETFILES\$D_FLAGS, 21\$	1257
	FD84	CD		08	88	00265	BISB2	#8, HEADER+52	
05		04	AB	03	E1	0026A	BBC	#3, SETFILES\$D_FLAGS, 22\$	1258
	FD84	CD		08	8A	0026F	BICB2	#8, HEADER+52	
05		04	AB	02	E1	00274	BBC	#2, SETFILES\$D_FLAGS, 23\$	1259
	FD84	CD		10	88	00279	BISB2	#16, HEADER+52	
05		04	AB	04	E1	0027E	BBC	#4, SETFILES\$D_FLAGS, 24\$	1260
	FD84	CD		10	8A	00283	BICB2	#16, HEADER+52	
		58		01	DO	00288	MOVL	#1, STATUS	1261

26	01	AB	05	E1	00288	25\$:	BBC	#5, SETFILES\$FLAGS+1, 27\$	1264		
		01	FD57	CD	91	00290	CMPB	HEADER+7, #1	1267		
				17	12	00295	BNEQ	26\$			
			00000000'	EF	9F	00297	PUSHAB	P.ADS	1270		
				01	DD	0029D	PUSHL	#1	1268		
	00000000G	00	00000000G	8F	DD	0029F	PUSHL	#SETS NOTODS2			
				03	FB	002A5	CALLS	#3, LIB\$SIGNAL			
				08	11	002AC	BRB	27\$			
	FD85	CD		20	8A	002AE	BICB2	#32, HEADER+53	1273		
		58		01	DO	002B3	MOVL	#1, STATUS	1274		
		1B		58	E9	002B6	BLBC	STATUS, 28\$	1281		
				9A	AD46	7F	002B9	27\$:			
				03	B0	002BD	PUSHAQ	ATR+2[PTR]	1284		
		9E		98	AD46	7F	002C0	MOVW	#3, @(SP)+		
				04	B0	002C4	PUSHAQ	ATR[PTR]	1285		
		9E		9C	AD46	7F	002C7	MOVW	#4, @(SP)+		
				FD84	CD	9E	002CB	PUSHAQ	ATR+4[PTR]	1286	
				56	D6	002D0	MOVAB	HEADER+52, @(SP)+			
				58	D4	002D2	INCL	PTR	1287		
				01	E1	002D4	C.RL	STATUS	1288		
09	01	AB		20	AB	B0	002D9	28\$:	#1, SETFILES\$FLAGS+1, 29\$	1295	
	FD76	CD		01	DO	002DF	MOVW	EXT VALUE, RECATTR+18	1298		
		58		05	E1	002E2	MOVL	#1, STATUS	1299		
3C		6B		24	A7	B1	002E6	29\$:	#5, SETFILES\$FLAGS, 31\$	1306	
		01		25	12	002EA	CMPL	36(R7), #1	1309		
				26	A7	B1	002EC	BNEQ	30\$		
				1F	12	002F0	CMPL	38(R7), #1	1310		
				29	A7	95	002F2	BNEQ	30\$		
				1A	12	002F5	TSTB	41(R7)	1311		
		7E	0800	8F	3C	002F7	BNEQ	30\$			
			018C	CB	9F	002FC	MOVZWL	#2048, -(SP)	1312		
				01	DD	00300	PUSHAB	CONF_DESC			
			00000000G	8F	DD	00302	PUSHL	#1			
				04	FB	00308	PUSHL	#SETS WRITEERR			
				11	11	0030F	CALLS	#4, LIB\$SIGNAL			
	FD6C	CD	FD68	CD	DO	00311	BRB	31\$			
	FD70	CD	0200	8F	B0	00318	MOVL	RECATTR+4, RECATTR+8	1318		
		58		01	DO	0031F	MOVW	#512, RECATTR+12	1319		
09	01	AB		02	E1	00322	MOVL	#1, STATUS	1320		
	FD78	CD	24	AB	B0	00327	BBC	#2, SETFILES\$FLAGS+1, 32\$	1327		
		58		01	DO	0032D	MOVW	GBUF VALUE, RECATTR+20	1330		
		19		58	E9	00330	MOVL	#1, STATUS	1331		
				9A	AD46	7F	00333	32\$:	BLBC	STATUS, 33\$	1336
				04	B0	00337	PUSHAQ	ATR+2[PTR]	1339		
		9E		98	AD46	7F	0033A	MOVW	#4, @(SP)+		
				20	B0	0033E	PUSHAQ	ATR[PTR]	1340		
		9E		9C	AD46	7F	00341	MOVW	#32, @(SP)+		
				FD64	CD	9E	00345	PUSHAQ	ATR+4[PTR]	1341	
				56	D6	0034A	MOVAB	HEADER+20, @(SP)+			
				01	AB	E9	0034C	INCL	PTR	1342	
FD76	CD	18		08	28	00350	BLBC	SETFILES\$FLAGS+1, 34\$	1348		
				9A	AD46	7F	00357	MOV3	#8, EXP VALUE, HEADER+38	1351	
		9E		13	B0	0035B	PUSHAQ	ATR+2[PTR]	1352		
				98	AD46	7F	0035E	MOVW	#19, @(SP)+		
		9E		08	B0	00362	PUSHAQ	ATR[PTR]	1353		
				9C	AD46	7F	00365	MOVW	#8, @(SP)+		
		9E	FD76	CD	9E	00369	PUSHAQ	ATR+4[PTR]	1354		
							MOVAB	HEADER+38, @(SP)+			

03	01	AB		56	D6	0036E		INCL	PTR		1355
				06	E0	00370	348:	BBS	#6, SETFILES\$FLAGS+1, 35\$		1361
			010A	31	00375			BRW	43\$		
			01	AB	95	00378	358:	TSTB	SETFILES\$FLAGS+1		1371
				03	19	0037B		BLSS	37\$		
			00E3	31	0037D		368:	BRW	42\$		
00000000'	EF	2A		A7	B1	00380	378:	CMPW	42(R7), OLD_DID_NUM		1374
				14	12	00388		BNEQ	38\$		
00000000'	EF	2C		A7	B1	0038A		CMPW	44(R7), OLD_DID_SEQ		1375
				0A	12	00392		BNEQ	38\$		
00000000'	EF	2E		A7	B1	00394		CMPW	46(R7), OLD_DID_RVN		1376
				DF	13	0039C		BEQL	36\$		
0320	CE	39		A7	9B	0039E	388:	MOVZBW	57(R7), TEMP_DESC		1385
FCDC	CD	44		A7	D0	003A4		MOVL	68(R7), TEMP_DESC+4		1386
				7E	7C	003AA		CLRQ	-(SP)		1388
			10	AE	9F	003AC		PUSHAB	TEMP_CHAN		
			FCDB	CD	9F	003AF		PUSHAB	TEMP_DESC		
00000000G	00			04	FB	003B3		CALLS	#4, SYSS\$ASSIGN		
	58			50	D0	003BA		MOVL	R0, STATUS		
	1A			58	E8	003BD		BLBS	STATUS, 39\$		
				59	DD	003C0		PUSHL	R9		1391
00000000G	00			01	FB	003C2		CALLS	#1, SYSS\$DASSGN		
				58	DD	003C9		PUSHL	STATUS		1392
			018C	CB	9F	003CB		PUSHAB	CONF_DESC		
				01	DD	003CF		PUSHL	#1		
			00000000G	8F	DD	003D1		PUSHL	#SETS_OPENDIR		
				FCB1	31	003D7		BRW	1\$		
20	00	6E		00	2C	003DA	398:	MOVCS	#0, (SP), #0, #32, TEMP_FIB		1396
			0300	CE		003DF					
	0300	CE	0401	8F	3C	003E2		MOVZWL	#1025, TEMP_FIB		1398
	0304	CE	2A	A7	D0	003E9		MOVL	42(R7), TEMP_FIB+4		1399
	0308	CE	2E	A7	B0	003EF		MOVW	46(R7), TEMP_FIB+8		1401
	FCE0	CD	00150004	8F	D0	003F5		MOVL	#1376260, TEMP_ATR		1404
	FCE4	CD		28	AB	9E	003FE	MOVAB	UIC VALUE, TEMP_ATR+4		1405
			FCB8	CD	D4	00404		CLRL	TEMP_ATR+8		1406
	0320	CE		20	B0	00408		MOVW	#32, TEMP_DESC		1408
	FCDC	CD	0300	CE	9E	0040D		MOVAB	TEMP_FIB, TEMP_DESC+4		1409
				7E	D4	00414		CLRL	-(SP)		1415
			FCB0	CD	9F	00416		PUSHAB	TEMP_ATR		
				7E	7C	0041A		CLRQ	-(SP)		
				7E	D4	0041C		CLRL	-(SP)		
			FCDB	CD	9F	0041E		PUSHAB	TEMP_DESC		
				7E	7C	00422		CLRQ	-(SP)		
			FCF0	CD	9F	00424		PUSHAB	IOSB		
				32	DD	00428		PUSHL	#50		
			30	AE	DD	0042A		PUSHL	TEMP_CHAN		
				7E	D4	0042D		CLRL	-(SP)		
00000000G	00			0C	FB	0042F		CALLS	#12, SYSS\$QIOW		
	58			50	D0	00436		MOVL	R0, STATUS		
	08			58	E9	00439		BLBC	STATUS, 40\$		1416
	58		FCFL	CD	3C	0043C		MOVZWL	IOSB, STATUS		
	15			58	E8	00441		BLBS	STATUS, 41\$		1417
				58	DD	00444	408:	PUSHL	STATUS		1418
			018C	CB	9F	00446		PUSHAB	CONF_DESC		
				01	DD	0044A		PUSHL	#1		
			00000000G	8F	DD	0044C		PUSHL	#SETS_OPENDIR		
00000000G	00			04	FB	00452		CALLS	#4, LIB\$STOP		

FD98	50	08	14	0C	AB	02	88	0055D	53\$:	BISB2	#2, SETFILES\$MFLAGS	1513
	CD		AB	58	58	01	DO	00561		MOVL	#1, STATUS	1514
			01	08	AB	02	E1	00564	54\$:	BBC	#2, SETFILES\$JFLAGS, 55\$	1517
			01	01	01	01	EF	00569		EXTZV	#1, #1, SETFILES\$JFLAGS, R0	1521
			01	0C	03	50	FO	0056F		INSV	R0, #3, #1, HEADER+72	
			01	08	AB	02	88	00576		BISB2	#2, SETFILES\$MFLAGS	1522
			01	58	58	01	DO	0057A		MOVL	#1, STATUS	1523
			01	08	AB	04	E1	0057D	55\$:	BBC	#4, SETFILES\$JFLAGS, 56\$	1525
			01	01	01	03	EF	00582		EXTZV	#3, #1, SETFILES\$JFLAGS, R0	1529
			01	0C	04	50	FO	00588		INSV	R0, #4, #1, HEADER+72	
			01	08	AB	02	88	0058F		BISB2	#2, SETFILES\$MFLAGS	1530
			01	58	58	01	DO	00593		MOVL	#1, STATUS	1531
			01	08	AB	06	E1	00596	56\$:	BBC	#6, SETFILES\$JFLAGS, 57\$	1533
			01	01	01	05	EF	00598		EXTZV	#5, #1, SETFILES\$JFLAGS, R0	1537
			01	0C	02	50	FO	005A1		INSV	R0, #2, #1, HEADER+72	
			01	58	AB	02	88	005A8		BISB2	#2, SETFILES\$MFLAGS	1538
			01	01	58	01	DO	005AC		MOVL	#1, STATUS	1539
			01	58	01	58	D1	005AF	57\$:	CMPL	STATUS, #1	1548
			01	19	12	005B2				BNEQ	58\$	
			01	9A	AD46	7F	005B4			PUSHAQ	ATR+2[PTR]	1551
			01	9E	1D	80	005B8			MOVW	#29, @ (SP)+	
			01	98	AD46	7F	005BB			PUSHAQ	ATR[PTR]	1552
			01	9E	02	80	005BF			MOVW	#2, @ (SP)+	
			01	9C	AD46	7F	005C2			PUSHAQ	ATR+4[PTR]	1553
			01	9E	FD98	CD	9E	005C6		MOVAB	HEADER+72, @ (SP)+	
			01	56	D6	005CB				INCL	PTR	1554
			01	03	0C	AB	01	EO	58\$:	BBS	#1, SETFILES\$MFLAGS, 60\$	1562
			01	F8	00BD	31	005D2		59\$:	BRW	64\$	
			01	00000C00	02	EO	005D5		60\$:	BBS	#2, SETFILES\$MFLAGS, 59\$	
			01	0E000820	8F	DO	005DA			MOVL	#234883104, RMSJNLID ACE	1568
			01	50	FD40	CD	9E	005E5		MOVAB	ITEM LIST, \$\$ITMBLKPTR	1574
			01	80	0022000C	8F	DO	005EA		MOVL	#2228236, (\$\$ITMBLKPTR)+	
			01	80	FCF8	CD	9E	005F1		MOVAB	LABEL BUFFER, (\$\$ITMBLKPTR)+	
			01	80	7C	005F6				CLRQ	(\$\$ITMBLKPTR)+	
			01	7E	7C	005F8				CLRQ	-(SP)	1577
			01	7E	D4	005FA				CLRL	-(SP)	
			01	FCF0	CD	9F	005FC			PUSHAB	IOSB	
			01	FD40	CD	9F	00600			PUSHAB	ITEM LIST	
			01	7E	D4	00604				CLRL	-(SP)	
			01	59	DD	00606				PUSHL	R9	
			01	0000000G	01	DD	00608			PUSHL	#1	
			01	00	08	FB	0060A			CALLS	#8, SYSSGETDVI	
			01	58	50	DO	00611			MOVL	R0, STATUS	
			01	08	58	E9	00614			BLBC	STATUS, 61\$	1578
			01	0000000G	01	DD	00617			PUSHL	#1	1580
			01	00	01	FB	00619			CALLS	#1, SYSSWAITFR	
			01	13	11	00620				BRB	62\$	
			01	7E	D4	00622			61\$:	CLRL	-(SP)	1582
			01	58	DD	00624				PUSHL	STATUS	
			01	7E	D4	00626				CLRL	-(SP)	
			01	0000000G	00	00771124	8F	DD	00628	PUSHL	#7803172	
			01	16	FCF0	CD	E8	00635	62\$:	CALLS	#4, LIB\$SIGNAL	
			01	7E	FCF0	CD	3C	0063C		BLBS	IOSB, 63\$	1583
			01	7E	FCF0	CD	3C	0063C		CLRL	-(SP)	1585
			01	00771124	7E	D4	00641			MOVZWL	IOSB, -(SP)	
			01	8F	DD	00643				CLRL	-(SP)	
			01	8F	DD	00643				PUSHL	#7803172	

00000000'	EF	00000000G	00	04	FB	00649	CALLS	#4, LIBSSIGNAL		
		FCF8	CD	0C	28	00650	MOV C3	#12, LABEL_BUFFER, RMSJNLID_ACE+4	1587	
		00000000'	EF	24	A7	D0	0065A	MOVL	36(R7), RMSJNLID_ACE+16	1589
		00000000'	EF	28	A7	B0	00662	MOVW	40(R7), RMSJNLID_ACE+20	1591
		00000000G	00	01	FB	00670	PUSHAB	RMSJNLID_ACE+24	1593	
			9A	AD46	7F	00677	CALLS	#1, SYSSGETTIM		
			9E	1F	BC	0067B	PUSHAQ	ATR+2[PTR]	1595	
			98	AD46	7F	0067E	MOVW	#31, @(SP)+		
			9E	20	B0	00682	PUSHAQ	ATR[PTR]	1596	
			9C	AD46	7F	00685	MOVW	#32, @(SP)+		
			9E	00000000'	EF	9E	00689	PUSHAQ	ATR+4[PTR]	1597
				56	D6	00690	MOVAB	RMSJNLID_ACE, @(SP)+		
3C	09		AB	05	E1	00692	INCL	PTR	1598	
			9A	AD46	7F	00697	BBC	#5, SETFILESJFLAGS+1, 65\$	1610	
			9E	1F	B0	0069B	PUSHAQ	ATR+2[PTR]	1613	
			50	0170	CB	3C	0069E	MOVW	#31, @(SP)+	
			50	04	CO	006A3	MOVZWL	AI_JNL_DESC, R0	1614	
			98	AD46	7F	006A6	ADDL2	#4, R0		
			9E	50	B0	006AA	PUSHAQ	ATR[PTR]		
			9C	AD46	7F	006AD	MOVW	R0, @(SP)+		
			9E	FD2C	CD	9E	006B1	PUSHAQ	ATR+4[PTR]	1615
				56	D6	006B6	MOVAB	AI_JNL_ACE, @(SP)+		
		FD2C	CD	50	90	006B8	INCL	PTR	1616	
		FD2D	CD	03	90	006BD	MOV B	R0, AI_JNL_ACE	1618	
		FD2E	CD	0600	8F	B0	006C2	MOV B	#3, AI_JNL_ACE+1	1619
FD30	CD	0174	DB	0170	CB	28	006C9	MOVW	#1536, AI_JNL_ACE+2	1620
	3C	09	AB	06	E1	006D3	MOV C3	AI_JNL_DESC, @AI_JNL_DESC+4, AI_JNL_ACE+4	1624	
			9A	AD46	7F	006D8	65\$:	BBC	#6, SETFILESJFLAGS+1, 66\$	1631
			9E	1F	B0	006DC	PUSHAQ	ATR+2[PTR]	1634	
			50	0178	CB	3C	006DF	MOVW	#31, @(SP)+	
			50	04	CO	006E4	MOVZWL	AT_JNL_DESC, R0	1635	
			98	AD46	7F	006E7	ADDL2	#4, R0		
			9E	50	B0	006EB	PUSHAQ	ATR[PTR]		
			9C	AD46	7F	006EE	MOVW	R0, @(SP)+		
			9E	FD18	CD	9E	006F2	PUSHAQ	ATR+4[PTR]	1636
				56	D6	006F7	MOVAB	AT_JNL_ACE, @(SP)+		
		FD18	CD	50	90	006F9	INCL	PTR	1637	
		FD19	CD	04	90	006FE	MOV B	R0, AT_JNL_ACE	1639	
		FD1A	CD	0600	8F	B0	00703	MOV B	#4, AT_JNL_ACE+1	1640
FD1C	CD	017C	DB	0178	CB	28	0070A	MOVW	#1536, AT_JNL_ACE+2	1641
				09	AB	95	00714	MOV C3	AT_JNL_DESC, @AT_JNL_DESC+4, AT_JNL_ACE+4	1645
				3C	18	00717	66\$:	TSTB	SETFILESJFLAGS+1	1652
			9A	AD46	7F	00719	BGEQ	67\$		
			9E	1F	B0	0071D	PUSHAQ	ATR+2[PTR]	1655	
			50	0180	CB	3C	00720	MOVW	#31, @(SP)+	
			50	04	CO	00725	MOVZWL	BI_JNL_DESC, R0	1656	
			98	AD46	7F	00728	ADDL2	#4, R0		
			9E	50	B0	0072C	PUSHAQ	ATR[PTR]		
			9C	AD46	7F	0072F	MOVW	R0, @(SP)+		
			9E	FD04	CD	9E	00733	PUSHAQ	ATR+4[PTR]	1657
				56	D6	00738	MOVAB	BI_JNL_ACE, @(SP)+		
		FD04	CD	50	90	0073A	INCL	PTR	1658	
		FD05	CD	02	90	0073F	MOV B	R0, BI_JNL_ACE	1660	
		FD06	CD	0600	8F	B0	00744	MOV B	#2, BI_JNL_ACE+1	1661
FD08	CD	0184	DB	0180	CB	28	0074B	MOVW	#1536, BI_JNL_ACE+2	1662
				80	AD	D4	00755	MOV C3	BI_JNL_DESC, @BI_JNL_DESC+4, BI_JNL_ACE+4	1666
							67\$:	CLRL	FIB+48	1674

			98	AD46	7F	00758	PUSHAQ	ATR PTR]	1675
				9E	D4	0075C	CLRL	@(SP)+	
				56	D5	0075E	TSTL	PTR	1677
				0A	12	00760	BNEQ	68\$	
05	02	AB		01	E0	00762	BBS	#1, SETFILES\$FLAGS+2, 68\$	1678
73	02	AB		03	E1	00767	BBC	#3, SETFILES\$FLAGS+2, 71\$	1679
08	00	6E		00	2C	0076C	MOVCS	#0, (SP), #0, #8, RES_DESC	1685
			FCE8	CD		00771			
		FCE8	CD	0200	8F	B0	MOVW	#512, RES_DESC	1686
		FCEC	CD	0130	CE	9E	MOVAB	RES_BUF, RES_DESC+4	1687
				7E	D4	00782	CLRL	-(SP)	1694
			98	AD	9F	00784	PUSHAB	ATR	
		FCE8	CD	9F	00787		PUSHAB	RES_DESC	
		18	AE	9F	00788		PUSHAB	RES_LEN	
			7E	D4	0078E		CLRL	-(SP)	
			90	AD	9F	00790	PUSHAB	DESC	
			7E	7C	00793		CLRQ	-(SP)	
		FCF0	CD	9F	00795		PUSHAB	IOSB	
			36	DD	00799		PUSHL	#54	
			59	DD	0079B		PUSHL	R9	
			7E	D4	0079D		CLRL	-(SP)	
	00000000G	00	0C	FB	0079F		CALLS	#12, SYSS\$QIOW	
		58	50	D0	007A6		MOVL	R0, STATUS	
		08	58	E9	007A9		BLBC	STATUS, 69\$	1695
		58	FCF0	CD	3C	007AC	MOVZWL	IOSB, STATUS	
		13	58	EB	007B1		BLBS	STATUS, 70\$	1696
			0500	8F	BB	007B4	PUSHR	#*M<R8,R10>	1597
			00000000G	8F	DD	007B8	PUSHL	#SETS WRITEERR	
	00000000V	EF	03	FB	007BE		CALLS	#3, FILE_ERROR	
			18	11	007C5		BRB	71\$	
13	01	AB	04	E1	007C7		BBC	#4, SETFILES\$FLAGS+1, 71\$	1699
			018C	CB	9F	007CC	PUSHAB	CONF_DESC	1700
			01	DD	007D0		PUSHL	#1	
			00000000G	8F	DD	007D2	PUSHL	#SETS MODIFIED	
	00000000G	00	03	FB	007D8		CALLS	#3, LIB\$SIGNAL	
			7E	7C	007DF		CLRQ	-(SP)	1710
			7E	7C	007E1		CLRQ	-(SP)	
			7E	D4	007E3		CLRL	-(SP)	
			90	AD	9F	007E5	PUSHAB	DESC	
			7E	7C	007E8		CLRQ	-(SP)	
		FCF0	CD	9F	007EA		PUSHAB	IOSB	
			34	DD	007EE		PUSHL	#52	
			59	DD	007F0		PUSHL	R9	
			7E	D4	007F2		CLRL	-(SP)	
	00000000G	00	0C	FB	007F4		CALLS	#12, SYSS\$QIOW	
08	02	AB	05	E0	007FB		BBS	#5, SETFILES\$FLAGS+2, 73\$	1717
03	02	AB	04	E0	00800		BBS	#4, SETFILES\$FLAGS+2, 73\$	
			0385	31	00805		BRW	98\$	
		FF5A	2A	A7	D0	00808	MOVL	42(R7), FIB+10	1725
		FF5E	2E	A7	D0	0080E	MOVW	46(R7), FIB+14	1727
03	02	AB	05	E0	00814		BBS	#5, SETFILES\$FLAGS+2, 74\$	1732
			00FC	31	00819		BRW	83\$	
			34	A7	E8	0081C	BLBS	52(R7), 75\$	1739
15	34	A7	03	E0	00820		BBS	#3, 52(R7), 75\$	1740
			0077120A	8F	DD	00825	PUSHL	#7803402	1741
			018C	CB	9F	0082B	PUSHAB	CONF_DESC	
				01	DD	0082F	PUSHL	#1	

			00000000G	8F	DD	00831		PUSHL	#SETS_REMERR		
				034C	31	00837		BRW	97\$		
59	5D		03	AB	E8	0083A	75\$:	BLBS	SETFILES\$FLAGS+3, 79\$		1752
	6B			03	E1	0083E		BBC	#3, SETFILES\$FLAGS, 79\$		1753
	6E		018C	CB	9E	00842		MOVAB	CONF_DESC, (SP)		1758
				5E	DD	00847		PUSHL	SP		
			00000000'	EF	9F	00849		PUSHAB	P.ADW		1757
	00000000G		00	02	FB	0084F		CALLS	#2, LIB\$CONFIRM_ACT		
			58	50	DD	00856		MOVL	R0, STATUS		
			3F	58	E8	00859		BLBS	STATUS, 79\$		1759
	00000000G		8F	58	D1	0085C		CMPL	STATUS, #LIB\$_QUIPRO		1762
				03	12	00863		BNEQ	76\$		
				0285	31	00865		BRW	89\$		
	00000000G		8F	58	D1	00868	76\$:	CMPL	STATUS, #LIB\$_QUICONACT		1764
				09	12	0086F		BNEQ	77\$		
			03	AB	01	88	00871	BISB2	#1, SETFILES\$FLAGS+3		1765
				58	01	DD	00875	MOVL	#1, STATUS		
					1E	11	00878	BRB	78\$		
	00000000G		8F	58	D1	0087A	77\$:	CMPL	STATUS, #LIB\$_NEGANS		1766
				15	13	00881		BEQL	78\$		
				58	DD	00883		PUSHL	STATUS		1767
				018C	CB	9F	00885	PUSHAB	CONF_DESC		
					01	DD	00889	PUSHL	#1		
			00000000G	8F	DD	0088B		PUSHL	#SETS_WRITEERR		
				04	FB	00891		CALLS	#4, LIB\$SIGNAL		
				58	E9	00898	78\$:	BLBC	STATUS, 82\$		1769
				FF54	CD	D4	00898	79\$:	CLRL	FIB+4	1775
				FF58	CD	B4	0089F		CLRW	FIB+8	1777
				50	3B	A7	9A	008A3	MOVZBL	59(R7), R0	1784
				51	3C	A7	9A	008A7	MOVZBL	60(R7), R1	
				50		51	C0	008AB	ADDL2	R1, R0	
				52	3D	A7	9A	008AE	MOVZBL	61(R7), R2	1785
0138	CB			50		52	C1	008B2	ADDL3	R2, R0, FILE_NAME	
			013C	CB	4C	A7	DD	008B8	MOVL	76(R7), FILE_NAME+4	1786
					7E	7C	008BE	CLRQ	-(SP)		1795
					7E	7C	008C0	CLRQ	-(SP)		
				0138	CB	9F	008C2	PUSHAB	FILE_NAME		
				90	AD	9F	008C6	PUSHAB	DESC		
					7E	7C	008C9	CLRQ	-(SP)		
				FCF0	CD	9F	008CB	PUSHAB	IOSB		
					35	DD	008CF	PUSHL	#53		
				7E	2C	AE	3C	008D1	MOVZWL	CHANNEL, -(SP)	
					7E	D4	008D5	CLRL	-(SP)		
	00000000G		00	0C	FB	008D7		CALLS	#12, SYSSQIOW		
				58	50	DD	008DE	MOVL	R0, STATUS		
				08	58	E9	008E1	BLBC	STATUS, 80\$		1796
				58	FCF0	CD	3C	008E4	MOVZWL	IOSB, STATUS	
				11	58	E8	008E9	BLBS	STATUS, 81\$		1797
					58	DD	008EC	80\$:	PUSHL	STATUS	1801
				0138	CB	9F	008EE	PUSHAB	FILE_NAME		1798
					01	DD	008F2	PUSHL	#1		
			00000000G	8F	DD	008F4		PUSHL	#SETS_WRITEERR		
				0289	31	008FA		BRW	97\$		
13	01	AB		04	E1	008FD	81\$:	BBC	#4, SETFILES\$FLAGS+1, 82\$		1803
				018C	CB	9F	00902	PUSHAB	CONF_DESC		1804
					01	DD	00906	PUSHL	#1		
			00000000G	8F	DD	00908		PUSHL	#SETS_REMOVED		

0050	8F	00	00000000G	00	03	FB	0090E	CALLS	#3, LIBSSIGNAL	1750	
					0275	31	00915	BRW	98\$	1827	
					00	2C	00918	MOVCS	#0, (SP), #0, #80, \$SRMS_PTR		
					02E0	CE	0091F				
			02E0	CE	5003	8F	80	00922	MOVW	#20483, \$SRMS_PTR	
			02F6	CE		02	90	00929	MOVB	#2, \$SRMS_PTR+22	
			02FF	CE		02	90	0092E	MOVB	#2, \$SRMS_PTR+31	
			0308	CE	0280	CE	9E	00933	MOVAB	NEW_NAM, \$SRMS_PTR+40	
			030C	CE	013C	CB	00	0093A	MOVL	FILE_NAME+4, \$SRMS_PTR+44	
0060	8F	00	0314	CE	0138	CB	90	00941	MOVB	FILE_NAME, \$SRMS_PTR+52	
					00	2C	00948	MOVCS	#0, (SP), #0, #96, \$SRMS_PTR	1831	
					0280	CE	0094F				
			0280	CE	6002	8F	80	00952	MOVW	#24578, \$SRMS_PTR	
			028A	CE		01	8E	00959	MNEGB	#1, \$SRMS_PTR+10	
			028C	CE	0118	CE	9E	0095E	MOVAB	NEW_NAM_EXP, \$SRMS_PTR+12	
			0290	CE		57	00	00965	MOVL	R7, \$SRMS_PTR+16	
		10	34	A7		03	E1	0096A	BBC	#3, 52(R7), 84\$	1836
			0310	CE	00000000'	EF	9E	0096F	MOVAB	P.ADY, NEW_FAB+48	1839
			0315	CE		02	90	00978	MOVB	#2, NEW_FAB+53	1840
						08	11	0097D	BRB	85\$	1836
					0310	CE	D4	0097F	CLRL	NEW_FAB+48	1844
					0315	CE	94	00983	CLRB	NEW_FAB+53	1845
					02E0	CE	9F	00987	PUSHAB	NEW_FAB	1851
			00000000G	00	01	FB	0098B	CALLS	#1, \$SYSPARSE		
					58	50	00	00992	MOVL	R0, STATUS	
0220	CE	0280	CE	0060	8F	28	00995	MOVCS	#96, NEW_NAM, NEW_NAM2	1852	
				02E0	CE	9F	0099F	PUSHAB	NEW_FAB	1853	
		F62C	CF		01	FB	009A3	CALLS	#1, \$PARSE_NULL_STRING		
			1C		58	E8	009A8	BLBS	STATUS, 86\$	1854	
					58	DD	009AB	PUSHL	STATUS	1861	
					0138	CB	9F	009AD	PUSHAB	FILE_NAME	1857
					018C	CB	9F	009B1	PUSHAB	CONF_DESC	
						02	DD	009B5	PUSHL	#2	
			00000000G	00	8F	DD	009B7	PUSHL	#SETS\$ ENTERR		
					05	FB	009BD	CALLS	#5, LIB\$STOP		
0050	8F	00			0239	31	009C4	BRW	102\$	1862	
					00	2C	009C7	MOVCS	#0, (SP), #0, #80, \$SRMS_PTR	1872	
					02E0	CE	009CE				
			02E0	CE	5003	8F	80	009D1	MOVW	#20483, \$SRMS_PTR	
			02E4	CE	20000000	8F	00	009D8	MOVL	#536870912, \$SRMS_PTR+4	
			02F6	CE		02	90	009E1	MOVB	#2, \$SRMS_PTR+22	
			02FF	CE		02	90	009E6	MOVB	#2, \$SRMS_PTR+31	
			0308	CE	0280	CE	9E	009EB	MOVAB	NEW_NAM, \$SRMS_PTR+40	
			030C	CE	022C	CE	00	009F2	MOVL	NEW_NAM2+12, \$SRMS_PTR+44	
			0314	CE	022B	CE	90	009F9	MOVB	NEW_NAM2+11, \$SRMS_PTR+52	
0060	8F	00			00	2C	00A00	MOVCS	#0, (SP), #0, #96, \$SRMS_PTR	1876	
					0280	CE	00A07				
			0280	CE	6002	8F	80	00A0A	MOVW	#24578, \$SRMS_PTR	
			028A	CE		01	8E	00A11	MNEGB	#1, \$SRMS_PTR+10	
			028C	CE	18	AE	9E	00A16	MOVAB	NEW_NAM_EXP2, \$SRMS_PTR+12	
			0290	CE		57	00	00A1C	MOVL	R7, \$SRMS_PTR+16	
					02E0	CE	9F	00A21	PUSHAB	NEW_FAB	1878
			00000000G	00	01	FB	00A25	CALLS	#1, \$SYSPARSE		
					58	50	00	00A2C	MOVL	R0, STATUS	
0220	CE	0280	CE	0060	8F	28	00A2F	MOVCS	#96, NEW_NAM, NEW_NAM2	1879	
				02E0	CE	9F	00A39	PUSHAB	NEW_FAB	1880	
		F592	CF		01	FB	00A3D	CALLS	#1, \$PARSE_NULL_STRING		

		1C		58	E8	00A42	BLBS	STATUS, 87\$	1881
				58	DD	00A45	PUSHL	STATUS	1888
			0138	CB	9F	00A47	PUSHAB	FILE_NAME	1884
			018C	CB	9F	00A4B	PUSHAB	CONF_DESC	
				02	DD	00A4F	PUSHL	#2	
		00000000G	00000000G	8F	DD	00A51	PUSHL	#SETS ENTERR	
				05	FB	00A57	CALLS	#5, LIB\$SIGNAL	
				019F	31	00A5E	BRW	102\$	1889
	FCEB	CD	022B	CE	9A	00A61	MOVZBL	NEW_NAM2+11, NEW_NAME	1895
	FCEC	CD	022C	CE	DD	00A68	MOVL	NEW_NAM2+12, NEW_NAME+4	1896
		50	025B	CE	9A	00A6F	MOVZBL	NEW_NAM2+59, R0	1902
		51	025C	CE	9A	00A74	MOVZBL	NEW_NAM2+60, R1	
		50		51	CO	00A79	ADDL2	R1, R0	
		52	025D	CE	9A	00A7C	MOVZBL	NEW_NAM2+61, R2	1903
0218	CE	50		52	A1	00A81	ADDW3	R2, R0, NEW_DESC	
	021C	CE	026C	CE	DD	00A87	MOVL	NEW_NAM2+76, NEW_DESC+4	1904
	FF5A	CD	024A	CE	DD	00A8E	MOVL	NEW_NAM2+42, FIB+10	1909
	FF5E	CD	024E	CE	BD	00A95	MOVW	NEW_NAM2+46, FIB+14	1911
		51	14	A7	9A	00A9C	MOVZBL	20(R7), R1	1918
		50	0234	CE	9A	00AA0	MOVZBL	NEW_NAM2+20, R0	1919
50		00	15	A7	51	2D	CMPCS	R1, 21(R7), #0, R0, NEW_NAM2+21	1918
			0235	CE		00AAB			
				09	13	00AAE	BEQL	88\$	
			000184C4	8F	DD	00AB0	PUSHL	#99524	1920
				009F	31	00AB6	BRW	95\$	
6A	03	AB		01	E0	00AB9	BBS	#1, SETFILES\$FLAGS+3, 93\$	1932
66	6B			03	E1	00ABE	BBC	#3, SETFILES\$FLAGS, 93\$	1933
	10	AE	018C	CB	9E	00AC2	MOVAB	CONF_DESC, ARGLIST	1939
	14	AE	FCEB	CD	9E	00AC8	MOVAB	NEW_NAME, ARGLIST+4	1940
			10	AE	9F	00ACE	PUSHAB	ARGLIST	1941
			00000000	EF	9F	00AD1	PUSHAB	P.ADZ	
		00000000G	00	02	FB	00AD7	CALLS	#2, LIB\$CONFIRM_ACT	
			58	50	DD	00ADE	MOVL	R0, STATUS	
			44	58	E8	00AE1	BLBS	STATUS, 93\$	1943
		00000000G	8F	58	D1	00AE4	CMPL	STATUS, #LIB\$_QUIPRO	1946
				08	12	00AEB	BNEQ	90\$	
	02	AB	40	8F	88	00AED	BISB2	#64, SETFILES\$FLAGS+2	1947
				010B	31	00AF2	BRW	102\$	
		00000000G	8F	58	D1	00AF5	CMPL	STATUS, #LIB\$_QUICONACT	1948
				09	12	00AFC	BNEQ	91\$	
	03	AB		02	88	00AFE	BISB2	#2, SETFILES\$FLAGS+3	1949
		58		01	DD	00B02	MOVL	#1, STATUS	
				1E	11	00B05	BRB	92\$	
		00000000G	8F	58	D1	00B07	CMPL	STATUS, #LIB\$_NEGANS	1950
				15	13	00B0E	BEQL	92\$	
				58	DD	00B10	PUSHL	STATUS	1951
			018C	CB	9F	00B12	PUSHAB	CONF_DESC	
				01	DD	00B16	PUSHL	#1	
			00000000G	8F	DD	00B18	PUSHL	#SETS WRITEERR	
		00000000G	00	04	FB	00B1E	CALLS	#4, LIB\$SIGNAL	
			65	58	E9	00B25	BLBC	STATUS, 98\$	1953
				7E	7C	00B28	CLRQ	-(SP)	1966
				7E	7C	00B2A	CLRQ	-(SP)	
			022B	CE	9F	00B2C	PUSHAB	NEW_DESC	
			90	AD	9F	00B30	PUSHAB	DESC	
				7E	7C	00B33	CLRQ	-(SP)	
			FCF0	CD	9F	00B35	PUSHAB	IOSB	

			33	DD	00B39	PUSHL	#51		
	7E	2C	AE	3C	00B3B	MOVZWL	CHANNEL, -(SP)		
			7E	D4	00B3F	CLRL	-(SP)		
00000000G	00		0C	FB	00B41	CALLS	#12, SYSSQIOW		
	58		50	DC	00B48	MOVL	R0, STATUS		
	08		58	E9	00B4B	BLBC	STATUS, 94\$		1967
	58	FCF0	CD	3C	00B4E	MOVZWL	IOSB, STATUS		
	1B		58	E8	00B53	BLBS	STATUS, 96\$		1968
			58	DD	00B56	PUSHL	STATUS		1973
		FCEB	CD	9F	00B58	PUSHAB	NEW_NAME		1969
		018C	CB	9F	00B5C	PUSHAB	CONF_DESC		
			02	DD	00B60	PUSHL	#2		
00000000G	00	00000000G	8F	DD	00B62	PUSHL	#SETS ENTERR		
			05	FB	00B68	CALLS	#5, LIBSSIGNAL		
17	01	AB	1C	11	00B6F	BRB	98\$		
			04	E1	00B71	BBC	#4, SETFILES\$FLAGS+1, 98\$		1975
		FCEB	CD	9F	00B76	PUSHAB	NEW_NAME		1976
		018C	CB	9F	00B7A	PUSHAB	CONF_DESC		
			02	DD	00B7E	PUSHL	#2		
00000000G	00	00000000G	8F	DD	00B80	PUSHL	#SETS ENTERED		
24	02	AB	04	FB	00B86	CALLS	#4, LIBSSIGNAL		
			02	E1	00B8D	BBC	#2, SETFILES\$FLAGS+2, 99\$		1983
			5A	DD	00B92	PUSHL	R10		1985
00000000V	EF		01	FB	00B94	CALLS	#1, UNLOCK_ACTION		
	58		50	DO	00B9B	MOVL	R0, STATUS		
	15		58	EB	00B9E	BLBS	STATUS, 99\$		
		018C	58	DD	00BA1	PUSHL	STATUS		1987
			CB	9F	00BA3	PUSHAB	CONF_DESC		
			01	DD	00BA7	PUSHL	#1		
00000000G	00	00000000G	8F	DD	00BA9	PUSHL	#SETS UNLOCKERR		
	24	02	04	FB	00BAF	CALLS	#4, LIBSSIGNAL		
			AB	E9	00BB6	BLBC	SETFILES\$FLAGS+2, 100\$		1992
			5A	DD	00BBA	PUSHL	R10		1994
00000000V	EF		01	FB	00BBC	CALLS	#1, SETPRO_ACTION		
	58		50	DO	00BC3	MOVL	R0, STATUS		
	15		58	EB	00BC6	BLBS	STATUS, 100\$		
		018C	58	DD	00BC9	PUSHL	STATUS		1996
			CB	9F	00BCB	PUSHAB	CONF_DESC		
			01	DD	00BCF	PUSHL	#1		
00000000G	00	00000000G	8F	DD	00BD1	PUSHL	#SETS PROERR		
	7E	04	04	FB	00BD7	CALLS	#4, LIBSSIGNAL		
00000000G	00		AE	3C	00BDE	MOVZWL	CHANNEL, -(SP)		2002
	58		01	FB	00BE2	CALLS	#1, SYSSDASSGN		
	11		50	DO	00BE9	MOVL	R0, STATUS		
		0500	58	EB	00BEC	BLBS	STATUS, 102\$		
			8F	BB	00BEF	PUSHR	#*M<R8,R10>		2003
00000000V	EF	00000000G	8F	DD	00BF3	PUSHL	#SETS CLOSEERR		
	50		03	FB	00BF9	CALLS	#3, FILE_ERROR		
			01	DO	00C00	MOVL	#1, R0		2005
			04	00C03		RET			2006

; Routine Size: 3076 bytes, Routine Base: \$CODE\$ + 0693

```

: 2016      2007 1 GLOBAL ROUTINE file_error (status1,status2,fab) =
: 2017      2008 1 |**
: 2018      2009 1 |---
: 2019      2010 1 | This routine is called if an error occured while trying to access
: 2020      2011 1 | a file. The kind of error is signalled, along with the file name.
: 2021      2012 1 |---
: 2022      2013 1 |--
: 2023      2014 2 BEGIN
: 2024      2015 2
: 2025      2016 2 MAP
: 2026      2017 2     fab : REF $BLOCK;           ! Define the fab
: 2027      2018 2
: 2028      2019 2 BIND
: 2029      2020 2     status = status2 : $BLOCK,
: 2030      2021 2     nam = .fab[fab$_nam] : $BLOCK;   ! Define the name block
: 2031      2022 2
: 2032      2023 2
: 2033      2024 2 LOCAL
: 2034      2025 2     desc : VECTOR[2];           ! A temporary descriptor
: 2035      2026 2
: 2036      2027 2 |
: 2037      2028 2 | Check to see if there's a name in the resultant string field.
: 2038      2029 2 | If there is, use it.
: 2039      2030 2 |
: 2040      2031 2 IF .nam[nam$_rsl] NEQ 0
: 2041      2032 2 THEN
: 2042      2033 2     BEGIN
: 2043      2034 2     desc[0] = .nam[nam$_rsl];
: 2044      2035 2     desc[1] = .nam[nam$_rsa];
: 2045      2036 2     END
: 2046      2037 2
: 2047      2038 2 |
: 2048      2039 2 | If no resultant name, try the expanded name
: 2049      2040 2 |
: 2050      2041 2 ELSE IF .nam[nam$_esl] NEQ 0
: 2051      2042 2 THEN
: 2052      2043 2     BEGIN
: 2053      2044 2     desc[0] = .nam[nam$_esl];
: 2054      2045 2     desc[1] = .nam[nam$_esa];
: 2055      2046 2     END
: 2056      2047 2
: 2057      2048 2 |
: 2058      2049 2 | If no expanded name, use the original name in the fab
: 2059      2050 2 |
: 2060      2051 2 ELSE
: 2061      2052 2     BEGIN
: 2062      2053 2     desc[0] = .fab[fab$_fns];
: 2063      2054 2     desc[1] = .fab[fab$_fna];
: 2064      2055 2     END;
: 2065      2056 2
: 2066      2057 2 |
: 2067      2058 2 | Signal the error
: 2068      2059 2 |
: 2069      2060 2 SIGNAL(.status1,           ! Report error
: 2070      2061 2     1,                   ! One FAO argument
: 2071      2062 2     desc,                 ! Which is the file name
: 2072      2063 2     .status);           ! Plus original error

```

: 2073
: 2074
2064 2 RETURN true;
2065 1 END;

			0000	00000	.ENTRY	FILE ERROR, Save nothing	: 2007
	5E		08	C2 00002	SUBL2	#8, SP	...
	51	0C	AC	D0 00005	MOVL	FAB, R1	: 2021
	50	28	A1	D0 00009	MOVL	40(R1), R0	...
		03	A0	95 0000D	TSTB	3(R0)	: 2031
			0B	13 00010	BEQL	1\$	...
	6E	03	A0	9A 00012	MOVZBL	3(R0), DESC	: 2034
04	AE	04	A0	D0 00016	MOVL	4(R0), DESC+4	: 2035
			19	11 0001B	BRB	3\$	: 2031
		0B	A0	95 0001D	TSTB	11(R0)	: 2041
			0B	13 00020	BEQL	2\$	...
	6E	0B	A0	9A 00022	MOVZBL	11(R0), DESC	: 2044
04	AE	0C	A0	D0 00026	MOVL	12(R0), DESC+4	: 2045
			09	11 0002B	BRB	3\$	: 2041
	6E	34	A1	9A 0002D	MOVZBL	52(R1), DESC	: 2053
04	AE	2C	A1	D0 00031	MOVL	44(R1), DESC+4	: 2054
		0B	AC	DD 00036	PUSHL	STATUS	: 2063
		04	AE	9F 00039	PUSHAB	DESC	: 2060
			01	DD 0003C	PUSHL	#1	...
		04	AC	DD 0003E	PUSHL	STATUS1	...
	00000000G	00	04	FB 00041	CALLS	#4, LIB\$SIGNAL	...
		50	01	D0 00048	MOVL	#1, R0	: 2064
			04	0004B	RET		: 2065

: Routine Size: 76 bytes. Routine Base: \$CODE\$ + 1297

: 2075
2066 1

```

2077 1 GLOBAL ROUTINE check_privilege : NOVALUE =
2078 1 +-+
2079 1 |
2080 1 | This routine checks that the image has the correct privilege.
2081 1 |
2082 1 | ---
2083 2 BEGIN
2084 2 |
2085 2 LOCAL
2086 2     status,
2087 2     oldpriv : $BBLOCK[8];          ! Permanent privileges go here
2088 2 |
2089 2 OWN
2090 2     newpriv : $BBLOCK[8]          ! Mask to disable SYSPRV
2091 2     PRESET([priv$v_syspriv]=true);
2092 2 |
2093 2 |
2094 2 | The image SET is installed with SYSPRV privilege, but we don't want the user
2095 2 | to have that much power unless s/he already has it. So, first check to
2096 2 | see if the process has the privilege, and if not, then remove it for the
2097 2 | duration of this image.
2098 2 |
2099 P 2099 IF NOT (status = $SETPRV(ENBFLG = 1,          ! Enable
2100 P 2099     PRVADR = 0,          ! No new privileges
2101 P 2099     PRMFLG = 1,          ! Permanent privs
2102     PRVPRV = oldpriv)) ! Store current ones here
2103 2 THEN SIGNAL_STOP(.status);
2104 2 |
2105 2 | Check to see if privilege there. If not, then remove it from current
2106 2 | privileges.
2107 2 |
2108 2 IF NOT .oldpriv[priv$v_syspriv] ! If SYSPRV not permanent
2109 2 THEN
2110 3     BEGIN
2111 P 2109     IF NOT (status = $SETPRV(ENBFLG = 0,          ! Disable
2112 P 2109     PRVADR = newpriv, ! this privilege
2113 P 2109     PRMFLG = 0,          ! for the duration of this image
2114     PRVPRV = 0))
2115 3     THEN SIGNAL_STOP(.status)
2116 2     END;
2117 2 |
2118 2 RETURN;
2119 1 END;

```

```

.PSECT $OWNS,NOEXE,2
00# 0002A NEWPRIV: .BLKB 2
10 0002C .BYTE 0[3]
0002F .BYTE 16
00030 .BLKB 4
.PSECT $CODE$,NOWRT,2

```

			001C 00000		.ENTRY	CHECK PRIVILEGE, Save R2,R3,R4		2067
	54	00000000G	00 9E 00002		MOVAB	SYSS\$SETPRV, R4		
	53	00000000G	00 9E 00009		MOVAB	LIB\$STOP, R3		
	5E		08 C2 00010		SUBL2	#8, SP		
			5E DD 00013		PUSHL	SP		2092
			01 DD 00015		PUSHL	#1		
	7E		01 7D 00017		MOVQ	#1, -(SP)		
	64		04 FB 0001A		CALLS	#4, SYSS\$SETPRV		
	52		50 D0 0001D		MOVL	R0, STATUS		
	05		52 EB 00020		BLBS	STATUS, 1\$		
			52 DD 00023		PUSHL	STATUS		2093
	63		01 FB 00025		CALLS	#1, LIB\$STOP		
18	03	AE	04 E0 00028	1\$:	BBS	#4, OLDPRIV+3, 2\$		2098
			7E 7C 0002D		CLRQ	-(SP)		2104
		00000000'	EF 9F 0002F		PUSHAB	NEWPRIV		
			7E D4 00035		CLRL	-(SP)		
	64		04 FB 00037		CALLS	#4, SYSS\$SETPRV		
	52		50 D0 0003A		MOVL	R0, STATUS		
	05		52 EB 0003D		BLBS	STATUS, 2\$		
			52 DD 00040		PUSHL	STATUS		2105
	63		01 FB 00042		CALLS	#1, LIB\$STOP		
			04 00045	2\$:	RET			2109

; Routine Size: 70 bytes, Routine Base: \$CODE\$ + 12E3

```

2121 1 GLOBAL ROUTINE search_error (fab) =
2122 1 1 1
2123 1 1 1
2124 1 1 1 This routine is called when lib$file_scan detects an error while
2125 1 1 1 searching for a file specified in the command line.
2126 1 1 1
2127 1 1 1 --
2128 1 1 1 BEGIN
2129 1 1 1
2130 1 1 1 MAP
2131 1 1 1 fab : REF $BLOCK; ! Define FAB format
2132 1 1 1
2133 1 1 1 BIND
2134 1 1 1 nam = .fab[fab$l_nam] : $BLOCK; ! Define NAM block
2135 1 1 1
2136 1 1 1 LOCAL
2137 1 1 1 desc : VECTOR[2]; ! A temporary descriptor
2138 1 1 1
2139 1 1 1 :
2140 1 1 1 : Check to see if there's a name in the resultant string field.
2141 1 1 1 : If there is, use it.
2142 1 1 1 :
2143 1 1 1 IF .nam[nam$b_rsl] NEQ 0
2144 1 1 1 THEN
2145 1 1 1 BEGIN
2146 1 1 1 desc[0] = .nam[nam$b_rsl];
2147 1 1 1 desc[1] = .nam[nam$l_rsa];
2148 1 1 1 END
2149 1 1 1
2150 1 1 1 :
2151 1 1 1 : If no resultant name, try the expanded name
2152 1 1 1 :
2153 1 1 1 ELSE IF .nam[nam$b_esl] NEQ 0
2154 1 1 1 THEN
2155 1 1 1 BEGIN
2156 1 1 1 desc[0] = .nam[nam$b_esl];
2157 1 1 1 desc[1] = .nam[nam$l_esa];
2158 1 1 1 END
2159 1 1 1
2160 1 1 1 :
2161 1 1 1 : If no expanded name, use the original name in the fab
2162 1 1 1 :
2163 1 1 1 ELSE
2164 1 1 1 BEGIN
2165 1 1 1 desc[0] = .fab[fab$b_fns];
2166 1 1 1 desc[1] = .fab[fab$l_fna];
2167 1 1 1 END;
2168 1 1 1
2169 1 1 1 :
2170 1 1 1 : Signal the error
2171 1 1 1 :
2172 1 1 1 SIGNAL_STOP(set$searchfail,
2173 1 1 1 1, ! One FAO argument
2174 1 1 1 desc, ! Which is the file name
2175 1 1 1 .fab[fab$l_sts], ! Show RMS error code
2176 1 1 1 .fab[fab$l_stv]); ! And secondary error code
2177 1 1 1 RETURN true;

```

			0000	00000	.ENTRY	SEARCH_ERROR, Save nothing	:	2110
	SE		08	C2 00002	SUBL2	#8, SP-	:	
	51	04	AC	D0 0C005	MOVL	FAB, R1	:	2123
	50	28	A1	D0 00009	MOVL	40(R1), R0	:	
		03	A0	95 0000D	TSTB	3(R0)	:	2132
			0B	13 00010	BEQL	1\$:	
	6E	03	A0	9A 00012	MOVZBL	3(R0), DESC	:	2135
04	AE	04	A0	D0 00016	MOVL	4(R0), DESC+4	:	2136
			19	11 00018	BRB	3\$	:	2132
		0B	A0	95 0001D	TSTB	11(R0)	:	2142
			0B	13 00020	BEQL	2\$:	
	6E	0B	A0	9A 00022	MOVZBL	11(R0), DESC	:	2145
04	AE	0C	A0	D0 00026	MOVL	12(R0), DESC+4	:	2146
			09	11 0002B	BRB	3\$	:	2142
	6E	34	A1	9A 0002D	MOVZBL	52(R1), DESC	:	2154
04	AE	2C	A1	D0 00031	MOVL	44(R1), DESC+4	:	2155
	7E	0B	A1	7D 00036	MOVQ	8(R1), -(SP)	:	2164
		0B	AE	9F 0003A	PUSHAB	DESC	:	2161
			01	DD 0003D	PUSHL	#1	:	
		0077123A	8F	DD 0003F	PUSHL	#7803450	:	
00000000G	00		05	FB 00045	CALLS	#5, LIB\$STOP	:	
	50		01	D0 0004C	MOVL	#1, R0	:	2166
			04	0004F	RET		:	2167

: Routine Size: 80 bytes, Routine Base: \$CODE\$ + 1329

```

2180 2168 1 ROUTINE unlock_action (fab) =
2181 2169 1
2182 2170 1 :----
2183 2171 1
2184 2172 1 Functional description
2185 2173 1
2186 2174 1 This routine is called from SET_ATTRIBUTES whenever
2187 2175 1 a successful file match for /LOCK occurs
2188 2176 1
2189 2177 1 Input parameters
2190 2178 1
2191 2179 1 fab = Address of block describing the file
2192 2180 1
2193 2181 1 Output parameters
2194 2182 1
2195 2183 1 None
2196 2184 1
2197 2185 1 :----
2198 2186 1
2199 2187 2 BEGIN
2200 2188 2
2201 2189 2 MAP fab: REF $BLOCK; ! Define fab block format
2202 2190 2
2203 2191 2 LOCAL status; ! Receives status
2204 2192 2
2205 2193 2
2206 2194 2 ! If /CONFIRM was set by the user then interrogate him to see if
2207 2195 2 this file is to be unlocked
2208 2196 2
2209 2197 2 IF
2210 2198 3 BEGIN
2211 2199 3 IF .setfile$flags[qual_quit_unlock]
2212 2200 3 OR NOT .setfile$flags[qual_confirm]
2213 2201 3 THEN true
2214 2202 3 ELSE
2215 2203 4 BEGIN
2216 2204 4 status = lib$confirm_act(%ASCII 'Unlock file !AS? [N] : ',
2217 2205 4 %REF(conf_desc));
2218 2206 4
2219 2207 4 IF NOT .status
2220 2208 5 THEN
2221 2209 5 BEGIN
2222 2210 6 IF .status EQL lib$ quipro
2223 2211 5 THEN (setfile$flags[qual_quit] = 1; RETURN true)
2224 2212 6 ELSE IF .status EQL lib$ quiconact
2225 2213 5 THEN (setfile$flags[qual_quit_mod] = 1; status = 1)
2226 2214 5 ELSE IF .status NEQ lib$ negans
2227 2215 4 THEN SIGNAL(set$_writeerr, 1, conf_desc, .status);
2228 2216 4 END;
2229 2217 4 .status
2230 2218 3 END
2231 2219 2 THEN
2232 2220 3 BEGIN
2233 2221 3
2234 2222 3
2235 2223 3 ! Call LIB$UNLOCK_FILE to unlock the file
2236 2224 3

```

```

2237 2225 3
2238 2226 4
2239 2227 5
2240 2228 6
2241 2229 7
2242 2230 8
2243 2231 9
2244 2232 10
2245 2233 11
2246 2234 12
2247 2235 13
2248 2236 14
2249 2237 15
2250 2238 16
2251 2239 17
2252 2240 18
2253 2241 19
2254 2242 20
2255 2243 21
2256 2244 22
2257 2245 23
2258 2246 24

```

```

IF NOT (status = lib$unlock_file(conf_desc)) ! Call unlock with file name
THEN
  RETURN(.status);

Check to see if unlock worked. SSS_WASSET indicates the file
was unlocked. SSS_WASCLR indicates the file was already unlocked
and no other error occurred

IF (.status EQL SSS_WASCLR) ! If file not locked
THEN
  SIGNAL(set$_notlocked,1,conf_desc)
ELSE
  IF .setfile$flags[qual log] ! File was unlocked
  THEN SIGNAL(set$_unlocked,1,conf_desc); ! if /LOG tell user

END;
RETURN(true); ! Both returns above
! are ok!

END;

```

```

.PSECT $SPLITS,NOWRT,NOEXE,2
53 41 21 20 65 6C 69 66 20 6B 63 6F 6C 6E 55 00458 P.AEC: .ASCII \Unlock file !AS? [N] : \<0>
00 20 3A 20 5D 4E 5B 20 3F 00467
010E0017 00470 P.AEB: .LONG 17694743
00000000 00474 .ADDRESS P.AEC

```

```

.PSECT $CODE$,NOWRT,2
001C 00000 UNLOCK_ACTION:
.WORD Save R2,R3,R4 : 2168
MOVAB LIB$SIGNAL, R4
MOVAB SETFILE$FLAGS, R3
SUBL2 #4, SP
BBS #3, SETFILE$FLAGS+3, 4$ : 2199
BBC #3, SETFILE$FLAGS, 4$ : 2200
MOVAB CONF_DESC, (SP) : 2205
PUSHL SP
PUSHAB P.AEB : 2204
CALLS #2, LIB$CONFIRM_ACT
MOVL R0, STATUS
BLBS STATUS, 4$ : 2206
CMPL STATUS, #LIB$_QUIPRO : 2209
BNEQ 1$
BISB2 #64, SETFILE$FLAGS+2 : 2210
BRB 8$
0000000G 8F 52 D1 00046 1$: CMPL STATUS, #LIB$_QUICONACT : 2211
0A 12 0004D
BNEQ 2$
02 A3 80 8F 88 0004F BISB2 #128, SETFILE$FLAGS+2 : 2212
52 01 D0 00054
MOVL #1, STATUS

```

00000000G	8F		1A	11	00057	BRB	3\$		
			52	D1	00059	2\$:	CMPL	STATUS, #LIB\$_NEGANS	2213
			11	13	00060		BEQL	3\$	
		018C	52	DD	00062		PUSHL	STATUS	2214
			C3	9F	00064		PUSHAB	CONF_DESC	
			01	DD	00068		PUSHL	#1	
		00000000G	8F	DD	0006A		PUSHL	#SET\$ WRITEERR	
	64		04	FB	00070		CALL	#4, LIB\$SIGNAL	
	3C		52	E9	00073	3\$:	BLBC	STATUS, 8\$	2216
		018C	C3	9F	00076	4\$:	PUSHAB	CONF_DESC	2226
00000000G	00		01	FB	0007A		CALLS	#1, [IB\$UNLOCK_FILE	
	52		50	DD	00081		MOVL	R0, STATUS	
	04		52	E8	00084		BLBS	STATUS, 5\$	
	50		52	DD	00087		MOVL	STATUS, R0	2228
				04	0008A		RET		
	01		52	D1	0008B	5\$:	CMPL	STATUS, #1	2236
			0E	12	0008E		BNEQ	6\$	
		018C	C3	9F	00090		PUSHAB	CONF_DESC	2238
			01	DD	00094		PUSHL	#1	
		00000000G	8F	DD	00096		PUSHL	#SET\$_NOTLOCKED	
			11	11	0009C		BRB	7\$	
OF	01	A3	04	E1	0009E	6\$:	BBC	#4, SETFILE\$FLAGS+1, 8\$	2240
		018C	C3	9F	000A3		PUSHAB	CONF_DESC	2241
			01	DD	000A7		PUSHL	#1	
		00000000G	8F	DD	000A9		PUSHL	#SET\$ UNLOCKED	
	64		03	FB	000AF	7\$:	CALLS	#3, LIB\$SIGNAL	
	50		01	DD	000B2	8\$:	MOVL	#1, R0	2243
			04	000B5			RET		2246

; Routine Size: 182 bytes, Routine Base: \$CODE\$ + 1379

```

: 2260      2247 1 ROUTINE setpro_action (fab): =
: 2261      2248 1
: 2262      2249 1 |----
: 2263      2250 1
: 2264      2251 1 | Functional description
: 2265      2252 1
: 2266      2253 1 |     This routine is called from SET_ATTRIBUTES whenever
: 2267      2254 1 |     the qualifier PROTECTION is found
: 2268      2255 1
: 2269      2256 1 | Input parameters
: 2270      2257 1
: 2271      2258 1 |     fab = Address of block describing the file
: 2272      2259 1 |     fab$l_nam = pointer to name block
: 2273      2260 1
: 2274      2261 1 | Output parameters
: 2275      2262 1
: 2276      2263 1 |     First error encountered, or TRUE is RETURNed
: 2277      2264 1
: 2278      2265 1 |----
: 2279      2266 1
: 2280      2267 2 BEGIN
: 2281      2268 2
: 2282      2269 2 MAP fab: REF $BLOCK;           : Define fab block format
: 2283      2270 2
: 2284      2271 2 LOCAL
: 2285      2272 2     p_res_mask,           : Enable-mask parameter
: 2286      2273 2     p_res_prot,           : Value-mask parameter
: 2287      2274 2     final_prot: WORD,       : Receives final protection
: 2288      2275 2     desc:      VECTOR[2],   : Temporary string descriptor
: 2289      2276 2     status;           : Receives status
: 2290      2277 2
: 2291      2278 2
: 2292      2279 2 |
: 2293      2280 2 | If /CONFIRM was set by the user then interrogate him to see if
: 2294      2281 2 | this file is to have its protection changed.
: 2295      2282 2
: 2296      2283 2 IF
: 2297      2284 3 BEGIN
: 2298      2285 3     IF .setfile$flags[qual_quit_protect]
: 2299      2286 3     OR NOT .setfile$flags[qual_confirm]
: 2300      2287 3     THEN true
: 2301      2288 3     ELSE
: 2302      2289 4     BEGIN
: 2303      2290 4     status = lib$confirm_act(%ASCII 'Change protection of file !AS? [N] : ',
: 2304      2291 4     %REF(conf_desc));
: 2305      2292 4     IF NOT .status
: 2306      2293 4     THEN
: 2307      2294 5     BEGIN
: 2308      2295 5     IF .status EQL lib$ quipro
: 2309      2296 6     THEN (setfile$flags[qual_quit] = 1; RETURN true)
: 2310      2297 5     ELSE IF .status EQL lib$ quiconact
: 2311      2298 6     THEN (setfile$flags[qual_quit_mod] = 1; status = 1)
: 2312      2299 5     ELSE IF .status NEQ lib$ negans
: 2313      2300 5     THEN SIGNAL(set$_writeerr, 1, conf_desc, .status);
: 2314      2301 4     END;
: 2315      2302 4     .status
: 2316      2303 4     END

```

```

: 2317      2304 3      END
: 2318      2305 3      THEN
: 2319      2306 3      BEGIN
: 2320      2307 3
: 2321      2308 3      ! Compute the parameters for lib$set_file_prot. If not protection
: 2322      2309 3      ! value was specified set enable-mask and value-mask to zero to
: 2323      2310 3      ! cause protection to be set to the process default.
: 2324      2311 3
: 2325      2312 3      p_res_mask = global_mask;
: 2326      2313 3      p_res_prot = global_prot;
: 2327      2314 3
: 2328      2315 3      IF .global_mask EQL 0      ! If not protection values specified
: 2329      2316 3      THEN p_res_mask = p_res_prot = 0;      ! pass null parameters
: 2330      2317 3
: 2331      2318 3
: 2332      2319 3      !
: 2333      2320 3      ! Call lib$set_file_prot to set file protection
: 2334      2321 3      !
: 2335      2322 3
: 2336      2323 4      IF NOT (status = lib$set_file_prot (      ! Call library routine with
: 2337      2324 4          conf_desc,      ! - file name
: 2338      2325 4          .p_res_mask,      ! - result mask
: 2339      2326 4          .p_res_prot,      ! - result protection
: 2340      2327 4          final_prot))      ! - final protection returned
: 2341      2328 4          ! by lib$set_file_prot
: 2342      2329 3      THEN
: 2343      2330 4          BEGIN
: 2344      2331 4          SIGNAL (      ! Tell the user of error
: 2345      2332 4              set$_pronotchg,      ! - "Not changed" error message
: 2346      2333 4              1,      ! - 1 FA0 argument
: 2347      2334 4              conf_desc,      ! - descriptor of filename
: 2348      2335 4              .status);      ! - original error
: 2349      2336 4          return (.status);      ! Return to the caller
: 2350      2337 4          END;
: 2351      2338 3
: 2352      2339 3
: 2353      2340 3      !
: 2354      2341 3      ! If /LOG was set then do it
: 2355      2342 3      !
: 2356      2343 3
: 2357      2344 4      IF (.setfile$flags[qual_log])      ! If logging requested
: 2358      2345 3      THEN prot_log_results (.fab,.final_prot);      ! then call the logger
: 2359      2346 3
: 2360      2347 2      END;
: 2361      2348 2      RETURN (true);
: 2362      2349 2
: 2363      2350 1      END;

```

.PSECT \$SPLITS,NOWRT,NOEXE,2

```

69 74 63 65 74 6F 72 70 20 65 67 6E 61 68 43 00478 P.AEE: .ASCII \Change protection of file !AS? [N] : \<0> :
3F 53 41 21 20 65 6C 69 66 20 66 6F 20 6E 6F 00487
00 2^ 3A 20 5D 4E 5B 20 00496
00 00 0049E
010E0025 004A0 P.AED: .ASCII <0><0>
.LONG 17694757

```


SETFILE
V04-000

D 9
16-Sep-1984 00:53:51
14-Sep-1984 12:09:07

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETFILE.B32;1

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(14)

00000000V	EF	04	AC	DD	000BB	PUSHL	FAB	
	50		02	FB	000BE	CALLS	#2,	PROT_LOG_RESULTS
			01	DO	000C5	MOVL	#1,	R0
			04	000C8	78:	RET		

:
:
: 2348
: 2350

; Routine Size: 201 bytes, Routine Base: \$CODE\$ + 142F

```
2365 2351 1 ROUTINE prot_log_results (fab,final_prot): =
2366 2352 1
2367 2353 1 ----
2368 2354 1
2369 2355 1 Functional description
2370 2356 1
2371 2357 1 This routine is called from SETPRO_ACTION whenever
2372 2358 1 logging for /PROTECTION is requested
2373 2359 1
2374 2360 1 Input parameters
2375 2361 1
2376 2362 1 fab = Address of block describing the file
2377 2363 1 fab$l_nam = pointer to name block
2378 2364 1
2379 2365 1 Output parameters
2380 2366 1
2381 2367 1 First error encountered, or TRUE is RETURNED
2382 2368 1
2383 2369 1 ----
2384 2370 1
2385 2371 2 BEGIN
2386 2372 2
2387 2373 2 LITERAL
2388 2374 2 pbufsize = 32; ! Buffer for generating string
2389 2375 2
2390 2376 2 MAP fab: REF $BBLOCK; ! Define fab block format
2391 2377 2
2392 2378 2 BIND nam = .fab[fab$l_nam]: $BBLOCK; ! Define name block
2393 2379 2
2394 2380 2 LOCAL
2395 2381 2 status:, ! Recieves status
2396 2382 2 pbuf: VECTOR[pbufsize,BYTE], ! Place for protection string
2397 2383 2 pdesc: VECTOR[2], ! Temporary string descriptor
2398 2384 2 desc: VECTOR[2], ! Temporary string descriptor
2399 2385 2 prot_table: VECTOR[4]; ! Protection string table
2400 2386 2
2401 2387 2
2402 2388 2
2403 2389 2 Now build the resultant protection string from the value passed
2404 2390 2 in the call.
2405 2391 2
2406 2392 2
2407 2393 2 expand_prot( ! Call sub with
2408 2394 2 prot_table, ! -place for the result
2409 2395 2 .final_prot); ! -final protection value
2410 2396 2
2411 2397 2 pdesc[0] = pbufsize; ! Initialize descriptor size
2412 2398 2 pdesc[1] = pbuf; ! Initialize descriptor address
2413 2399 2
2414 2400 2 IF NOT (status =
P 2401 2 $FAOL ! Call system service with
2416 P 2402 (CTRSTR = ADDRDESC ('S:!AS,O:!AS,G:!AS,W:!AS'), ! -FAO string
2417 P 2403 OUTLEN = pdesc[0], ! -place for resultant length
2418 P 2404 OUTBUF = pdesc, ! -output buffer descriptor
2419 2405 PRMLST = prot_table) ! -address of list of args
2420 2406 ) THEN BEGIN
2421 2407 SIGNAL (.status); ! Oops, tell the user
```

```

: 2422          2408 3          return (.status);
: 2423          2409          END;
: 2424          2410          SIGNAL      (set$_protected,
: 2425          2411          2,          : Inform user with
: 2426          2412          conf_desc,  : -two FAO arguments
: 2427          2413          pdesc);    : -file name
: 2428          2414          : -new protection
: 2429          2415          RETURN (true);
: 2430          2416          END;
: 2431          2417
: 2432          2418

```

```

                .PSECT $SPLITS,NOWRT,NOEXE,2
21 3A 47 2C 53 41 21 3A 4F 2C 53 41 21 3A 53 004A8 P.AEG: .ASCII \S:!AS,O:!AS,G:!AS,W:!AS\<0>
00 53 41 21 3A 57 2C 53 41 004B7
                00000017 004C0 P.AEF: .LONG 23
                00000000' 004C4 .ADDRESS P.AEG
                .EXTRN SYSS$FAOL
                .PSECT $CODE$,NOWRT,2
                000C 00000 PROT_LOG_RESULTS:
                .WORD Save R2,R3
                MOVAB LIB$SIGNAL, R3
                MOVAB -64(SP), SP
                PUSHL FINAL_PROT
                PUSHAB PROT_TABLE
                CALLS #2, EXPAND_PROT
                MOVL #32, PDESC
                MOVAB PBUF, PDESC+4
                PUSHL SP
                PUSHAB PDESC
                PUSHAB PDESC
                PUSHAB P.AEF
                CALLS #4, SYSS$FAOL
                MOVL R0, STATUS
                BLBS STATUS, 1$
                PUSHL STATUS
                CALLS #1, LIB$SIGNAL
                MOVL STATUS, R0
                RET
                1$: PUSHAB PDESC
                PUSHAB CONF_DESC
                PUSHL #2
                PUSHL #SET$_PROTECTED
                CALLS #4, LIB$SIGNAL
                MOVL #1, R0
                RET
                : 2351
                : 2395
                : 2393
                : 2397
                : 2398
                : 2405
                : 2407
                : 2408
                : 2411
                : 2416
                : 2418

```

: Routine Size: 95 bytes, Routine Base: \$CODE\$ + 14F8

```
2434 1 ROUTINE expand_prot (table, protection): =
2435 1
2436 1 ----
2437 1
2438 1 Functional description
2439 1
2440 1 This routine, called from PROT_LOG_RESULTS, fills
2441 1 a given VECTOR with the addresses of strings
2442 1 corresponding to a given protection word.
2443 1
2444 1 Input parameters
2445 1
2446 1 table = Address of the table to be filled in.
2447 1 protection = Protection word.
2448 1
2449 1 Output parameters
2450 1
2451 1 table has been filled in with the addresses of descriptors
2452 1 of strings describing each type of user (SYS,OWN,GRP,WORLD).
2453 1
2454 1 ----
2455 1
2456 2 BEGIN
2457 2
2458 2 BIND
2459 2 prot_table = .table: VECTOR[4]; ! Table of addresses
2460 2
2461 2 OWN
2462 2 prot_values: VECTOR[16] INITIAL( ! Protection descriptions
2463 2 ADDRDESC('RWED'),
2464 2 ADDRDESC('WED'),
2465 2 ADDRDESC('RED'),
2466 2 ADDRDESC('ED'),
2467 2 ADDRDESC('RWD'),
2468 2 ADDRDESC('WD'),
2469 2 ADDRDESC('RD'),
2470 2 ADDRDESC('D'),
2471 2 ADDRDESC('RWE'),
2472 2 ADDRDESC('WE'),
2473 2 ADDRDESC('RE'),
2474 2 ADDRDESC('E'),
2475 2 ADDRDESC('RW'),
2476 2 ADDRDESC('W'),
2477 2 ADDRDESC('R'),
2478 2 ADDRDESC(''));
2479 2
2480 2 INCR index FROM 0 TO 3 DO
2481 2 prot_table[index] = .prot_values [protection<.index*4,4>];
2482 2
2483 2 RETURN (true); ! Always return true
2484 2
2485 1 END;
```

```

44 45 57 52 004C8 P.AEI: .ASCII \RWED\
      00000004 004CC P.AEH: .LONG 4
      00000000 004D0 .ADDRESS P.AEI
00 44 45 57 004D4 P.AEK: .ASCII \WED\<0>
      00000003 004D8 P.AEJ: .LONG 3
      00000000 004DC .ADDRESS P.AEK
00 44 45 52 004E0 P.AEM: .ASCII \RED\<0>
      00000003 004E4 P.AEL: .LONG 3
      00000000 004E8 .ADDRESS P.AEM
00 00 44 45 004EC P.AEO: .ASCII \ED\<()<0>
      00000002 004F0 P.AEN: .LONG 2
      00000000 004F4 .ADDRESS P.AEO
00 44 57 52 004F8 P.AEQ: .ASCII \RWD\<0>
      00000003 004FC P.AEP: .LONG 3
      00000000 00500 .ADDRESS P.AEQ
00 00 44 57 00504 P.AES: .ASCII \WD\<0><0>
      00000002 00508 P.AER: .LONG 2
      00000000 0050C .ADDRESS P.AES
00 00 44 52 00510 P.AEU: .ASCII \RD\<0><0>
      00000002 00514 P.AET: .LONG 2
      00000000 00518 .ADDRESS P.AEU
00 00 00 44 0051C P.AEW: .ASCII \D\<0><0><0>
      00000001 00520 P.AEV: .LONG 1
      00000000 00524 .ADDRESS P.AEW
00 45 57 52 00528 P.AEY: .ASCII \RWE\<0>
      00000003 0052C P.AEX: .LONG 3
      00000000 00530 .ADDRESS P.AEY
00 00 45 57 00534 P.AFA: .ASCII \WE\<0><0>
      00000002 00538 P.AEZ: .LONG 2
      00000000 0053C .ADDRESS P.AFA
00 00 45 52 00540 P.AFC: .ASCII \RE\<0><0>
      00000002 00544 P.AFB: .LONG 2
      00000000 00548 .ADDRESS P.AFC
00 00 00 45 0054C P.AFE: .ASCII \E\<0><0><0>
      00000001 00550 P.AFD: .LONG 1
      00000000 00554 .ADDRESS P.AFE
00 00 57 52 00558 P.AFG: .ASCII \RW\<0><0>
      00000002 0055C P.AFF: .LONG 2
      00000000 00560 .ADDRESS P.AFG
00 00 00 57 00564 P.AFI: .ASCII \W\<0><0><0>
      00000001 00568 P.AFH: .LONG 1
      00000000 0056C .ADDRESS P.AFI
00 00 00 52 00570 P.AFK: .ASCII \R\<0><0><0>
      00000001 00574 P.AFJ: .LONG 1
      00000000 00578 .ADDRESS P.AFK
      0057C P.AFM: .BLKB 0
      00000000 0057C P.AFL: .LONG 0
      00000000 00580 .ADDRESS P.AFM

```

.PSECT \$OWNS,NOEXE,2

```

00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00034 PROT_VALUES:
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 0004C
00000000' 00000000' 00000000' 00000000' 00000000' 00000000' 00064

```

```

.ADDRESS P.AEH, P.AEJ, P.AEL, P.AEN, P.AEP, -
P.AER, P.AET, P.AEV, P.AEX, P.AEZ, P.AFB, -
P.AFD, P.AFF, P.AFM, P.AFJ, P.AFL

```

.....

.PSECT \$CODE\$,NOWRT,2

			0004 00000	EXPAND_PRO :			
					.WORD	Save R2	: 2419
			50 D4 00002		CLRL	INDEX	: 2465
51	08	52	02 78 00004	1\$:	ASHL	#2, INDEX, R2	: 2466
		AC	52 EF 00008		EXTZV	R2, #4, PROTECTION, R1	:
		E8	04 BC40 00000000'EF	41 D0 0000E	MOVL	PROT VALUES[R1], @TABLE[INDEX]	:
			50	03 F3 00018	AOBLEQ	#3, INDEX, 1\$:
			50	01 D0 0001C	MOVL	#1, R0	: 2468
				04 0001F	RET		: 2470

; Routine Size: 32 bytes, Routine Base: \$CODE\$ + 1557

```

: 2487 2471 1 ROUTINE parse_class (desc) =
: 2488 2472 1
: 2489 2473 1 :---
: 2490 2474 1
: 2491 2475 1 This routine called from SETPRO ACTION, parses one class of user
: 2492 2476 1 (e.g. SYSTEM, OWNER, GROUP, WORD) to see what protection is allowed.
: 2493 2477 1 The value returned in the low 4 bits is the protection code, with the
: 2494 2478 1 bits set to reflect that access is requested. Note that this is
: 2495 2479 1 exactly the opposite of what the system wants.
: 2496 2480 1
: 2497 2481 1 Inputs:
: 2498 2482 1
: 2499 2483 1 DESC -- a descriptor pointing to the ASCII representation of the
: 2500 2484 1 protection desired
: 2501 2485 1
: 2502 2486 1 :---
: 2503 2487 1
: 2504 2488 2 BEGIN
: 2505 2489 2
: 2506 2490 2 MAP desc : REF $BBLOCK;
: 2507 2491 2
: 2508 2492 2 LOCAL
: 2509 2493 2 pointer, ! Pointer to string
: 2510 2494 2 result; ! Resultant protection
: 2511 2495 2
: 2512 2496 2
: 2513 2497 2 : Initially set the value to all zeros, no access
: 2514 2498 2
: 2515 2499 2 result = 0;
: 2516 2500 2
: 2517 2501 2
: 2518 2502 2 : Scan for the occurrence of each keyletter, and, if it is there, set the
: 2519 2503 2 appropriate bit.
: 2520 2504 2
: 2521 2505 2 pointer = .desc[dsc$a_pointer];
: 2522 2506 2 INCR index FROM 1 to .desc[dsc$w_length] DO
: 2523 2507 2 BEGIN
: 2524 2508 2 LOCAL char : BYTE;
: 2525 2509 2 char = CH$RCHAR_A(pointer);
: 2526 2510 2 IF .char EQL 'R'
: 2527 2511 2 THEN result = .result OR %X'1'
: 2528 2512 2 ELSE IF .char EQL 'W'
: 2529 2513 2 THEN result = .result OR %X'2'
: 2530 2514 2 ELSE IF .char EQL 'E'
: 2531 2515 2 OR .char EQL 'P'
: 2532 2516 2 THEN result = .result OR %X'4'
: 2533 2517 2 ELSE IF .char EQL 'D'
: 2534 2518 2 OR .char EQL 'L'
: 2535 2519 2 THEN result = .result OR %X'8'
: 2536 2520 2 ELSE SIGNAL_STOP (set$syntax, 1, .desc);
: 2537 2521 2 END;
: 2538 2522 2
: 2539 2523 2 RETURN .result;
: 2540 2524 1 END;

```

		007C	00000	PARSE_CLASS:		
				.WORD	Save R2,R3,R4,R5,R6	: 2471
	52	04	AC D0 00002	MOVL	DESC, R2	: 2505
	56	04	A2 D0 00006	MOVL	4(R2), POINTER	
	55		62 3C 0000A	MOVZWL	(R2), R5	: 2506
			53 7C 0000D	CLRQ	INDEX	
			4C 11 0000F	BRB	8\$	
	50		86 90 00011 1\$:	MOVB	(POINTER)+, CHAR	: 2509
52	8F		50 91 00014	CMPB	CHAR, #82	: 2510
			05 12 00018	BNEQ	2\$	
	54		01 88 0001A	BISB2	#1, RESULT	: 2511
			3E 11 0001D	BRB	8\$	
57	8F		50 91 0001F 2\$:	CMPB	CHAR, #87	: 2512
			05 12 00023	BNEQ	3\$	
	54		02 88 00025	BISB2	#2, RESULT	: 2513
			33 11 00028	BRB	8\$	
45	8F		50 91 0002A 3\$:	CMPB	CHAR, #69	: 2514
			06 13 0002E	BEQL	4\$	
50	8F		50 91 00030	CMPB	CHAR, #80	: 2515
			05 12 00034	BNEQ	5\$	
	54		04 88 00036 4\$:	BISB2	#4, RESULT	: 2516
			22 11 00039	BRB	8\$	
44	8F		50 91 0003B 5\$:	CMPB	CHAR, #68	: 2517
			06 13 0003F	BEQL	6\$	
4C	8F		50 91 00041	CMPB	CHAR, #76	: 2518
			05 12 00045	RNEQ	7\$	
	54		08 88 00047 6\$:	BISB2	#8, RESULT	: 2519
			11 11 0004A	BRB	8\$	
			52 DD 0004C 7\$:	PUSHL	R2	: 2520
			01 DD 0004E	PUSHL	#1	
		007710FA	8F DD 00050	PUSHL	#7803130	
B0	00000000G	00	03 FB 00056	CALLS	#3, LIB\$STOP	
		53	55 F3 0005D 8\$:	AOBLEQ	R5, INDEX, 1\$	: 2506
		50	54 D0 00061	MOVL	RESULT, R0	: 2523
			04 00064	RET		: 2524

: Routine Size: 101 bytes, Routine Base: \$CODE\$ + 1577

: 2542 2525 1 END
: 2543 2526 0 ELUDOM

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBALS	1112	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$OWNS	116	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	1412	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODES	5596	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
. ABS .	0	NOVEC, NOWRT, NORD, NOEXE, NOSHR, LCL, ABS, CON, NOPIC, ALIGN(0)

Library Statistics

File	----- Symbols -----		Pages Mapped	Processing Time
	Total	Loaded Percent		
_\$255\$DUA28:[SYSLIB]LIB.L32:1	18619	224 1	1000	00:01.9
_\$255\$DUA28:[SYSLIB]CLIMAC.L32:1	14	0 0	9	00:00.1

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:SETFILE/OBJ=OBJ\$:SETFILE MSRC\$:SETFILE/UPDATE=(ENHS:SETFILE)

: Size: 5596 code + 2640 data bytes
: Run Time: 01:41.5
: Elapsed Time: 05:29.3
: Lines/CPU Min: 1492
: Lexemes/CPU-Min: 22862
: Memory Used: 780 pages
: Compilation Complete

0053 AH-BT13A-SE
VAX/VMS V4.0

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The image displays a grid of 144 terminal windows, arranged in 12 rows and 12 columns. Each window shows a different terminal session, likely from a VAX/VMS system. The windows contain various system commands and their outputs, including:

- SETFILE LIS**: A window showing the output of the SETFILE command, listing file names and their attributes.
- SETPOMESS LIS**: A window showing the output of the SETPOMESS command, displaying message-related information.
- SETP001SP LIS**: A window showing the output of the SETP001SP command, displaying system parameters.
- SETMISC LIS**: A window showing the output of the SETMISC command, displaying miscellaneous system information.
- SETPRO LIS**: A window showing the output of the SETPRO command, displaying system profile information.
- SETMAIN LIS**: A window showing the output of the SETMAIN command, displaying main system configuration.

Other windows show various system messages, command prompts, and data listings. The text is small and dense, typical of a terminal window output. The overall appearance is that of a multi-terminal session on a VAX/VMS system.