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SSSSSSSS MM MM GGGGGGGG SSSSSSSS TTTTTTTTTT RRRRRRRR TTTTTTTTTT AAAAAA BBBB8888
SSSSSSSS MM MM GGGGGGGG SSSSSSSS TTTTTTTTTT RRRRRRRR TTTTTTTTTT AAAAAA BBBB8888
SS SS MMMM MMMM GG GG SSSSSSS TTTT TT RR RR RR TT AA AA BB BB
SS SS MMMM MMMM GG GG SSSSSSS TTTT TT RR RR RR TT AA AA BB BB
SS SS MM MM MM GG GG SSSSSSS TTTT TT RR RR RR TT AA AA BB BB
SS SSSSSS MM MM GG GG GGGGGG SSSSSS SS TT TT RRRRRRRR TT AA AA BBBB8888
SS SSSSSS MM MM GG GG GGGGGG SSSSSS SS TT TT RRRRRRRR TT AA AA BBBB8888
SS MM MM GG GGGGGG SS TT TT RRR RR TT AA AAAAAAAAAA BB BB
SS MM MM GG GGGGGG SS TT TT RRR RR TT AA AAAAAAAAAA BB BB
SS MM MM GG GG SS TT TT RRR RR TT AA AA BB BB
SSSSSSSS MM MM GGGGGG SSSSSSSS TT TT RR RR TT AA AA BBBB8888
SSSSSSSS MM MM GGGGGG SSSSSSSS TT TT RR RR TT AA AA BBBB8888

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

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52 0051 1 %SBTTL 'Declarations'
53 0052 1
54 0053 1 SWITCHES:
55 0054 1
56 0055 1
57 0056 1
58 0057 1 LINKAGES:
59 0058 1
60 0059 1 NONE
61 0060 1
62 0061 1 TABLE OF CONTENTS:
63 0062 1
64 0063 1
65 0064 1 FORWARD ROUTINE
66 0065 1 CONVERT_CONTROL,      ! convert ^ to control character
67 0066 1 CONVERT_ESCAPE,    ! convert $ to escape character
68 0067 1 EXPRESSION_ERROR,  ! signal an invalid expression error
69 0068 1 END_ARITH_CAP,     ! end an arithmetic expression
70 0069 1 INIT_ARITH_CAP,   ! prepare for arithmetic expression
71 0070 1 INSERT_CARROT,    ! insert ^ into a string
72 0071 1 INSERT_DOLLAR,   ! insert $ into a string
73 0072 1 INSERT_EXCLAMATION, ! insert ! into a string
74 0073 1 INSERT_PARENTHESIS, ! insert ( into a string
75 0074 1 INVALID_DIRECTIVE, ! signal invalid directive
76 0075 1 NOT_STRING,      ! signal an unknown capability name
77 0076 1 STORE_OPERAND,   ! store number & operator
78 0077 1 STORE_SUBSTITUTION; ! store % flag in arithmetic cap
79 0078 1
80 0079 1
81 0080 1 INCLUDE FILES:
82 0081 1
83 0082 1
84 0083 1 REQUIRE 'RTLIN:SMGPROLOG'; ! Defines psects, macros, etc.
85 0161 1
86 0162 1 LIBRARY 'RTLML:SMGTPALIB'; ! Definitions and macros used
87 0163 1 ! to create TERMTABLE.EXE
88 0164 1 LIBRARY 'RTLTPAMAC'; ! TPARSE library of macros
89 0165 1
90 0166 1
91 0167 1 EQUATED SYMBOLS:
92 0168 1
93 0169 1
94 0170 1 LITERAL
95 0171 1 SINGLE_QUOTE = %X'27';
96 0172 1 DOUBLE_QUOTE = %X'22';
97 0173 1 LEFT_PAREN = %X'28';
98 0174 1 RIGHT_PAREN = %X'29';
99 0175 1
100 0176 1
101 0177 1 FIELDS:
102 0178 1
103 0179 1 NONE
104 0180 1
105 0181 1 PSECTS:
106 0182 1
107 0183 1
108 0184 1

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109 0185 1 ! EXTERNAL REFERENCES:
110 0186 1 !
111 0187 1 EXTERNAL ROUTINE
112 0188 1     OTSSCVT_TIL,          ! convert ascii digits to integer
113 0189 1     SMG$$BLANKS_OFF,    ! turn off flag to process blanks
114 0190 1     SMG$$BLANKS_ON,    ! turn on flag to process blanks
115 0191 1     SMG$$COPY_CAP,     ! copy a string capability into TERMTABLE
116 0192 1     SMG$$FLUSH_ARITHMETIC, ! flush expression data to TERMTABLE.EXE
117 0193 1     SMG$$FLUSH_SAVED_BUFFER, ! flush saved token to TERMTABLE.EXE
118 0194 1     SMG$$MISSING_END,    ! signal error
119 0195 1     SMG$$NEXT_RECORD,   ! get next record from TERMTABLE.TXT
120 0196 1     SMG$$SAVE_TOKEN_STRING, ! store count & ptr to token
121 0197 1     SMG$$STORE_CAP_MASK, ! remember capability number
122 0198 1     SMG$$SYNTAX_ERROR;  ! signal syntax error
123 0199 1
124 0200 1 EXTERNAL
125 0201 1     SMG$_ERRAT_LIN,        ! error in line n at or near 'x'
126 0202 1     SMG$_INVDIR,        ! invalid directive
127 0203 1     SMG$_INVEXP,        ! invalid expression
128 0204 1     SMG$_MISTERNAM,     ! missing terminal name
129 0205 1     SMG$_NOTSTRCAP,     ! not a string capability
130 0206 1     SMG$_SYNERR;        ! syntax error
131 0207 1
132 0208 1 EXTERNAL
133 0209 1     SMG$$MASK_ADR,          ! used by TPARSE action routines
134 0210 1     SMG$$NEXT_NEGATIVE_NUMBER, ! used to set terminal number
135 0211 1     SMG$$CURRENT_LINE,   ! current input line - maintained
136 0212 1     ! for error messages
137 0213 1     SMG$$DATA_OFFSET;   ! offset into data buffer
138 0214 1
139 0215 1 !
140 0216 1 ! OWN STORAGE:
141 0217 1 !
142 0218 1 ! NONE

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144 0219 1 %SBTTL 'SMG$STRING_TABLES - TPARSE tables for string capabilities'
145 0220 1 !++
146 0221 1 ! FUNCTIONAL DESCRIPTION:
147 0222 1 !
148 0223 1 !     The following are the state tables used to parse string
149 0224 1 !     capabilities in a terminal definition.
150 0225 1 !
151 0226 1 ! --
152 0227 1 !
153 0228 1 $INIT_STATE (SMG$A_STRING_STATES, SMG$A_STRING_KEYWDS);
154 0229 1 ! set up state tables, key words
155 0230 1 !
156 0231 1 ! +
157 0232 1 ! Begin scanning loop. Look for the start of a capability.
158 0233 1 ! Skip over blanks and comments.
159 0234 1 ! -
160 0235 1 !
161 P 0236 1 $STATE (BEGIN_SCAN,
162 PP 0237 1 ((END_OF_LINE), BEGIN_SCAN, SMG$NEXT_RECORD),
163 PP 0238 1 ('!', -BEGIN_SCAN, SMG$NEXT_RECORD),
164 PP 0239 1 ((CAPABILITY), BEGIN_SCAN, SMG$BLANKS_OFF),
165 P 0240 1 (TPAS_LAMBDA, TPAS_EXIT)
166 0241 1 );
167 0242 1 !
168 0243 1 ! +
169 0244 1 ! This state indicates the end of a line. A comment also signals the
170 0245 1 ! end of a line.
171 0246 1 ! -
172 0247 1 !
173 P 0248 1 $STATE (END_OF_LINE,
174 P 0249 1 (TPAS_EOS, TPAS_EXIT),
175 P 0250 1 ('!', TPAS_EXIT),
176 P 0251 1 (TPAS_LAMBDA, TPAS_FAIL)
177 0252 1 );
178 0253 1 !
179 0254 1 ! +
180 0255 1 ! Find the capability name and determine if it's one that we expect.
181 0256 1 ! The string up to the '=' sign should be the capability name.
182 0257 1 ! -
183 0258 1 !
184 P 0259 1 $STATE (CAPABILITY,
185 P 0260 1 ((STRING_NAME), EQUALS_STRING, SMG$BLANKS_OFF),
186 P 0261 1 ('END', TPAS_FAIL),
187 P 0262 1 ('BOOLEAN', TPAS_FAIL),
188 P 0263 1 ('NUMERIC', TPAS_FAIL),
189 P 0264 1 ('STRING', BEGIN_SCAN),
190 P 0265 1 ('REQUIRE', TPAS_FAIL, SMG$MISSING_END),
191 P 0266 1 ('NAME', TPAS_FAIL, SMG$MISSING_END),
192 P 0267 1 (TPAS_SYMBOL, - , NOT_STRING)
193 0268 1 );
194 0269 1 !
195 0270 1 ! +
196 0271 1 ! Determine if string capability name is valid.
197 0272 1 ! -
198 0273 1 !
199 P 0274 1 $STATE (STRING_NAME,
200 P 0275 1 ('BEGIN_ALTERNATE_CHAR', TPAS_EXIT, , SMG$K_BEGIN_ALTERNATE_CHAR, SMG$MASK_ADR),

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201 P 0276 1 ('BEGIN_BLINK', TPA$ EXIT, , SMG$K BEGIN BLINK, SMG$$MASK_ADR),
202 P 0277 1 ('BEGIN_BOLD', TPA$ EXIT, , SMG$K BEGIN BOLD, SMG$$MASK_ADR),
203 P 0278 1 ('BEGIN_DELETE_MODE', TPA$ EXIT, , SMG$K BEGIN DELETE MODE, SMG$$MASK_ADR),
204 P 0279 1 ('BEGIN_INSERT_MODE', TPA$ EXIT, , SMG$K BEGIN INSERT MODE, SMG$$MASK_ADR),
205 P 0280 1 ('BEGIN_LINE_DRAWING_CHAR', TPA$ EXIT, , SMG$K BEGIN LINE DRAWING CHAR, SMG$$MASK_ADR),
206 P 0281 1 ('BEGIN_NORMAL_RENDITION', TPA$ EXIT, , SMG$K BEGIN NORMAL RENDITION, SMG$$MASK_ADR),
207 P 0282 1 ('BEGIN_REVERSE', TPA$ EXIT, , SMG$K BEGIN REVERSE, SMG$$MASK_ADR),
208 P 0283 1 ('BEGIN_UNDERSCORE', TPA$ EXIT, , SMG$K BEGIN UNDERSCORE, SMG$$MASK_ADR),
209 P 0284 1 ('BOTTOM_T_CHAR', TPA$ EXIT, , SMG$K BOTTOM T CHAR, SMG$$MASK_ADR),
210 P 0285 1 ('CLEAR_TAB', TPA$ EXIT, , SMG$K CLEAR TAB, SMG$$MASK_ADR),
211 P 0286 1 ('CR_GRAPHIC', TPA$ EXIT, , SMG$K CR GRAPHIC, SMG$$MASK_ADR),
212 P 0287 1 ('CROSS_CHAR', TPA$ EXIT, , SMG$K CROSS CHAR, SMG$$MASK_ADR),
213 P 0288 1 ('CURSOR_DOWN', TPA$ EXIT, , SMG$K CURSOR DOWN, SMG$$MASK_ADR),
214 P 0289 1 ('CURSOR_LEFT', TPA$ EXIT, , SMG$K CURSOR LEFT, SMG$$MASK_ADR),
215 P 0290 1 ('CURSOR_NEXT_LINE', TPA$ EXIT, , SMG$K CURSOR NEXT LINE, SMG$$MASK_ADR),
216 P 0291 1 ('CURSOR_POSITION_REPORT', TPA$ EXIT, , SMG$K CURSOR POSITION REPORT, SMG$$MASK_ADR),
217 P 0292 1 ('CURSOR_PRECEDING_LINE', TPA$ EXIT, , SMG$K CURSOR PRECEDING LINE, SMG$$MASK_ADR),
218 P 0293 1 ('CURSOR_RIGHT', TPA$ EXIT, , SMG$K CURSOR RIGHT, SMG$$MASK_ADR),
219 P 0294 1 ('CURSOR_UP', TPA$ EXIT, , SMG$K CURSOR UP, SMG$$MASK_ADR),
220 P 0295 1 ('DARK_SCREEN', TPA$ EXIT, , SMG$K DARK SCREEN, SMG$$MASK_ADR),
221 P 0296 1 ('DELETE_CHAR', TPA$ EXIT, , SMG$K DELETE CHAR, SMG$$MASK_ADR),
222 P 0297 1 ('DELETE_LINE', TPA$ EXIT, , SMG$K DELETE LINE, SMG$$MASK_ADR),
223 P 0298 1 ('DEVICE_ATTRIBUTES', TPA$ EXIT, , SMG$K DEVICE ATTRIBUTES, SMG$$MASK_ADR),
224 P 0299 1 ('DOUBLE_HIGH_BOTTOM', TPA$ EXIT, , SMG$K DOUBLE HIGH BOTTOM, SMG$$MASK_ADR),
225 P 0300 1 ('DOUBLE_HIGH_TOP', TPA$ EXIT, , SMG$K DOUBLE HIGH TOP, SMG$$MASK_ADR),
226 P 0301 1 ('DOUBLE_WIDE', TPA$ EXIT, , SMG$K DOUBLE WIDE, SMG$$MASK_ADR),
227 P 0302 1 ('DUPLICATE', TPA$ EXIT, , SMG$K DUPLICATE, SMG$$MASK_ADR),
228 P 0303 1 ('END_ALTERNATE_CHAR', TPA$ EXIT, , SMG$K END ALTERNATE CHAR, SMG$$MASK_ADR),
229 P 0304 1 ('END_BLINK', TPA$ EXIT, , SMG$K END BLINK, SMG$$MASK_ADR),
230 P 0305 1 ('END_BOLD', TPA$ EXIT, , SMG$K END BOLD, SMG$$MASK_ADR),
231 P 0306 1 ('END_DELETE_MODE', TPA$ EXIT, , SMG$K END DELETE MODE, SMG$$MASK_ADR),
232 P 0307 1 ('END_INSERT_MODE', TPA$ EXIT, , SMG$K END INSERT MODE, SMG$$MASK_ADR),
233 P 0308 1 ('END_LINE_DRAWING_CHAR', TPA$ EXIT, , SMG$K END LINE DRAWING CHAR, SMG$$MASK_ADR),
234 P 0309 1 ('END_REVERSE', TPA$ EXIT, , SMG$K END REVERSE, SMG$$MASK_ADR),
235 P 0310 1 ('END_UNDERSCORE', TPA$ EXIT, , SMG$K END UNDERSCORE, SMG$$MASK_ADR),
236 P 0311 1 ('ERASE_TO_END_DISPLAY', TPA$ EXIT, , SMG$K ERASE TO END DISPLAY, SMG$$MASK_ADR),
237 P 0312 1 ('ERASE_TO_END_LINE', TPA$ EXIT, , SMG$K ERASE TO END LINE, SMG$$MASK_ADR),
238 P 0313 1 ('ERASE_WHOLE_DISPLAY', TPA$ EXIT, , SMG$K ERASE WHOLE DISPLAY, SMG$$MASK_ADR),
239 P 0314 1 ('ERASE_WHOLE_LINE', TPA$ EXIT, , SMG$K ERASE WHOLE LINE, SMG$$MASK_ADR),
240 P 0315 1 ('FF_GRAPHIC', TPA$ EXIT, , SMG$K FF GRAPHIC, SMG$$MASK_ADR),
241 P 0316 1 ('HOME', TPA$ EXIT, , SMG$K HOME, SMG$$MASK_ADR),
242 P 0317 1 ('HORIZONTAL_BAR', TPA$ EXIT, , SMG$K HORIZONTAL BAR, SMG$$MASK_ADR),
243 P 0318 1 ('HT_GRAPHIC', TPA$ EXIT, , SMG$K HT GRAPHIC, SMG$$MASK_ADR),
244 P 0319 1 ('INDEX', TPA$ EXIT, , SMG$K INDEX, SMG$$MASK_ADR),
245 P 0320 1 ('INIT_STRING', TPA$ EXIT, , SMG$K INIT STRING, SMG$$MASK_ADR),
246 P 0321 1 ('INSERT_CHAR', TPA$ EXIT, , SMG$K INSERT CHAR, SMG$$MASK_ADR),
247 P 0322 1 ('INSERT_LINE', TPA$ EXIT, , SMG$K INSERT LINE, SMG$$MASK_ADR),
248 P 0323 1 ('INSERT_PAD', TPA$ EXIT, , SMG$K INSERT PAD, SMG$$MASK_ADR),
249 P 0324 1 ('KEY_0', TPA$ EXIT, , SMG$K_KEY_0, SMG$$MASK_ADR),
250 P 0325 1 ('KEY_1', TPA$ EXIT, , SMG$K_KEY_1, SMG$$MASK_ADR),
251 P 0326 1 ('KEY_2', TPA$ EXIT, , SMG$K_KEY_2, SMG$$MASK_ADR),
252 P 0327 1 ('KEY_3', TPA$ EXIT, , SMG$K_KEY_3, SMG$$MASK_ADR),
253 P 0328 1 ('KEY_4', TPA$ EXIT, , SMG$K_KEY_4, SMG$$MASK_ADR),
254 P 0329 1 ('KEY_5', TPA$ EXIT, , SMG$K_KEY_5, SMG$$MASK_ADR),
255 P 0330 1 ('KEY_6', TPA$ EXIT, , SMG$K_KEY_6, SMG$$MASK_ADR),
256 P 0331 1 ('KEY_7', TPA$ EXIT, , SMG$K_KEY_7, SMG$$MASK_ADR),
257 P 0332 1 ('KEY_8', TPA$ EXIT, , SMG$K_KEY_8, SMG$$MASK_ADR),

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258 P 0333 1 ('KEY_9', TPAS_EXIT, SMG$K_KEY_9, SMG$SMASK_ADR),
259 P 0334 1 ('KEY_BACKSPACE', TPAS_EXIT, SMG$K_KEY_BACKSPACE, SMG$SMASK_ADR),
260 P 0335 1 ('KEY_COMMA', TPAS_EXIT, SMG$K_KEY_COMMA, SMG$SMASK_ADR),
261 P 0336 1 ('KEY_DOWN_ARROW', TPAS_EXIT, SMG$K_KEY_DOWN_ARROW, SMG$SMASK_ADR),
262 P 0337 1 ('KEY_E1', TPAS_EXIT, SMG$K_KEY_E1, SMG$SMASK_ADR),
263 P 0338 1 ('KEY_E2', TPAS_EXIT, SMG$K_KEY_E2, SMG$SMASK_ADR),
264 P 0339 1 ('KEY_E3', TPAS_EXIT, SMG$K_KEY_E3, SMG$SMASK_ADR),
265 P 0340 1 ('KEY_E4', TPAS_EXIT, SMG$K_KEY_E4, SMG$SMASK_ADR),
266 P 0341 1 ('KEY_E5', TPAS_EXIT, SMG$K_KEY_E5, SMG$SMASK_ADR),
267 P 0342 1 ('KEY_E6', TPAS_EXIT, SMG$K_KEY_E6, SMG$SMASK_ADR),
268 P 0343 1 ('KEY_ENTER', TPAS_EXIT, SMG$K_KEY_ENTER, SMG$SMASK_ADR),
269 P 0344 1 ('KEY_F1', TPAS_EXIT, SMG$K_KEY_F1, SMG$SMASK_ADR),
270 P 0345 1 ('KEY_F2', TPAS_EXIT, SMG$K_KEY_F2, SMG$SMASK_ADR),
271 P 0346 1 ('KEY_F3', TPAS_EXIT, SMG$K_KEY_F3, SMG$SMASK_ADR),
272 P 0347 1 ('KEY_F4', TPAS_EXIT, SMG$K_KEY_F4, SMG$SMASK_ADR),
273 P 0348 1 ('KEY_F5', TPAS_EXIT, SMG$K_KEY_F5, SMG$SMASK_ADR),
274 P 0349 1 ('KEY_F6', TPAS_EXIT, SMG$K_KEY_F6, SMG$SMASK_ADR),
275 P 0350 1 ('KEY_F7', TPAS_EXIT, SMG$K_KEY_F7, SMG$SMASK_ADR),
276 P 0351 1 ('KEY_F8', TPAS_EXIT, SMG$K_KEY_F8, SMG$SMASK_ADR),
277 P 0352 1 ('KEY_F9', TPAS_EXIT, SMG$K_KEY_F9, SMG$SMASK_ADR),
278 P 0353 1 ('KEY_F10', TPAS_EXIT, SMG$K_KEY_F10, SMG$SMASK_ADR),
279 P 0354 1 ('KEY_F11', TPAS_EXIT, SMG$K_KEY_F11, SMG$SMASK_ADR),
280 P 0355 1 ('KEY_F12', TPAS_EXIT, SMG$K_KEY_F12, SMG$SMASK_ADR),
281 P 0356 1 ('KEY_F13', TPAS_EXIT, SMG$K_KEY_F13, SMG$SMASK_ADR),
282 P 0357 1 ('KEY_F14', TPAS_EXIT, SMG$K_KEY_F14, SMG$SMASK_ADR),
283 P 0358 1 ('KEY_F15', TPAS_EXIT, SMG$K_KEY_F15, SMG$SMASK_ADR),
284 P 0359 1 ('KEY_F16', TPAS_EXIT, SMG$K_KEY_F16, SMG$SMASK_ADR),
285 P 0360 1 ('KEY_F17', TPAS_EXIT, SMG$K_KEY_F17, SMG$SMASK_ADR),
286 P 0361 1 ('KEY_F18', TPAS_EXIT, SMG$K_KEY_F18, SMG$SMASK_ADR),
287 P 0362 1 ('KEY_F19', TPAS_EXIT, SMG$K_KEY_F19, SMG$SMASK_ADR),
288 P 0363 1 ('KEY_F20', TPAS_EXIT, SMG$K_KEY_F20, SMG$SMASK_ADR),
289 P 0364 1 ('KEY_LEFT_ARROW', TPAS_EXIT, SMG$K_KEY_LEFT_ARROW, SMG$SMASK_ADR),
290 P 0365 1 ('KEY_MINUS', TPAS_EXIT, SMG$K_KEY_MINUS, SMG$SMASK_ADR),
291 P 0366 1 ('KEY_PERIOD', TPAS_EXIT, SMG$K_KEY_PERIOD, SMG$SMASK_ADR),
292 P 0367 1 ('KEY_PF1', TPAS_EXIT, SMG$K_KEY_PFT, SMG$SMASK_ADR),
293 P 0368 1 ('KEY_PF2', TPAS_EXIT, SMG$K_KEY_PFT, SMG$SMASK_ADR),
294 P 0369 1 ('KEY_PF3', TPAS_EXIT, SMG$K_KEY_PFT, SMG$SMASK_ADR),
295 P 0370 1 ('KEY_PF4', TPAS_EXIT, SMG$K_KEY_PFT, SMG$SMASK_ADR),
296 P 0371 1 ('KEY_RIGHT_ARROW', TPAS_EXIT, SMG$K_KEY_RIGHT_ARROW, SMG$SMASK_ADR),
297 P 0372 1 ('KEY_UP_ARROW', TPAS_EXIT, SMG$K_KEY_UP_ARROW, SMG$SMASK_ADR),
298 P 0373 1 ('LABEL_F1', TPAS_EXIT, SMG$K_LABEL_F1, SMG$SMASK_ADR),
299 P 0374 1 ('LABEL_F2', TPAS_EXIT, SMG$K_LABEL_F2, SMG$SMASK_ADR),
300 P 0375 1 ('LABEL_F3', TPAS_EXIT, SMG$K_LABEL_F3, SMG$SMASK_ADR),
301 P 0376 1 ('LABEL_F4', TPAS_EXIT, SMG$K_LABEL_F4, SMG$SMASK_ADR),
302 P 0377 1 ('LABEL_F5', TPAS_EXIT, SMG$K_LABEL_F5, SMG$SMASK_ADR),
303 P 0378 1 ('LABEL_F6', TPAS_EXIT, SMG$K_LABEL_F6, SMG$SMASK_ADR),
304 P 0379 1 ('LABEL_F7', TPAS_EXIT, SMG$K_LABEL_F7, SMG$SMASK_ADR),
305 P 0380 1 ('LABEL_F8', TPAS_EXIT, SMG$K_LABEL_F8, SMG$SMASK_ADR),
306 P 0381 1 ('LABEL_F9', TPAS_EXIT, SMG$K_LABEL_F9, SMG$SMASK_ADR),
307 P 0382 1 ('LABEL_F10', TPAS_EXIT, SMG$K_LABEL_F10, SMG$SMASK_ADR),
308 P 0383 1 ('LABEL_F11', TPAS_EXIT, SMG$K_LABEL_F11, SMG$SMASK_ADR),
309 P 0384 1 ('LABEL_F12', TPAS_EXIT, SMG$K_LABEL_F12, SMG$SMASK_ADR),
310 P 0385 1 ('LABEL_F13', TPAS_EXIT, SMG$K_LABEL_F13, SMG$SMASK_ADR),
311 P 0386 1 ('LABEL_F14', TPAS_EXIT, SMG$K_LABEL_F14, SMG$SMASK_ADR),
312 P 0387 1 ('LABEL_F15', TPAS_EXIT, SMG$K_LABEL_F15, SMG$SMASK_ADR),
313 P 0388 1 ('LABEL_F16', TPAS_EXIT, SMG$K_LABEL_F16, SMG$SMASK_ADR),
314 P 0389 1 ('LABEL_F17', TPAS_EXIT, SMG$K_LABEL_F17, SMG$SMASK_ADR),

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315 P 0390 1 ('LABEL_F18', TPAS_EXIT, , SMG$K_LABEL_F18, SMG$$MASK_ADR),
316 P 0391 1 ('LABEL_F19', TPAS_EXIT, , SMG$K_LABEL_F19, SMG$$MASK_ADR),
317 P 0392 1 ('LABEL_F20', TPAS_EXIT, , SMG$K_LABEL_F20, SMG$$MASK_ADR),
318 P 0393 1 ('LEFT_T_CHAR', TPAS_EXIT, , SMG$K_LEFT_T_CHAR, SMG$$MASK_ADR),
319 P 0394 1 ('LF_GRAPHIC', TPAS_EXIT, , SMG$K_LF_GRAPHIC, SMG$$MASK_ADR),
320 P 0395 1 ('LIGHT_SCREEN', TPAS_EXIT, , SMG$K_LIGHT_SCREEN, SMG$$MASK_ADR),
321 P 0396 1 ('LOWER_LEFT_CORNER', TPAS_EXIT, , SMG$K_LOWER_LEFT_CORNER, SMG$$MASK_ADR),
322 P 0397 1 ('LOWER_RIGHT_CORNER', TPAS_EXIT, , SMG$K_LOWER_RIGHT_CORNER, SMG$$MASK_ADR),
323 P 0398 1 ('NAME', TPAS_EXIT, , SMG$K_NAME, SMG$$MASK_ADR),
324 P 0399 1 ('NEWLINE_CHAR', TPAS_EXIT, , SMG$K_NEWLINE_CHAR, SMG$$MASK_ADR),
325 P 0400 1 ('PAD_CHAR', TPAS_EXIT, , SMG$K_PAD_CHAR, SMG$$MASK_ADR),
326 P 0401 1 ('REQUEST_CURSOR_POSITION', TPAS_EXIT, , SMG$K_REQUEST_CURSOR_POSITION, SMG$$MASK_ADR),
327 P 0402 1 ('RESTORE_CURSOR', TPAS_EXIT, , SMG$K_RESTORE_CURSOR, SMG$$MASK_ADR),
328 P 0403 1 ('REVERSE_INDEX', TPAS_EXIT, , SMG$K_REVERSE_INDEX, SMG$$MASK_ADR),
329 P 0404 1 ('RIGHT_T_CHAR', TPAS_EXIT, , SMG$K_RIGHT_T_CHAR, SMG$$MASK_ADR),
330 P 0405 1 ('SAVE_CURSOR', TPAS_EXIT, , SMG$K_SAVE_CURSOR, SMG$$MASK_ADR),
331 P 0406 1 ('SCROLL_FORWARD', TPAS_EXIT, , SMG$K_SCROLL_FORWARD, SMG$$MASK_ADR),
332 P 0407 1 ('SCROLL_REVERSE', TPAS_EXIT, , SMG$K_SCROLL_REVERSE, SMG$$MASK_ADR),
333 P 0408 1 ('SEL_ERASE_TO_END_DISPLAY', TPAS_EXIT, , SMG$K_SEL_ERASE_TO_END_DISPLAY, SMG$$MASK_ADR),
334 P 0409 1 ('SEL_ERASE_TO_END_LINE', TPAS_EXIT, , SMG$K_SEL_ERASE_TO_END_LINE, SMG$$MASK_ADR),
335 P 0410 1 ('SEL_ERASE_WHOLE_DISPLAY', TPAS_EXIT, , SMG$K_SEL_ERASE_WHOLE_DISPLAY, SMG$$MASK_ADR),
336 P 0411 1 ('SEL_ERASE_WHOLE_LINE', TPAS_EXIT, , SMG$K_SEL_ERASE_WHOLE_LINE, SMG$$MASK_ADR),
337 P 0412 1 ('SET_APPLICATION_KEYPAD', TPAS_EXIT, , SMG$K_SET_APPLICATION_KEYPAD, SMG$$MASK_ADR),
338 P 0413 1 ('SET_CHAR_NOT_SEL_ERASE', TPAS_EXIT, , SMG$K_SET_CHAR_NOT_SEL_ERASE, SMG$$MASK_ADR),
339 P 0414 1 ('SET_CHAR_SEL_ERASE', TPAS_EXIT, , SMG$K_SET_CHAR_SEL_ERASE, SMG$$MASK_ADR),
340 P 0415 1 ('SET_CURSOR_ABS', TPAS_EXIT, , SMG$K_SET_CURSOR_ABS, SMG$$MASK_ADR),
341 P 0416 1 ('SET_NUMERIC_KEYPAD', TPAS_EXIT, , SMG$K_SET_NUMERIC_KEYPAD, SMG$$MASK_ADR),
342 P 0417 1 ('SET_SCROLL_REGION', TPAS_EXIT, , SMG$K_SET_SCROLL_REGION, SMG$$MASK_ADR),
343 P 0418 1 ('SET_TAB', TPAS_EXIT, , SMG$K_SET_TAB, SMG$$MASK_ADR),
344 P 0419 1 ('SINGLE_HIGH', TPAS_EXIT, , SMG$K_SINGLE_HIGH, SMG$$MASK_ADR),
345 P 0420 1 ('TAB_CHAR', TPAS_EXIT, , SMG$K_TAB_CHAR, SMG$$MASK_ADR),
346 P 0421 1 ('TOP_T_CHAR', TPAS_EXIT, , SMG$K_TOP_T_CHAR, SMG$$MASK_ADR),
347 P 0422 1 ('TRUNCATION_ICON', TPAS_EXIT, , SMG$K_TRUNCATION_ICON, SMG$$MASK_ADR),
348 P 0423 1 ('UNDERLINE_CHAR', TPAS_EXIT, , SMG$K_UNDERLINE_CHAR, SMG$$MASK_ADR),
349 P 0424 1 ('UPPER_LEFT_CORNER', TPAS_EXIT, , SMG$K_UPPER_LEFT_CORNER, SMG$$MASK_ADR),
350 P 0425 1 ('UPPER_RIGHT_CORNER', TPAS_EXIT, , SMG$K_UPPER_RIGHT_CORNER, SMG$$MASK_ADR),
351 P 0426 1 ('VERTICAL_BAR', TPAS_EXIT, , SMG$K_VERTICAL_BAR, SMG$$MASK_ADR),
352 P 0427 1 ('VT_GRAPHIC', TPAS_EXIT, , SMG$K_VT_GRAPHIC, SMG$$MASK_ADR),
353 P 0428 1 ('WIDTH_NARROW', TPAS_EXIT, , SMG$K_WIDTH_NARROW, SMG$$MASK_ADR),
354 P 0429 1 ('WIDTH_WIDE', TPAS_EXIT, , SMG$K_WIDTH_WIDE, SMG$$MASK_ADR),
355 P 0430 1 ('PRIVATE_STR_1', TPAS_EXIT, , SMG$K_PRIVATE_STR_1, SMG$$MASK_ADR),
356 P 0431 1 ('PRIVATE_STR_2', TPAS_EXIT, , SMG$K_PRIVATE_STR_2, SMG$$MASK_ADR),
357 P 0432 1 ('PRIVATE_STR_3', TPAS_EXIT, , SMG$K_PRIVATE_STR_3, SMG$$MASK_ADR),
358 P 0433 1 ('PRIVATE_STR_4', TPAS_EXIT, , SMG$K_PRIVATE_STR_4, SMG$$MASK_ADR),
359 P 0434 1 ('PRIVATE_STR_5', TPAS_EXIT, , SMG$K_PRIVATE_STR_5, SMG$$MASK_ADR),
360 P 0435 1 ('PRIVATE_STR_6', TPAS_EXIT, , SMG$K_PRIVATE_STR_6, SMG$$MASK_ADR),
361 P 0436 1 ('PRIVATE_STR_7', TPAS_EXIT, , SMG$K_PRIVATE_STR_7, SMG$$MASK_ADR),
362 P 0437 1 ('PRIVATE_STR_8', TPAS_EXIT, , SMG$K_PRIVATE_STR_8, SMG$$MASK_ADR),
363 P 0438 1 ('PRIVATE_STR_9', TPAS_EXIT, , SMG$K_PRIVATE_STR_9, SMG$$MASK_ADR),
364 P 0439 1 ('PRIVATE_STR_10', TPAS_EXIT, , SMG$K_PRIVATE_STR_10, SMG$$MASK_ADR),
365 P 0440 1 (TPAS_LAMBDA, TPAS_FAIL)
366 0441 1 );
367 0442 1
368 0443 1
369 0444 1 !*
370 0445 1 ! found a name, now look for the value. Skip over the intervening
371 0446 1 ! equals sign. (If we get to '=', then we also have a capability
! name/number to remember.)

```

```

372 0447 1 !-
373 0448 1
374 P 0449 1 $STATE (EQUALS_STRING,
375 P 0450 1 ((END_OF_LINE), EQUALS_STRING, SMG$$NEXT_RECORD),
376 P 0451 1 ('='-STRING_CAP_VALUE, SMG$$STORE_CAP_MASK),
377 P 0452 1 (TPAS_SYMBOL, , SMG$$SYNTAX_ERROR),
378 P 0453 1 (TPAS_ANY, , SMG$$SYNTAX_ERROR)
379 0454 1 );
380 0455 1
381 0456 1 !+
382 0457 1 ! We have found a capability name, now we need to decipher its value.
383 0458 1 ! We found a string capability name so this better be a string value.
384 0459 1 !-
385 0460 1
386 P 0461 1 $STATE (STRING_CAP_VALUE,
387 P 0462 1 ((END_OF_LINE), STRING_CAP_VALUE, SMG$$NEXT_RECORD),
388 P 0463 1 ((STRING_CAP), BEGIN_SCAN),
389 P 0464 1 (TPAS_SYMBOL, , SMG$$SYNTAX_ERROR),
390 P 0465 1 (TPAS_ANY, , SMG$$SYNTAX_ERROR)
391 0466 1 );
392 0467 1
393 P 0468 1 $STATE (COMMA,
394 P 0469 1 ('', TPAS_EXIT, SMG$$BLANKS_OFF),
395 P 0470 1 (TPAS_BLANK, COMMA, SMG$$BLANKS_OFF),
396 P 0471 1 ((END_OF_LINE), TPAS_EXIT, SMG$$NEXT_RECORD),
397 P 0472 1 (TPAS_ANY, , SMG$$SYNTAX_ERROR)
398 0473 1 );
399 0474 1
400 0475 1 !+
401 0476 1 ! A string capability requires further parsing. There may be an embedded
402 0477 1 ! special character, an FAO call, or arithmetic. A matching quote indicates
403 0478 1 ! the end of the string value, which should be stored in TERMTABLE.EXE.
404 0479 1 !-
405 0480 1
406 P 0481 1 $STATE (STRING_CAP,
407 P 0482 1 (SINGLE_QUOTE, SINGLE_QUOTE_STRING, SMG$$BLANKS_ON),
408 P 0483 1 (DOUBLE_QUOTE, DOUBLE_QUOTE_STRING, SMG$$BLANKS_ON),
409 P 0484 1 (TPAS_ANY, TPAS_FAIL)
410 0485 1 );
411 0486 1
412 P 0487 1 $STATE (SINGLE_QUOTE_STRING,
413 P 0488 1 ((UNDERSCORE), SINGLE_QUOTE_STRING),
414 P 0489 1 ('$', SINGLE_QUOTE_STRING, CONVERT_ESCAPE),
415 P 0490 1 ((CARROT), SINGLE_QUOTE_STRING),
416 P 0491 1 ((FAO_STRING), SINGLE_QUOTE_STRING),
417 P 0492 1 ((ARITH_CAP), SINGLE_QUOTE_STRING),
418 P 0493 1 (SINGLE_QUOTE, COMMA, SMG$$COPY_CAP),
419 P 0494 1 (TPAS_BLANK, SINGLE_QUOTE_STRING, SMG$$SAVE_TOKEN_STRING),
420 P 0495 1 (DOUBLE_QUOTE, , SMG$$SYNTAX_ERROR),
421 P 0496 1 (TPAS_ANY, SINGLE_QUOTE_STRING, SMG$$SAVE_TOKEN_STRING),
422 P 0497 1 (TPAS_LAMBDA, TPAS_EXIT)
423 0498 1 );
424 0499 1
425 P 0500 1 $STATE (DOUBLE_QUOTE_STRING,
426 P 0501 1 ((UNDERSCORE), DOUBLE_QUOTE_STRING),
427 P 0502 1 ('$', DOUBLE_QUOTE_STRING, CONVERT_ESCAPE),
428 P 0503 1 ((CARROT), DOUBLE_QUOTE_STRING),

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429 P 0504 1 ((FAO STRING), DOUBLE QUOTE STRING),
430 P 0505 1 ((ARITH_CAP), DOUBLE QUOTE STRING),
431 P 0506 1 (DOUBLE_QUOTE, COMMA, SMG$COPY_CAP),
432 P 0507 1 (TPAS_BLANK, DOUBLE QUOTE STRING, SMG$SAVE_TOKEN_STRING),
433 P 0508 1 (SINGLE_QUOTE, SMG$SYNTAX_ERROR),
434 P 0509 1 (TPAS_ANY, DOUBLE QUOTE STRING, SMG$SAVE_TOKEN_STRING),
435 P 0510 1 (TPAS_LAMBDA, TPAS_EXIT)
436 0511 1 );
437 0512 1
438 0513 1 !+
439 0514 1 ! Underscore is used to insert special characters into a string as
440 0515 1 ! normal text. If this underscore is followed by a special character,
441 0516 1 ! skip over it and just store the special character.
442 0517 1 !-
443 0518 1
444 P 0519 1 $STATE (UNDERScore,
445 P 0520 1 (' ', UNDERSCORE2),
446 P 0521 1 (TPAS_LAMBDA, TPAS_FAIL)
447 0522 1 );
448 0523 1
449 P 0524 1 $STATE (UNDERScore2,
450 P 0525 1 ('$ ', TPAS_EXIT, INSERT_DOLLAR),
451 P 0526 1 ('^ ', TPAS_EXIT, INSERT_CARROT),
452 P 0527 1 ('!', TPAS_EXIT, INSERT_EXCLAMATION),
453 P 0528 1 ('(', TPAS_EXIT, INSERT_PARENTHESIS),
454 P 0529 1 (TPAS_LAMBDA, TPAS_FAIL)
455 0530 1 );
456 0531 1
457 0532 1 !+
458 0533 1 ! If we find a ^, advance to the next character and call the conversion
459 0534 1 ! routine. The conversion routine will complain if this is a control
460 0535 1 ! sequence we don't know about.
461 0536 1 !-
462 0537 1
463 P 0538 1 $STATE (CARROT,
464 P 0539 1 ('^ ', CONTROL_CHAR),
465 P 0540 1 (TPAS_LAMBDA, TPAS_FAIL)
466 0541 1 );
467 0542 1
468 P 0543 1 $STATE (CONTROL_CHAR,
469 P 0544 1 (TPAS_ANY, TPAS_EXIT, CONVERT_CONTROL)
470 0545 1 );
471 0546 1
472 0547 1 !+
473 0548 1 ! Check for a FAO directive. Make sure it's one we understand.
474 0549 1 !-
475 P 0550 1 $STATE (FAO_STRING,
476 P 0551 1 ('!', SMG$SAVE_TOKEN_STRING),
477 P 0552 1 (TPAS_LAMBDA, TPAS_FAIL)
478 0553 1 );
479 0554 1
480 P 0555 1 $STATE (,
481 P 0556 1 ('U', SMG$SAVE_TOKEN_STRING),
482 P 0557 1 (TPAS_SYMBOL, TPAS_FAIL, INVALID_DIRECTIVE),
483 P 0558 1 (TPAS_ANY, TPAS_FAIL, INVALID_DIRECTIVE)
484 0559 1 );
485 0560 1

```

```

486 P 0561 1 $STATE (
487 P 0562 1 ('L', TPAS_EXIT, SMG$$SAVE_TOKEN_STRING, SMG$K_FAO_STRING, SMG$$MASK_ADR),
488 P 0563 1 (TPAS_SYMBOL, TPAS_FAIL, INVALID_DIRECTIVE),
489 P 0564 1 (TPAS_ANY, TPAS_FAIL, INVALID_DIRECTIVE)
490 0565 1 );
491 0566 1
492 0567 1 !+
493 0568 1 ! Parse arithmetic string. We can't complete arithmetic processing until
494 0569 1 ! run-time, but here we pre-compile as much as possible. Arithmetic
495 0570 1 ! expressions are stored as number, op, number, op, number ... etc.
496 0571 1 !-
497 0572 1
498 P 0573 1 $STATE (ARITH_CAP,
499 P 0574 1 (LEFT_PAREN, ARITH_CAP2, INIT_ARITH_CAP),
500 P 0575 1 (TPAS_BLANK, ARITH_CAP),
501 P 0576 1 (TPAS_LAMBDA, TPAS_FAIL)
502 0577 1 );
503 0578 1
504 P 0579 1 $STATE (ARITH_CAP2,
505 P 0580 1 ((OPERAND), TPAS_EXIT), ! errors handled in OPERAND
506 P 0581 1 (TPAS_LAMBDA, TPAS_FAIL) ! return w/out consuming next token
507 0582 1 );
508 0583 1
509 P 0584 1 $STATE (OPERATOR,
510 P 0585 1 ('+', OPERAND, , SMG$K_ADD, SMG$$MASK_ADR),
511 P 0586 1 ('-', OPERAND, , SMG$K_SUBTRACT, SMG$$MASK_ADR),
512 P 0587 1 ('*', OPERAND, , SMG$K_MULTIPLY, SMG$$MASK_ADR),
513 P 0588 1 ('/', OPERAND, , SMG$K_DIVIDE, SMG$$MASK_ADR),
514 P 0589 1 (RIGHT_PAREN, TPAS_EXIT, END_ARITH_CAP),
515 P 0590 1 (TPAS_ANY, , EXPRESSION_ERROR)
516 0591 1 );
517 0592 1
518 P 0593 1 $STATE (OPERAND,
519 P 0594 1 (TPAS_DECIMAL, OPERATOR, STORE_OPERAND),
520 P 0595 1 ((SUBSTITUTION), OPERATOR),
521 P 0596 1 (TPAS_SYMBOL, , EXPRESSION_ERROR),
522 P 0597 1 (TPAS_ANY, , EXPRESSION_ERROR)
523 0598 1 );
524 0599 1
525 P 0600 1 $STATE (SUBSTITUTION,
526 P 0601 1 ('%'),
527 P 0602 1 (TPAS_LAMBDA, TPAS_FAIL)
528 0603 1 );
529 0604 1
530 0605 1 ! % should be followed by a number
531 P 0606 1 $STATE (
532 P 0607 1 (TPAS_DECIMAL, TPAS_EXIT, STORE_SUBSTITUTION),
533 P 0608 1 (TPAS_ANY, , EXPRESSION_ERROR)
534 0609 1 );
535 0610 1
536 0611 1
    
```

```

538 0612 1 %SBTTL 'CONVERT_CONTROL - Convert ^ to control character'
539 0613 1 ROUTINE CONVERT_CONTROL =
540 0614 1
541 0615 1 !++
542 0616 1 FUNCTIONAL DESCRIPTION:
543 0617 1
544 0618 1     Stores a control character in the current capability string in
545 0619 1     TERMTABLE.EXE.
546 0620 1
547 0621 1 CALLING SEQUENCE:
548 0622 1
549 0623 1     status = CONVERT_CONTROL ( )
550 0624 1
551 0625 1 FORMAL PARAMETERS:
552 0626 1
553 0627 1     NONE
554 0628 1
555 0629 1 IMPLICIT INPUTS:
556 0630 1
557 0631 1     AP     Points to TPARSE parameter block
558 0632 1
559 0633 1 IMPLICIT OUTPUTS:
560 0634 1
561 0635 1     NONE
562 0636 1
563 0637 1 COMPLETION STATUS:
564 0638 1
565 0639 1     SSS_NORMAL
566 0640 1
567 0641 1 SIDE EFFECTS:
568 0642 1
569 0643 1 --
570 0644 1
571 0645 2 BEGIN
572 0646 2 BUILTIN
573 0647 2 CALLG,
574 0648 2 AP;
575 0649 2 MAP
576 0650 2 AP : REF BLOCK [,BYTE];
577 0651 2 BIND
578 0652 2 CAP_PTRS = .AP [PARAM_L_CUR_TERM_DEF] : VECTOR [,WORD];
579 0653 2 LOCAL
580 0654 2 CONTROL_CHAR : BYTE,           ! char following ctrl
581 0655 2 MOVE_CHAR : BYTE;             ! code to place in cap string
582 0656 2
583 0657 2 !+
584 0658 2 The NAME capability should have preceeded this. Complain if it
585 0659 2 didn't.
586 0660 2 -
587 0661 2
588 0662 2 IF CAP_PTRS EQL 0
589 0663 2 THEN
590 0664 2     SIGNAL_STOP (SMG$_MISTERNAM);
591 0665 2
592 0666 2 !+
593 0667 2 Control must be followed by a valid character in order to constitute
594 0668 2 a control code. The character can be shifted or not (lower or upper

```

```

595 0669 2 | case).
596 0670 2 | Since we have already seen a control character, we can translate on
597 0671 2 | the second character in the control string.
598 0672 2 |
599 0673 2 |
600 0674 2 | CONTROL_CHAR = (.AP [TPASL_TOKENPTR]) <0,8>;
601 0675 2 |
602 0676 2 | + A control character is in the range 00 - 1F (hex) but is expressed as
603 0677 2 | 40 - 5F (hex). Strip off extra bit to get the control character.
604 0678 2 |
605 0679 2 |
606 0680 2 | MOVE_CHAR = .CONTROL_CHAR AND NOT (%X'40');
607 0681 2 |
608 0682 2 |
609 0683 2 | + We now have the byte which must be moved into the capability string.
610 0684 2 | This may not be the first byte of the string - check for saved characters
611 0685 2 | which have not been copied yet, and append in the control code.
612 0686 2 |
613 0687 2 |
614 0688 2 | CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER); ! copy saved string
615 0689 2 |
616 0690 2 | AP [PARAM_L_SAVED_TOKENCNT] = 1;
617 0691 2 | AP [PARAM_L_SAVED_TOKENSTR] = MOVE_CHAR; ! control char is now 'saved'
618 0692 2 |
619 0693 2 | CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER); ! append control char
620 0694 2 |
621 0695 2 | RETURN (SS$_NORMAL);
622 0696 2 |
623 0697 1 | END; ! end of routine CONVERT_CONTROL

```

```

.TITLE SMG$STRING_TABLES TPARSE tables for string capa
        bilities
.IDENT  \1-003\
.PSECT  _LIB$KEY1$,NOWRT, SHR, PIC,1

```

```

00000 ;TPASKEYSTO
        U.29: .BLKB 0
        44 4E 45 00000 ;TPASKEYST
        U.31: .ASCII \END\
        FF 00003 .BYTE -1
        00004 ;TPASKEYSTO
        U.34: .BLKB 0
        4E 41 45 4C 4F 4F 42 00004 ;TPASKEYST
        U.36: .ASCII \BOOLEAN\
        FF 0000B .BYTE -1
        0000C ;TPASKEYSTO
        U.39: .BLKB 0
        43 49 52 45 4D 55 4E 0000C ;TPASKEYST
        U.41: .ASCII \NUMERIC\
        FF 00013 .BYTE -1
        00014 ;TPASKEYSTO
        U.44: .BLKB 0
        47 4E 49 52 54 53 00014 ;TPASKEYST
        U.46: .ASCII \STRING\
        FF 0001A .BYTE -1

```


										FF 0035D	U.500: .ASCII	\KEY_E1\ .BYTE -1	:
										0035E	:TPASKEYSTO		:
											U.505: .BLKB	0	:
32	45	5F	59	45	4B					0035E	:TPASKEYST		:
											U.507: .ASCII	\KEY_E2\ .BYTE -1	:
										FF 00364	:TPASKEYSTO		:
										00365	:TPASKEYST		:
											U.512: .BLKB	0	:
33	45	5F	59	45	4B					00365	:TPASKEYST		:
											U.514: .ASCII	\KEY_E3\ .BYTE -1	:
										FF 0036B	:TPASKEYSTO		:
										0036C	:TPASKEYST		:
											U.519: .BLKB	0	:
34	45	5F	59	45	4B					0036C	:TPASKEYST		:
											U.521: .ASCII	\KEY_E4\ .BYTE -1	:
										FF 00372	:TPASKEYSTO		:
										00373	:TPASKEYST		:
											U.526: .BLKB	0	:
35	45	5F	59	45	4B					00373	:TPASKEYST		:
											U.528: .ASCII	\KEY_E5\ .BYTE -1	:
										FF 00379	:TPASKEYSTO		:
										0037A	:TPASKEYST		:
											U.533: .BLKB	0	:
36	45	5F	59	45	4B					0037A	:TPASKEYST		:
											U.535: .ASCII	\KEY_E6\ .BYTE -1	:
										FF 00380	:TPASKEYSTO		:
										00381	:TPASKEYST		:
52	45	54	4E	45	5F	59	45	4B		00381	:TPASKEYST		:
											U.540: .BLKB	0	:
											U.542: .ASCII	\KEY_ENTER\ .BYTE -1	:
										FF 0038A	:TPASKEYSTO		:
										0038B	:TPASKEYST		:
											U.547: .BLKB	0	:
31	46	5F	59	45	4B					0038B	:TPASKEYST		:
											U.549: .ASCII	\KEY_F1\ .BYTE -1	:
										FF 00391	:TPASKEYSTO		:
										00392	:TPASKEYST		:
											U.554: .BLKB	0	:
32	46	5F	59	45	4B					00392	:TPASKEYST		:
											U.556: .ASCII	\KEY_F2\ .BYTE -1	:
										FF 00398	:TPASKEYSTO		:
										00399	:TPASKEYST		:
											U.561: .BLKB	0	:
33	46	5F	59	45	4B					00399	:TPASKEYST		:
											U.563: .ASCII	\KEY_F3\ .BYTE -1	:
										FF 0039F	:TPASKEYSTO		:
										003A0	:TPASKEYST		:
											U.568: .BLKB	0	:
34	46	5F	59	45	4B					003A0	:TPASKEYST		:
											U.570: .ASCII	\KEY_F4\ .BYTE -1	:
										FF 003A6	:TPASKEYSTO		:
										003A7	:TPASKEYST		:
											U.575: .BLKB	0	:
35	46	5F	59	45	4B					003A7	:TPASKEYST		:
											U.577: .ASCII	\KEY_F5\ .BYTE -1	:
										FF 003AD	:TPASKEYSTO		:

31	31	46	5F	4C	45	42	41	4C	004DE	U.820: .BLKB 0 :TPASKEYST			
								FF	004E7	U.822: .ASCII \LABEL_F11\ .BYTE -1	:		
									004E8	:TPASKEYSTO	:		
32	31	46	5F	4C	45	42	41	4C	004E8	U.827: .BLKB 0 :TPASKEYST	:		
								FF	004F1	U.829: .ASCII \LABEL_F12\ .BYTE -1	:		
									004F2	:TPASKEYSTO	:		
33	31	46	5F	4C	45	42	41	4C	004F2	U.834: .BLKB 0 :TPASKEYST	:		
								FF	004FB	U.836: .ASCII \LABEL_F13\ .BYTE -1	:		
									004FC	:TPASKEYSTO	:		
34	31	46	5F	4C	45	42	41	4C	004FC	U.841: .BLKB 0 :TPASKEYST	:		
								FF	00505	U.843: .ASCII \LABEL_F14\ .BYTE -1	:		
									00506	:TPASKEYSTO	:		
35	31	46	5F	4C	45	42	41	4C	00506	U.848: .BLKB 0 :TPASKEYST	:		
								FF	0050F	U.850: .ASCII \LABEL_F15\ .BYTE -1	:		
									00510	:TPASKEYSTO	:		
36	31	46	5F	4C	45	42	41	4C	00510	U.855: .BLKB 0 :TPASKEYST	:		
								FF	00519	U.857: .ASCII \LABEL_F16\ .BYTE -1	:		
									0051A	:TPASKEYSTO	:		
37	31	46	5F	4C	45	42	41	4C	0051A	U.862: .BLKB 0 :TPASKEYST	:		
								FF	00523	U.864: .ASCII \LABEL_F17\ .BYTE -1	:		
									00524	:TPASKEYSTO	:		
38	31	46	5F	4C	45	42	41	4C	00524	U.869: .BLKB 0 :TPASKEYST	:		
								FF	0052D	U.871: .ASCII \LABEL_F18\ .BYTE -1	:		
									0052E	:TPASKEYSTO	:		
39	31	46	5F	4C	45	42	41	4C	0052E	U.876: .BLKB 0 :TPASKEYST	:		
								FF	00537	U.878: .ASCII \LABEL_F19\ .BYTE -1	:		
									00538	:TPASKEYSTO	:		
30	32	46	5F	4C	45	42	41	4C	00538	U.883: .BLKB 0 :TPASKEYST	:		
								FF	00541	U.885: .ASCII \LABEL_F20\ .BYTE -1	:		
									00542	:TPASKEYSTO	:		
52	41	48	43	5F	54	5F	54	46	45	4C	00542	U.890: .BLKB 0 :TPASKEYST	:
										FF	0054D	U.892: .ASCII \LEFT_T_CHAR\ .BYTE -1	:
										0054E	:TPASKEYSTO	:	
43	49	48	50	41	52	47	5F	46	4C	0054E	U.897: .BLKB 0 :TPASKEYST	:	


```

38 5F 52 54 53 5F 45 54 41 56 49 52 50 007E1 ;TPASKEYST
      U.1200: .ASCII \PRIVATE_STR_8\
      FF 007EE ;TPASKEYSTO .BYTE -1
      007EF ;TPASKEYSTO .BLKB 0
39 5F 52 54 53 5F 45 54 41 56 49 52 50 007EF ;TPASKEYST
      U.1205: .ASCII \PRIVATE_STR_9\
      FF 007FC ;TPASKEYSTO .BYTE -1
      007FD ;TPASKEYSTO .BLKB 0
30 31 5F 52 54 53 5F 45 54 41 56 49 52 50 007FD ;TPASKEYST
      U.1212: .ASCII \PRIVATE_STR_10\
      FF 0080B ;TPASKEYSTO .BYTE -1
      FF 0080C ;TPASKEYFILL U.1221: .BYTE -1

      .PSECT _LIB$STATES,NOWRT, SHR, PIC,1
00000 SMG$A_STRING_STATES::
      .BLKB 0
00000 BEGIN_SCAN:
      .BLKB 0
99F8 00000 ;TPATYPE U.2: .WORD -26120
0000* 00002 ;TPASUBEXP U.4: .WORD <<U.3-U.4>-2>
00000000* 00004 ;TPASACTION U.5: .LONG <<SMG$$NEXT_RECORD-U.5>-4>
0000* 00008 ;TPASTARGET U.6: .WORD <<BEGIN_SCAN-U.6>-2>
9021 0000A ;TPATYPE U.7: .WORD -28639
00000000* 0000C ;TPASACTION U.8: .LONG <<SMG$$NEXT_RECORD-U.8>-4>
0000* 00010 ;TPASTARGET U.9: .WORD <<BEGIN_SCAN-U.9>-2>
99F8 00012 ;TPATYPE U.10: .WORD -26120
0000* 00014 ;TPASUBEXP U.12: .WORD <<U.11-U.12>-2>
00000000* 00016 ;TPASACTION U.13: .LONG <<SMG$$BLANKS_OFF-U.13>-4>
0000* 0001A ;TPASTARGET U.14: .WORD <<BEGIN_SCAN-U.14>-2>
15F6 0001C ;TPATYPE U.15: .WORD 5622
FFFF 0001E ;TPASTARGET U.16: .WORD -1
00020 ;END_OF_LINE U.3: .BLKB 0
11F7 00020 ;TPATYPE U.17: .WORD 4599
FFFF 00022 ;TPASTARGET U.18: .WORD -1
1021 00024 ;TPATYPE U.19: .WORD 4129
FFFF 00026 ;TPASTARGET

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15F6	00028	U.20:	WORD	-1	:
		:TPASTYPE			:
FFFE	0002A	U.21:	WORD	5622	:
		:TPASTARGET			:
	0002C	U.22:	WORD	-2	:
		:CAPABILITY			:
99F8	0002C	U.11:	BLKB	0	:
		:TPASTYPE			:
0000*	0002E	U.23:	WORD	-26120	:
		:TPASSUBEXP			:
00000000*	00030	U.25:	WORD	<<U.24-U.25>-2>	:
		:TPASACTION			:
0000*	00034	U.26:	LONG	<<SMG\$\$BLANKS_OFF-U.26>-4>	:
		:TPASTARGET			:
1100	00036	U.28:	WORD	<<U.27-U.28>-2>	:
		:TPASTYPE			:
FFFE	00038	U.32:	WORD	4352	:
		:TPASTARGET			:
1101	0003A	U.33:	WORD	-2	:
		:TPASTYPE			:
FFFE	0003C	U.37:	WORD	4353	:
		:TPASTARGET			:
1102	0003E	U.38:	WORD	-2	:
		:TPASTYPE			:
FFFE	00040	U.42:	WORD	4354	:
		:TPASTARGET			:
1103	00042	U.43:	WORD	-2	:
		:TPASTYPE			:
0000*	00044	U.47:	WORD	4355	:
		:TPASTARGET			:
9104	00046	U.48:	WORD	<<BEGIN_SCAN-U.48>-2>	:
		:TPASTYPE			:
00000000*	00048	U.52:	WORD	-28412	:
		:TPASACTION			:
FFFE	0004C	U.53:	LONG	<<SMG\$\$MISSING_END-U.53>-4>	:
		:TPASTARGET			:
9105	0004E	U.54:	WORD	-2	:
		:TPASTYPE			:
00000000*	00050	U.58:	WORD	-28411	:
		:TPASACTION			:
FFFE	00054	U.59:	LONG	<<SMG\$\$MISSING_END-U.59>-4>	:
		:TPASTARGET			:
85F1	00056	U.60:	WORD	-2	:
		:TPASTYPE			:
00000000V	00058	U.61:	WORD	-31247	:
		:TPASACTION			:
	0005C	U.62:	LONG	<<NOT_STRING-U.62>-4>	:
		:STRING_NAME			:
7106	0005C	U.24:	BLKB	0	:
		:TPASTYPE			:
00000000*	0005E	U.67:	WORD	28934	:
		:TPASADDR			:
000001B9	00062	U.68:	LONG	<<SMG\$\$MASK_ADR-U.68>-4>	:
		:TPASMASK			:
FFFF	00066	U.69:	LONG	441	:
		:TPASTARGET			:
		U.70:	WORD	-1	:

7107	00068	;TPASTYPE			
		U.74:	.WORD	28935	:
00000000*	0006A	;TPASADDR			:
		U.75:	.LONG	<<SMG\$SMASK_ADR-U.75>-4>	:
000001BA	0006E	;TPASMASK			:
		U.76:	.LONG	442	:
FFFF	00072	;TPASTARGET			:
		U.77:	.WORD	-1	:
7108	00074	;TPASTYPE			:
		U.81:	.WORD	28936	:
00000000*	00076	;TPASADDR			:
		U.82:	.LONG	<<SMG\$SMASK_ADR-U.82>-4>	:
000001BB	0007A	;TPASMASK			:
		U.83:	.LONG	443	:
FFFF	0007E	;TPASTARGET			:
		U.84:	.WORD	-1	:
7109	00080	;TPASTYPE			:
		U.88:	.WORD	28937	:
00000000*	00082	;TPASADDR			:
		U.89:	.LONG	<<SMG\$SMASK_ADR-U.89>-4>	:
000001BC	00086	;TPASMASK			:
		U.90:	.LONG	444	:
FFFF	0008A	;TPASTARGET			:
		U.91:	.WORD	-1	:
710A	0008C	;TPASTYPE			:
		U.95:	.WORD	28938	:
00000000*	0008E	;TPASADDR			:
		U.96:	.LONG	<<SMG\$SMASK_ADR-U.96>-4>	:
000001BD	00092	;TPASMASK			:
		U.97:	.LONG	445	:
FFFF	00096	;TPASTARGET			:
		U.98:	.WORD	-1	:
710B	00098	;TPASTYPE			:
		U.102:	.WORD	28939	:
00000000*	0009A	;TPASADDR			:
		U.103:	.LONG	<<SMG\$SMASK_ADR-U.103>-4>	:
000001BE	0009E	;TPASMASK			:
		U.104:	.LONG	446	:
FFFF	000A2	;TPASTARGET			:
		U.105:	.WORD	-1	:
710C	000A4	;TPASTYPE			:
		U.109:	.WORD	28940	:
00000000*	000A6	;TPASADDR			:
		U.110:	.LONG	<<SMG\$SMASK_ADR-U.110>-4>	:
00000253	000AA	;TPASMASK			:
		U.111:	.LONG	595	:
FFFF	000AE	;TPASTARGET			:
		U.112:	.WORD	-1	:
710D	000B0	;TPASTYPE			:
		U.116:	.WORD	28941	:
00000000*	000B2	;TPASADDR			:
		U.117:	.LONG	<<SMG\$SMASK_ADR-U.117>-4>	:
000001BF	000B6	;TPASMASK			:
		U.118:	.LONG	447	:
FFFF	000BA	;TPASTARGET			:
		U.119:	.WORD	-1	:
710E	000BC	;TPASTYPE			:

00000000*	000BE	U.123:	.WORD	28942	:
		:TPASADDR			
000001C0	000C2	U.124:	.LONG	<<SMG\$SMASK_ADR-U.124>-4>	:
		:TPASMASK			
FFFF	000C6	U.125:	.LONG	448	:
		:TPASTARGET			
710F	000C8	U.126:	.WORD	-1	:
		:TPASTYPE			
00000000*	000CA	U.130:	.WORD	28943	:
		:TPASADDR			
000001C1	000CE	U.131:	.LONG	<<SMG\$SMASK_ADR-U.131>-4>	:
		:TPASMASK			
FFFF	000D2	U.132:	.LONG	449	:
		:TPASTARGET			
7110	000D4	U.133:	.WORD	-1	:
		:TPASTYPE			
00000000*	000D6	U.137:	.WORD	28944	:
		:TPASADDR			
000001C2	000DA	U.138:	.LONG	<<SMG\$SMASK_ADR-U.138>-4>	:
		:TPASMASK			
FFFF	000DE	U.139:	.LONG	450	:
		:TPASTARGET			
7111	000E0	U.140:	.WORD	-1	:
		:TPASTYPE			
00000000*	000E2	U.144:	.WORD	28945	:
		:TPASADDR			
00000249	000E6	U.145:	.LONG	<<SMG\$SMASK_ADR-U.145>-4>	:
		:TPASMASK			
FFFF	000EA	U.146:	.LONG	585	:
		:TPASTARGET			
7112	000EC	U.147:	.WORD	-1	:
		:TPASTYPE			
00000000*	000EE	U.151:	.WORD	28946	:
		:TPASADDR			
000001C3	000F2	U.152:	.LONG	<<SMG\$SMASK_ADR-U.152>-4>	:
		:TPASMASK			
FFFF	000F6	U.153:	.LONG	451	:
		:TPASTARGET			
7113	000F8	U.154:	.WORD	-1	:
		:TPASTYPE			
00000000*	000FA	U.158:	.WORD	28947	:
		:TPASADDR			
000001C4	000FE	U.159:	.LONG	<<SMG\$SMASK_ADR-U.159>-4>	:
		:TPASMASK			
FFFF	00102	U.160:	.LONG	452	:
		:TPASTARGET			
7114	00104	U.161:	.WORD	-1	:
		:TPASTYPE			
00000000*	00106	U.165:	.WORD	28948	:
		:TPASADDR			
000001C5	0010A	U.166:	.LONG	<<SMG\$SMASK_ADR-U.166>-4>	:
		:TPASMASK			
FFFF	0010E	U.167:	.LONG	453	:
		:TPASTARGET			
7115	00110	U.168:	.WORD	-1	:
		:TPASTYPE			
		U.172:	.WORD	28949	:

00000000*	00112	:TPASADDR					
		U.173:	.LONG	<<SMG\$SMASK_ADR-U.173>-4>		:	
0000024F	00116	:TPASMASK				:	
		U.174:	.LONG	591		:	
FFFF	0011A	:TPASTARGET				:	
		U.175:	.WORD	-1		:	
7116	0011C	:TPASTYPE				:	
		U.179:	.WORD	28950		:	
00000000*	0011E	:TPASADDR				:	
		U.180:	.LONG	<<SMG\$SMASK_ADR-U.180>-4>		:	
00000247	00122	:TPASMASK				:	
		U.181:	.LONG	583		:	
FFFF	00126	:TPASTARGET				:	
		U.182:	.WORD	-1		:	
7117	00128	:TPASTYPE				:	
		U.186:	.WORD	28951		:	
00000000*	0012A	:TPASADDR				:	
		U.187:	.LONG	<<SMG\$SMASK_ADR-U.187>-4>		:	
00000250	0012E	:TPASMASK				:	
		U.188:	.LONG	592		:	
FFFF	00132	:TPASTARGET				:	
		U.189:	.WORD	-1		:	
7118	00134	:TPASTYPE				:	
		U.193:	.WORD	28952		:	
00000000*	00136	:TPASADDR				:	
		U.194:	.LONG	<<SMG\$SMASK_ADR-U.194>-4>		:	
000001C6	0013A	:TPASMASK				:	
		U.195:	.LONG	454		:	
FFFF	0013E	:TPASTARGET				:	
		U.196:	.WORD	-1		:	
7119	00140	:TPASTYPE				:	
		U.200:	.WORD	28953		:	
00000000*	00142	:TPASADDR				:	
		U.201:	.LONG	<<SMG\$SMASK_ADR-U.201>-4>		:	
000001C7	00146	:TPASMASK				:	
		U.202:	.LONG	455		:	
FFFF	0014A	:TPASTARGET				:	
		U.203:	.WORD	-1		:	
711A	0014C	:TPASTYPE				:	
		U.207:	.WORD	28954		:	
00000000*	0014E	:TPASADDR				:	
		U.208:	.LONG	<<SMG\$SMASK_ADR-U.208>-4>		:	
000001C8	00152	:TPASMASK				:	
		U.209:	.LONG	456		:	
FFFF	00156	:TPASTARGET				:	
		U.210:	.WORD	-1		:	
711B	00158	:TPASTYPE				:	
		U.214:	.WORD	28955		:	
00000000*	0015A	:TPASADDR				:	
		U.215:	.LONG	<<SMG\$SMASK_ADR-U.215>-4>		:	
000001C9	0015E	:TPASMASK				:	
		U.216:	.LONG	457		:	
FFFF	00162	:TPASTARGET				:	
		U.217:	.WORD	-1		:	
711C	00164	:TPASTYPE				:	
		U.221:	.WORD	28956		:	
00000000*	00166	:TPASADDR				:	

000001CA	0016A	U.222: .LONG	<<SMG\$\$MASK_ADR-U.222>-4>	:
		:TPASMASK		:
FFFF	0016E	U.223: .LONG	458	:
		:TPASTARGET		:
711D	00170	U.224: .WORD	-1	:
		:TPASTYPE		:
00000000*	00172	U.228: .WORD	28957	:
		:TPASADDR		:
000001CB	00176	U.229: .LONG	<<SMG\$\$MASK_ADR-U.229>-4>	:
		:TPASMASK		:
FFFF	0017A	U.230: .LONG	459	:
		:TPASTARGET		:
711E	0017C	U.231: .WORD	-1	:
		:TPASTYPE		:
00000000*	0017E	U.235: .WORD	28958	:
		:TPASADDR		:
000001CC	00182	U.236: .LONG	<<SMG\$\$MASK_ADR-U.236>-4>	:
		:TPASMASK		:
FFFF	00186	U.237: .LONG	460	:
		:TPASTARGET		:
711F	00188	U.238: .WORD	-1	:
		:TPASTYPE		:
00000000*	0018A	U.242: .WORD	28959	:
		:TPASADDR		:
000001CD	0018E	U.243: .LONG	<<SMG\$\$MASK_ADR-U.243>-4>	:
		:TPASMASK		:
FFFF	00192	U.244: .LONG	461	:
		:TPASTARGET		:
7120	00194	U.245: .WORD	-1	:
		:TPASTYPE		:
00000000*	00196	U.249: .WORD	28960	:
		:TPASADDR		:
000001CE	0019A	U.250: .LONG	<<SMG\$\$MASK_ADR-U.250>-4>	:
		:TPASMASK		:
FFFF	0019E	U.251: .LONG	462	:
		:TPASTARGET		:
7121	001A0	U.252: .WORD	-1	:
		:TPASTYPE		:
00000000*	001A2	U.256: .WORD	28961	:
		:TPASADDR		:
000001CF	001A6	U.257: .LONG	<<SMG\$\$MASK_ADR-U.257>-4>	:
		:TPASMASK		:
FFFF	001AA	U.258: .LONG	463	:
		:TPASTARGET		:
7122	001AC	U.259: .WORD	-1	:
		:TPASTYPE		:
00000000*	001AE	U.263: .WORD	28962	:
		:TPASADDR		:
000001D0	001B2	U.264: .LONG	<<SMG\$\$MASK_ADR-U.264>-4>	:
		:TPASMASK		:
FFFF	001B6	U.265: .LONG	464	:
		:TPASTARGET		:
7123	001B8	U.266: .WORD	-1	:
		:TPASTYPE		:
00000000*	001BA	U.270: .WORD	28963	:
		:TPASADDR		:
		U.271: .LONG	<<SMG\$\$MASK_ADR-U.271>-4>	:

FFFF	00216	U.321: .LONG	472	:
		:TPAS\$TARGET		:
712B	00218	U.322: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	0021A	U.326: .WORD	28971	:
		:TPAS\$ADDR		:
000001D9	0021E	U.327: .LONG	<<SMG\$\$MASK_ADR-U.327>-4>	:
		:TPAS\$MASK		:
FFFF	00222	U.328: .LONG	473	:
		:TPAS\$TARGET		:
712C	00224	U.329: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	00226	U.333: .WORD	28972	:
		:TPAS\$ADDR		:
000001DA	0022A	U.334: .LONG	<<SMG\$\$MASK_ADR-U.334>-4>	:
		:TPAS\$MASK		:
FFFF	0022E	U.335: .LONG	474	:
		:TPAS\$TARGET		:
712D	00230	U.336: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	00232	U.340: .WORD	28973	:
		:TPAS\$ADDR		:
000001DB	00236	U.341: .LONG	<<SMG\$\$MASK_ADR-U.341>-4>	:
		:TPAS\$MASK		:
FFFF	0023A	U.342: .LONG	475	:
		:TPAS\$TARGET		:
712E	0023C	U.343: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	0023E	U.347: .WORD	28974	:
		:TPAS\$ADDR		:
0000024A	00242	U.348: .LONG	<<SMG\$\$MASK_ADR-U.348>-4>	:
		:TPAS\$MASK		:
FFFF	00246	U.349: .LONG	586	:
		:TPAS\$TARGET		:
712F	00248	U.350: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	0024A	U.354: .WORD	28975	:
		:TPAS\$ADDR		:
000001DC	0024E	U.355: .LONG	<<SMG\$\$MASK_ADR-U.355>-4>	:
		:TPAS\$MASK		:
FFFF	00252	U.356: .LONG	476	:
		:TPAS\$TARGET		:
7130	00254	U.357: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	00256	U.361: .WORD	28976	:
		:TPAS\$ADDR		:
000001DD	0025A	U.362: .LONG	<<SMG\$\$MASK_ADR-U.362>-4>	:
		:TPAS\$MASK		:
FFFF	0025E	U.363: .LONG	477	:
		:TPAS\$TARGET		:
7131	00260	U.364: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	00262	U.368: .WORD	28977	:
		:TPAS\$ADDR		:
0000024C	00266	U.369: .LONG	<<SMG\$\$MASK_ADR-U.369>-4>	:
		:TPAS\$MASK		:
		U.370: .LONG	588	:

7139	002C0	U.420: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	002C2	U.424: .WORD	28985	:
		:TPAS\$ADDR		:
000001E4	002C6	U.425: .LONG	<<SMG\$\$MASK_ADR-U.425>-4>	:
		:TPAS\$MASK		:
FFFF	002CA	U.426: .LONG	484	:
		:TPAS\$TARGET		:
713A	002CC	U.427: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	002CE	U.431: .WORD	28986	:
		:TPAS\$ADDR		:
000001E5	002D2	U.432: .LONG	<<SMG\$\$MASK_ADR-U.432>-4>	:
		:TPAS\$MASK		:
FFFF	002D6	U.433: .LONG	485	:
		:TPAS\$TARGET		:
713B	002D8	U.434: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	002DA	U.438: .WORD	28987	:
		:TPAS\$ADDR		:
000001E6	002DE	U.439: .LONG	<<SMG\$\$MASK_ADR-U.439>-4>	:
		:TPAS\$MASK		:
FFFF	002E2	U.440: .LONG	486	:
		:TPAS\$TARGET		:
713C	002E4	U.441: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	002E6	U.445: .WORD	28988	:
		:TPAS\$ADDR		:
000001E7	002EA	U.446: .LONG	<<SMG\$\$MASK_ADR-U.446>-4>	:
		:TPAS\$MASK		:
FFFF	002EE	U.447: .LONG	487	:
		:TPAS\$TARGET		:
713D	002F0	U.448: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	002F2	U.452: .WORD	28989	:
		:TPAS\$ADDR		:
000001E8	002F6	U.453: .LONG	<<SMG\$\$MASK_ADR-U.453>-4>	:
		:TPAS\$MASK		:
FFFF	002FA	U.454: .LONG	488	:
		:TPAS\$TARGET		:
713E	002FC	U.455: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	002FE	U.459: .WORD	28990	:
		:TPAS\$ADDR		:
000001E9	00302	U.460: .LONG	<<SMG\$\$MASK_ADR-U.460>-4>	:
		:TPAS\$MASK		:
FFFF	00306	U.461: .LONG	489	:
		:TPAS\$TARGET		:
713F	00308	U.462: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	0030A	U.466: .WORD	28991	:
		:TPAS\$ADDR		:
000001EA	0030E	U.467: .LONG	<<SMG\$\$MASK_ADR-U.467>-4>	:
		:TPAS\$MASK		:
FFFF	00312	U.468: .LONG	490	:
		:TPAS\$TARGET		:
		U.469: .WORD	-1	:

00000000*	0036A	U.522: .WORD	28999	:
		:TPAS\$ADDR		:
000001F2	0036E	U.523: .LONG	<<SMG\$\$MASK_ADR-U.523>-4>	:
		:TPAS\$MASK		:
FFFF	00372	U.524: .LONG	498	:
		:TPAS\$TARGET		:
7148	00374	U.525: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	00376	U.529: .WORD	29000	:
		:TPAS\$ADDR		:
000001F3	0037A	U.530: .LONG	<<SMG\$\$MASK_ADR-U.530>-4>	:
		:TPAS\$MASK		:
FFFF	0037E	U.531: .LONG	499	:
		:TPAS\$TARGET		:
7149	00380	U.532: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	00382	U.536: .WORD	29001	:
		:TPAS\$ADDR		:
000001F4	00386	U.537: .LONG	<<SMG\$\$MASK_ADR-U.537>-4>	:
		:TPAS\$MASK		:
FFFF	0038A	U.538: .LONG	500	:
		:TPAS\$TARGET		:
714A	0038C	U.539: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	0038E	U.543: .WORD	29002	:
		:TPAS\$ADDR		:
000001F5	00392	U.544: .LONG	<<SMG\$\$MASK_ADR-U.544>-4>	:
		:TPAS\$MASK		:
FFFF	00396	U.545: .LONG	501	:
		:TPAS\$TARGET		:
714B	00398	U.546: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	0039A	U.550: .WORD	29003	:
		:TPAS\$ADDR		:
000001F6	0039E	U.551: .LONG	<<SMG\$\$MASK_ADR-U.551>-4>	:
		:TPAS\$MASK		:
FFFF	003A2	U.552: .LONG	502	:
		:TPAS\$TARGET		:
714C	003A4	U.553: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	003A6	U.557: .WORD	29004	:
		:TPAS\$ADDR		:
000001F7	003AA	U.558: .LONG	<<SMG\$\$MASK_ADR-U.558>-4>	:
		:TPAS\$MASK		:
FFFF	003AE	U.559: .LONG	503	:
		:TPAS\$TARGET		:
714D	003B0	U.560: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	003B2	U.564: .WORD	29005	:
		:TPAS\$ADDR		:
000001F8	003B6	U.565: .LONG	<<SMG\$\$MASK_ADR-U.565>-4>	:
		:TPAS\$MASK		:
FFFF	003BA	U.566: .LONG	504	:
		:TPAS\$TARGET		:
714E	003BC	U.567: .WORD	-1	:
		:TPAS\$TYPE		:
		U.571: .WORD	29006	:

00000000*	003BE	:TPAS\$ADDR				
		U.572:	.LONG	<<SMG\$\$MASK_ADR-U.572>-4>		:
000001F9	003C2	:TPAS\$MASK				:
		U.573:	.LONG	505		:
FFFF	003C6	:TPAS\$TARGET				:
		U.574:	.WORD	-1		:
714F	003C8	:TPAS\$TYPE				:
		U.578:	.WORD	29007		:
00000000*	003CA	:TPAS\$ADDR				:
		U.579:	.LONG	<<SMG\$\$MASK_ADR-U.579>-4>		:
000001FA	003CE	:TPAS\$MASK				:
		U.580:	.LONG	506		:
FFFF	003D2	:TPAS\$TARGET				:
		U.581:	.WORD	-1		:
7150	003D4	:TPAS\$TYPE				:
		U.585:	.WORD	29008		:
00000000*	003D6	:TPAS\$ADDR				:
		U.586:	.LONG	<<SMG\$\$MASK_ADR-U.586>-4>		:
000001FB	003DA	:TPAS\$MASK				:
		U.587:	.LONG	507		:
FFFF	003DE	:TPAS\$TARGET				:
		U.588:	.WORD	-1		:
7151	003E0	:TPAS\$TYPE				:
		U.592:	.WORD	29009		:
00000000*	003E2	:TPAS\$ADDR				:
		U.593:	.LONG	<<SMG\$\$MASK_ADR-U.593>-4>		:
000001FC	003E6	:TPAS\$MASK				:
		U.594:	.LONG	508		:
FFFF	003EA	:TPAS\$TARGET				:
		U.595:	.WORD	-1		:
7152	003EC	:TPAS\$TYPE				:
		U.599:	.WORD	29010		:
00000000*	003EE	:TPAS\$ADDR				:
		U.600:	.LONG	<<SMG\$\$MASK_ADR-U.600>-4>		:
000001FD	003F2	:TPAS\$MASK				:
		U.601:	.LONG	509		:
FFFF	003F6	:TPAS\$TARGET				:
		U.602:	.WORD	-1		:
7153	003F8	:TPAS\$TYPE				:
		U.606:	.WORD	29011		:
00000000*	003FA	:TPAS\$ADDR				:
		U.607:	.LONG	<<SMG\$\$MASK_ADR-U.607>-4>		:
000001FE	003FE	:TPAS\$MASK				:
		U.608:	.LONG	510		:
FFFF	00402	:TPAS\$TARGET				:
		U.609:	.WORD	-1		:
7154	00404	:TPAS\$TYPE				:
		U.613:	.WORD	29012		:
00000000*	00406	:TPAS\$ADDR				:
		U.614:	.LONG	<<SMG\$\$MASK_ADR-U.614>-4>		:
000001FF	0040A	:TPAS\$MASK				:
		U.615:	.LONG	511		:
FFFF	0040E	:TPAS\$TARGET				:
		U.616:	.WORD	-1		:
7155	00410	:TPAS\$TYPE				:
		U.620:	.WORD	29013		:
00000000*	00412	:TPAS\$ADDR				:

00000200	00416	U.621: .LONG	<<SMG\$MASK_ADR-U.621>-4>	:
		:TPAS\$MASK		:
FFFF	0041A	U.622: .LONG	512	:
		:TPAS\$TARGET		:
7156	0041C	U.623: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	0041E	U.627: .WORD	29014	:
		:TPAS\$ADDR		:
00000201	00422	U.628: .LONG	<<SMG\$MASK_ADR-U.628>-4>	:
		:TPAS\$MASK		:
FFFF	00426	U.629: .LONG	513	:
		:TPAS\$TARGET		:
7157	00428	U.630: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	0042A	U.634: .WORD	29015	:
		:TPAS\$ADDR		:
00000202	0042E	U.635: .LONG	<<SMG\$MASK_ADR-U.635>-4>	:
		:TPAS\$MASK		:
FFFF	00432	U.636: .LONG	514	:
		:TPAS\$TARGET		:
7158	00434	U.637: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	00436	U.641: .WORD	29016	:
		:TPAS\$ADDR		:
00000203	0043A	U.642: .LONG	<<SMG\$MASK_ADR-U.642>-4>	:
		:TPAS\$MASK		:
FFFF	0043E	U.643: .LONG	515	:
		:TPAS\$TARGET		:
7159	00440	U.644: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	00442	U.648: .WORD	29017	:
		:TPAS\$ADDR		:
00000204	00446	U.649: .LONG	<<SMG\$MASK_ADR-U.649>-4>	:
		:TPAS\$MASK		:
FFFF	0044A	U.650: .LONG	516	:
		:TPAS\$TARGET		:
715A	0044C	U.651: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	0044E	U.655: .WORD	29018	:
		:TPAS\$ADDR		:
00000205	00452	U.656: .LONG	<<SMG\$MASK_ADR-U.656>-4>	:
		:TPAS\$MASK		:
FFFF	00456	U.657: .LONG	517	:
		:TPAS\$TARGET		:
715B	00458	U.658: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	0045A	U.662: .WORD	29019	:
		:TPAS\$ADDR		:
00000206	0045E	U.663: .LONG	<<SMG\$MASK_ADR-U.663>-4>	:
		:TPAS\$MASK		:
FFFF	00462	U.664: .LONG	518	:
		:TPAS\$TARGET		:
715C	00464	U.665: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	00466	U.669: .WORD	29020	:
		:TPAS\$ADDR		:
		U.670: .LONG	<<SMG\$MASK_ADR-U.670>-4>	:

00000207	0046A	:TPASMASK		
		U.671:	.LONG	519
FFFF	0046E	:TPASTARGET		
		U.672:	.WORD	-1
715D	00470	:TPASTYPE		
		U.676:	.WORD	29021
00000000*	00472	:TPASADDR		
		U.677:	.LONG	<<SMG\$\$MASK_ADR-U.677>-4>
00000208	00476	:TPASMASK		
		U.678:	.LONG	520
FFFF	0047A	:TPASTARGET		
		U.679:	.WORD	-1
715E	0047C	:TPASTYPE		
		U.683:	.WORD	29022
00000000*	0047E	:TPASADDR		
		U.684:	.LONG	<<SMG\$\$MASK_ADR-U.684>-4>
00000209	00482	:TPASMASK		
		U.685:	.LONG	521
FFFF	00486	:TPASTARGET		
		U.686:	.WORD	-1
715F	00488	:TPASTYPE		
		U.690:	.WORD	29023
00000000*	0048A	:TPASADDR		
		U.691:	.LONG	<<SMG\$\$MASK_ADR-U.691>-4>
0000020A	0048E	:TPASMASK		
		U.692:	.LONG	522
FFFF	00492	:TPASTARGET		
		U.693:	.WORD	-1
7160	00494	:TPASTYPE		
		U.697:	.WORD	29024
00000000*	00496	:TPASADDR		
		U.698:	.LONG	<<SMG\$\$MASK_ADR-U.698>-4>
0000020B	0049A	:TPASMASK		
		U.699:	.LONG	523
FFFF	0049E	:TPASTARGET		
		U.700:	.WORD	-1
7161	004A0	:TPASTYPE		
		U.704:	.WORD	29025
00000000*	004A2	:TPASADDR		
		U.705:	.LONG	<<SMG\$\$MASK_ADR-U.705>-4>
0000020C	004A6	:TPASMASK		
		U.706:	.LONG	524
FFFF	004AA	:TPASTARGET		
		U.707:	.WORD	-1
7162	004AC	:TPASTYPE		
		U.711:	.WORD	29026
00000000*	004AE	:TPASADDR		
		U.712:	.LONG	<<SMG\$\$MASK_ADR-U.712>-4>
0000020D	004B2	:TPASMASK		
		U.713:	.LONG	525
FFFF	004B6	:TPASTARGET		
		U.714:	.WORD	-1
7163	004B8	:TPASTYPE		
		U.718:	.WORD	29027
00000000*	004BA	:TPASADDR		
		U.719:	.LONG	<<SMG\$\$MASK_ADR-U.719>-4>
0000020E	004BE	:TPASMASK		

FFFF	004C2	U.720: .LONG	526	:
		:TPAS\$TARGET		:
7164	004C4	U.721: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	004C6	U.725: .WORD	29028	:
		:TPAS\$ADDR		:
0000020F	004CA	U.726: .LONG	<<SMG\$\$MASK_ADR-U.726>-4>	:
		:TPAS\$MASK		:
FFFF	004CE	U.727: .LONG	527	:
		:TPAS\$TARGET		:
7165	004D0	U.728: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	004D2	U.732: .WORD	29029	:
		:TPAS\$ADDR		:
00000210	004D6	U.733: .LONG	<<SMG\$\$MASK_ADR-U.733>-4>	:
		:TPAS\$MASK		:
FFFF	004DA	U.734: .LONG	528	:
		:TPAS\$TARGET		:
7166	004DC	U.735: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	004DE	U.739: .WORD	29030	:
		:TPAS\$ADDR		:
00000211	004E2	U.740: .LONG	<<SMG\$\$MASK_ADR-U.740>-4>	:
		:TPAS\$MASK		:
FFFF	004E6	U.741: .LONG	529	:
		:TPAS\$TARGET		:
7167	004E8	U.742: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	004EA	U.746: .WORD	29031	:
		:TPAS\$ADDR		:
00000212	004EE	U.747: .LONG	<<SMG\$\$MASK_ADR-U.747>-4>	:
		:TPAS\$MASK		:
FFFF	004F2	U.748: .LONG	530	:
		:TPAS\$TARGET		:
7168	004F4	U.749: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	004F6	U.753: .WORD	29032	:
		:TPAS\$ADDR		:
00000213	004FA	U.754: .LONG	<<SMG\$\$MASK_ADR-U.754>-4>	:
		:TPAS\$MASK		:
FFFF	004FE	U.755: .LONG	531	:
		:TPAS\$TARGET		:
7169	00500	U.756: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	00502	U.760: .WORD	29033	:
		:TPAS\$ADDR		:
00000214	00506	U.761: .LONG	<<SMG\$\$MASK_ADR-U.761>-4>	:
		:TPAS\$MASK		:
FFFF	0050A	U.762: .LONG	532	:
		:TPAS\$TARGET		:
716A	0050C	U.763: .WORD	-1	:
		:TPAS\$TYPE		:
00000000*	0050E	U.767: .WORD	29034	:
		:TPAS\$ADDR		:
00000215	00512	U.768: .LONG	<<SMG\$\$MASK_ADR-U.768>-4>	:
		:TPAS\$MASK		:
		U.769: .LONG	533	:

FFFF	00516	:TPASTARGET			
		U.770: .WORD	-1		:
716B	00518	:TPASTYPE			:
		U.774: .WORD	29035		:
00000000*	0051A	:TPASADDR			:
		U.775: .LONG	<<SMG\$MASK_ADR-U.775>-4>		:
00000216	0051E	:TPASMASK			:
		U.776: .LONG	534		:
FFFF	00522	:TPASTARGET			:
		U.777: .WORD	-1		:
716C	00524	:TPASTYPE			:
		U.781: .WORD	29036		:
00000000*	00526	:TPASADDR			:
		U.782: .LONG	<<SMG\$MASK_ADR-U.782>-4>		:
00000217	0052A	:TPASMASK			:
		U.783: .LONG	535		:
FFFF	0052E	:TPASTARGET			:
		U.784: .WORD	-1		:
716D	00530	:TPASTYPE			:
		U.788: .WORD	29037		:
00000000*	00532	:TPASADDR			:
		U.789: .LONG	<<SMG\$MASK_ADR-U.789>-4>		:
00000218	00536	:TPASMASK			:
		U.790: .LONG	536		:
FFFF	0053A	:TPASTARGET			:
		U.791: .WORD	-1		:
716E	0053C	:TPASTYPE			:
		U.795: .WORD	29038		:
00000000*	0053E	:TPASADDR			:
		U.796: .LONG	<<SMG\$MASK_ADR-U.796>-4>		:
00000219	00542	:TPASMASK			:
		U.797: .LONG	537		:
FFFF	00546	:TPASTARGET			:
		U.798: .WORD	-1		:
716F	00548	:TPASTYPE			:
		U.802: .WORD	29039		:
00000000*	0054A	:TPASADDR			:
		U.803: .LONG	<<SMG\$MASK_ADR-U.803>-4>		:
0000021A	0054E	:TPASMASK			:
		U.804: .LONG	538		:
FFFF	00552	:TPASTARGET			:
		U.805: .WORD	-1		:
7170	00554	:TPASTYPE			:
		U.809: .WORD	29040		:
00000000*	00556	:TPASADDR			:
		U.810: .LONG	<<SMG\$MASK_ADR-U.810>-4>		:
0000021B	0055A	:TPASMASK			:
		U.811: .LONG	539		:
FFFF	0055E	:TPASTARGET			:
		U.812: .WORD	-1		:
7171	00560	:TPASTYPE			:
		U.816: .WORD	29041		:
00000000*	00562	:TPASADDR			:
		U.817: .LONG	<<SMG\$MASK_ADR-U.817>-4>		:
0000021C	00566	:TPASMASK			:
		U.818: .LONG	540		:
FFFF	0056A	:TPASTARGET			:

7172	0056C	U.819: .WORD	-1	:
		;TPAS\$TYPE		:
00000000*	0056E	U.823: .WORD	29042	:
		;TPAS\$ADDR		:
0000021D	00572	U.824: .LONG	<<SMG\$\$MASK_ADR-U.824>-4>	:
		;TPAS\$MASK		:
FFFF	00576	U.825: .LONG	541	:
		;TPAS\$TARGET		:
7173	00578	U.826: .WORD	-1	:
		;TPAS\$TYPE		:
00000000*	0057A	U.830: .WORD	29043	:
		;TPAS\$ADDR		:
0000021E	0057E	U.831: .LONG	<<SMG\$\$MASK_ADR-U.831>-4>	:
		;TPAS\$MASK		:
FFFF	00582	U.832: .LONG	542	:
		;TPAS\$TARGET		:
7174	00584	U.833: .WORD	-1	:
		;TPAS\$TYPE		:
00000000*	00586	U.837: .WORD	29044	:
		;TPAS\$ADDR		:
0000021F	0058A	U.838: .LONG	<<SMG\$\$MASK_ADR-U.838>-4>	:
		;TPAS\$MASK		:
FFFF	0058E	U.839: .LONG	543	:
		;TPAS\$TARGET		:
7175	00590	U.840: .WORD	-1	:
		;TPAS\$TYPE		:
00000000*	00592	U.844: .WORD	29045	:
		;TPAS\$ADDR		:
00000220	00596	U.845: .LONG	<<SMG\$\$MASK_ADR-U.845>-4>	:
		;TPAS\$MASK		:
FFFF	0059A	U.846: .LONG	544	:
		;TPAS\$TARGET		:
7176	0059C	U.847: .WORD	-1	:
		;TPAS\$TYPE		:
00000000*	0059E	U.851: .WORD	29046	:
		;TPAS\$ADDR		:
00000221	005A2	U.852: .LONG	<<SMG\$\$MASK_ADR-U.852>-4>	:
		;TPAS\$MASK		:
FFFF	005A6	U.853: .LONG	545	:
		;TPAS\$TARGET		:
7177	005A8	U.854: .WORD	-1	:
		;TPAS\$TYPE		:
00000000*	005AA	U.858: .WORD	29047	:
		;TPAS\$ADDR		:
00000222	005AE	U.859: .LONG	<<SMG\$\$MASK_ADR-U.859>-4>	:
		;TPAS\$MASK		:
FFFF	005B2	U.860: .LONG	546	:
		;TPAS\$TARGET		:
7178	005B4	U.861: .WORD	-1	:
		;TPAS\$TYPE		:
00000000*	005B6	U.865: .WORD	29048	:
		;TPAS\$ADDR		:
00000223	005BA	U.866: .LONG	<<SMG\$\$MASK_ADR-U.866>-4>	:
		;TPAS\$MASK		:
FFFF	005BE	U.867: .LONG	547	:
		;TPAS\$TARGET		:
		U.868: .WORD	-1	:

7179	005C0	;TPATYPE				
		U.872:	.WORD	29049		:
00000000*	005C2	;TPASADDR				:
		U.873:	.LONG	<<SMG\$MASK_ADR-U.873>-4>		:
00000224	005C6	;TPASMASK				:
		U.874:	.LONG	548		:
FFFF	005CA	;TPASTARGET				:
		U.875:	.WORD	-1		:
717A	005CC	;TPATYPE				:
		U.879:	.WORD	29050		:
00000000*	005CE	;TPASADDR				:
		U.880:	.LONG	<<SMG\$MASK_ADR-U.880>-4>		:
00000225	005D2	;TPASMASK				:
		U.881:	.LONG	549		:
FFFF	005D6	;TPASTARGET				:
		U.882:	.WORD	-1		:
717B	005D8	;TPATYPE				:
		U.886:	.WORD	29051		:
00000000*	005DA	;TPASADDR				:
		U.887:	.LONG	<<SMG\$MASK_ADR-U.887>-4>		:
00000226	005DE	;TPASMASK				:
		U.888:	.LONG	550		:
FFFF	005E2	;TPASTARGET				:
		U.889:	.WORD	-1		:
717C	005E4	;TPATYPE				:
		U.893:	.WORD	29052		:
00000000*	005E6	;TPASADDR				:
		U.894:	.LONG	<<SMG\$MASK_ADR-U.894>-4>		:
00000227	005EA	;TPASMASK				:
		U.895:	.LONG	551		:
FFFF	005EE	;TPASTARGET				:
		U.896:	.WORD	-1		:
717D	005F0	;TPATYPE				:
		U.900:	.WORD	29053		:
00000000*	005F2	;TPASADDR				:
		U.901:	.LONG	<<SMG\$MASK_ADR-U.901>-4>		:
0000024B	005F6	;TPASMASK				:
		U.902:	.LONG	587		:
FFFF	005FA	;TPASTARGET				:
		U.903:	.WORD	-1		:
717E	005FC	;TPATYPE				:
		U.907:	.WORD	29054		:
00000000*	005FE	;TPASADDR				:
		U.908:	.LONG	<<SMG\$MASK_ADR-U.908>-4>		:
00000228	00602	;TPASMASK				:
		U.909:	.LONG	552		:
FFFF	00606	;TPASTARGET				:
		U.910:	.WORD	-1		:
717F	00608	;TPATYPE				:
		U.914:	.WORD	29055		:
00000000*	0060A	;TPASADDR				:
		U.915:	.LONG	<<SMG\$MASK_ADR-U.915>-4>		:
00000229	0060E	;TPASMASK				:
		U.916:	.LONG	553		:
FFFF	00612	;TPASTARGET				:
		U.917:	.WORD	-1		:
7180	00614	;TPATYPE				:

00000000*	00616	U.921: .WORD	29056	:
		;TPASADDR		
0000022A	0061A	U.922: .LONG	<<SMG\$MASK_ADR-U.922>-4>	:
		;TPASMASK		
FFFF	0061E	U.923: .LONG	554	:
		;TPASTARGET		
7181	00620	U.924: .WORD	-1	:
		;TPASTYPE		
00000000*	00622	U.928: .WORD	29057	:
		;TPASADDR		
0000022B	00626	U.929: .LONG	<<SMG\$MASK_ADR-U.929>-4>	:
		;TPASMASK		
FFFF	0062A	U.930: .LONG	555	:
		;TPASTARGET		
7182	0062C	U.931: .WORD	-1	:
		;TPASTYPE		
00000000*	0062E	U.935: .WORD	29058	:
		;TPASADDR		
0000022C	00632	U.936: .LONG	<<SMG\$MASK_ADR-U.936>-4>	:
		;TPASMASK		
FFFF	00636	U.937: .LONG	556	:
		;TPASTARGET		
7183	00638	U.938: .WORD	-1	:
		;TPASTYPE		
00000000*	0063A	U.942: .WORD	29059	:
		;TPASADDR		
0000022D	0063E	U.943: .LONG	<<SMG\$MASK_ADR-U.943>-4>	:
		;TPASMASK		
FFFF	00642	U.944: .LONG	557	:
		;TPASTARGET		
7184	00644	U.945: .WORD	-1	:
		;TPASTYPE		
00000000*	00646	U.949: .WORD	29060	:
		;TPASADDR		
00000248	0064A	U.950: .LONG	<<SMG\$MASK_ADR-U.950>-4>	:
		;TPASMASK		
FFFF	0064E	U.951: .LONG	584	:
		;TPASTARGET		
7185	00650	U.952: .WORD	-1	:
		;TPASTYPE		
00000000*	00652	U.956: .WORD	29061	:
		;TPASADDR		
0000022E	00656	U.957: .LONG	<<SMG\$MASK_ADR-U.957>-4>	:
		;TPASMASK		
FFFF	0065A	U.958: .LONG	558	:
		;TPASTARGET		
7186	0065C	U.959: .WORD	-1	:
		;TPASTYPE		
00000000*	0065E	U.963: .WORD	29062	:
		;TPASADDR		
00000252	00662	U.964: .LONG	<<SMG\$MASK_ADR-U.964>-4>	:
		;TPASMASK		
FFFF	00666	U.965: .LONG	594	:
		;TPASTARGET		
7187	00668	U.966: .WORD	-1	:
		;TPASTYPE		
		U.970: .WORD	29063	:

00000000*	0066A	;TPASADDR				
		U.971:	.LONG	<<SMG\$SMASK_ADR-U.971>-4>		:
0000022F	0066E	;TPASMASK				:
		U.972:	.LONG	559		:
FFFF	00672	;TPASTARGET				:
		U.973:	.WORD	-1		:
7188	00674	;TPASTYPE				:
		U.977:	.WORD	29064		:
00000000*	00676	;TPASADDR				:
		U.978:	.LONG	<<SMG\$SMASK_ADR-U.978>-4>		:
00000230	0067A	;TPASMASK				:
		U.979:	.LONG	560		:
FFFF	0067E	;TPASTARGET				:
		U.980:	.WORD	-1		:
7189	00680	;TPASTYPE				:
		U.984:	.WORD	29065		:
00000000*	00682	;TPASADDR				:
		U.985:	.LONG	<<SMG\$SMASK_ADR-U.985>-4>		:
00000231	00686	;TPASMASK				:
		U.986:	.LONG	561		:
FFFF	0068A	;TPASTARGET				:
		U.987:	.WORD	-1		:
718A	0068C	;TPASTYPE				:
		U.991:	.WORD	29066		:
00000000*	0068E	;TPASADDR				:
		U.992:	.LONG	<<SMG\$SMASK_ADR-U.992>-4>		:
00000232	00692	;TPASMASK				:
		U.993:	.LONG	562		:
FFFF	00696	;TPASTARGET				:
		U.994:	.WORD	-1		:
718B	00698	;TPASTYPE				:
		U.998:	.WORD	29067		:
00000000*	0069A	;TPASADDR				:
		U.999:	.LONG	<<SMG\$SMASK_ADR-U.999>-4>		:
00000233	0069E	;TPASMASK				:
		U.1000:	.LONG	563		:
FFFF	006A2	;TPASTARGET				:
		U.1001:	.WORD	-1		:
718C	006A4	;TPASTYPE				:
		U.1005:	.WORD	29068		:
00000000*	006A6	;TPASADDR				:
		U.1006:	.LONG	<<SMG\$SMASK_ADR-U.1006>-4>		:
00000234	006AA	;TPASMASK				:
		U.1007:	.LONG	564		:
FFFF	006AE	;TPASTARGET				:
		U.1008:	.WORD	-1		:
718D	006B0	;TPASTYPE				:
		U.1012:	.WORD	29069		:
00000000*	006B2	;TPASADDR				:
		U.1013:	.LONG	<<SMG\$SMASK_ADR-U.1013>-4>		:
00000235	006B6	;TPASMASK				:
		U.1014:	.LONG	565		:
FFFF	006BA	;TPASTARGET				:
		U.1015:	.WORD	-1		:
718E	006BC	;TPASTYPE				:
		U.1019:	.WORD	29070		:
00000000*	006BE	;TPASADDR				:

00000236	006C2	U.1020: .LONG	<<SMG\$SMASK_ADR-U.1020>-4>	:
		;TPASMASK		
	FFFF	U.1021: .LONG	566	:
		;TPASTARGET		
	718F	U.1022: .WORD	-1	:
		;TPASTYPE		
00000000*	006CA	U.1026: .WORD	29071	:
		;TPASADDR		
00000237	006CE	U.1027: .LONG	<<SMG\$SMASK_ADR-U.1027>-4>	:
		;TPASMASK		
	FFFF	U.1028: .LONG	567	:
		;TPASTARGET		
	7190	U.1029: .WORD	-1	:
		;TPASTYPE		
00000000*	006D6	U.1033: .WORD	29072	:
		;TPASADDR		
00000238	006DA	U.1034: .LONG	<<SMG\$SMASK_ADR-U.1034>-4>	:
		;TPASMASK		
	FFFF	U.1035: .LONG	568	:
		;TPASTARGET		
	7191	U.1036: .WORD	-1	:
		;TPASTYPE		
00000000*	006E2	U.1040: .WORD	29073	:
		;TPASADDR		
00000239	006E6	U.1041: .LONG	<<SMG\$SMASK_ADR-U.1041>-4>	:
		;TPASMASK		
	FFFF	U.1042: .LONG	569	:
		;TPASTARGET		
	7192	U.1043: .WORD	-1	:
		;TPASTYPE		
00000000*	006EE	U.1047: .WORD	29074	:
		;TPASADDR		
0000023A	006F2	U.1048: .LONG	<<SMG\$SMASK_ADR-U.1048>-4>	:
		;TPASMASK		
	FFFF	U.1049: .LONG	570	:
		;TPASTARGET		
	7193	U.1050: .WORD	-1	:
		;TPASTYPE		
00000000*	006FA	U.1054: .WORD	29075	:
		;TPASADDR		
0000023B	006FE	U.1055: .LONG	<<SMG\$SMASK_ADR-U.1055>-4>	:
		;TPASMASK		
	FFFF	U.1056: .LONG	571	:
		;TPASTARGET		
	7194	U.1057: .WORD	-1	:
		;TPASTYPE		
00000000*	00706	U.1061: .WORD	29076	:
		;TPASADDR		
0000023C	0070A	U.1062: .LONG	<<SMG\$SMASK_ADR-U.1062>-4>	:
		;TPASMASK		
	FFFF	U.1063: .LONG	572	:
		;TPASTARGET		
	7195	U.1064: .WORD	-1	:
		;TPASTYPE		
00000000*	00712	U.1068: .WORD	29077	:
		;TPASADDR		
		U.1069: .LONG	<<SMG\$SMASK_ADR-U.1069>-4>	:

0000023D	00716	:TPASMASK				
		U.1070:	LONG	573		:
FFFF	0071A	:TPASTARGET				:
		U.1071:	WORD	-1		:
7196	0071C	:TPASTYPE				:
		U.1075:	WORD	29078		:
00000000*	0071E	:TPASADDR				:
		U.1076:	LONG	<<SMG\$SMASK_ADR-U.1076>-4>		:
0000023E	00722	:TPASMASK				:
		U.1077:	LONG	574		:
FFFF	00726	:TPASTARGET				:
		U.1078:	WORD	-1		:
7197	00728	:TPASTYPE				:
		U.1082:	WORD	29079		:
00000000*	0072A	:TPASADDR				:
		U.1083:	LONG	<<SMG\$SMASK_ADR-U.1083>-4>		:
0000023F	0072E	:TPASMASK				:
		U.1084:	LONG	575		:
FFFF	00732	:TPASTARGET				:
		U.1085:	WORD	-1		:
7198	00734	:TPASTYPE				:
		U.1089:	WORD	29080		:
00000000*	00736	:TPASADDR				:
		U.1090:	LONG	<<SMG\$SMASK_ADR-U.1090>-4>		:
00000240	0073A	:TPASMASK				:
		U.1091:	LONG	576		:
FFFF	0073E	:TPASTARGET				:
		U.1092:	WORD	-1		:
7199	00740	:TPASTYPE				:
		U.1096:	WORD	29081		:
00000000*	00742	:TPASADDR				:
		U.1097:	LONG	<<SMG\$SMASK_ADR-U.1097>-4>		:
0000024E	00746	:TPASMASK				:
		U.1098:	LONG	590		:
FFFF	0074A	:TPASTARGET				:
		U.1099:	WORD	-1		:
719A	0074C	:TPASTYPE				:
		U.1103:	WORD	29082		:
00000000*	0074E	:TPASADDR				:
		U.1104:	LONG	<<SMG\$SMASK_ADR-U.1104>-4>		:
00000241	00752	:TPASMASK				:
		U.1105:	LONG	577		:
FFFF	00756	:TPASTARGET				:
		U.1106:	WORD	-1		:
719B	00758	:TPASTYPE				:
		U.1110:	WORD	29083		:
00000000*	0075A	:TPASADDR				:
		U.1111:	LONG	<<SMG\$SMASK_ADR-U.1111>-4>		:
00000242	0075E	:TPASMASK				:
		U.1112:	LONG	578		:
FFFF	00762	:TPASTARGET				:
		U.1113:	WORD	-1		:
719C	00764	:TPASTYPE				:
		U.1117:	WORD	29084		:
00000000*	00766	:TPASADDR				:
		U.1118:	LONG	<<SMG\$SMASK_ADR-U.1118>-4>		:
00000243	0076A	:TPASMASK				:

FFFF	0076E	U.1119: .LONG	579	:
		:TPASTARGET		:
719D	00770	U.1120: .WORD	-1	:
		:TPASTYPE		:
00000000*	00772	U.1124: .WORD	29085	:
		:TPASADDR		:
00000244	00776	U.1125: .LONG	<<SMG\$SMASK_ADR-U.1125>-4>	:
		:TPASMASK		:
FFFF	0077A	U.1126: .LONG	580	:
		:TPASTARGET		:
719E	0077C	U.1127: .WORD	-1	:
		:TPASTYPE		:
00000000*	0077E	U.1131: .WORD	29086	:
		:TPASADDR		:
0000024D	00782	U.1132: .LONG	<<SMG\$SMASK_ADR-U.1132>-4>	:
		:TPASMASK		:
FFFF	00786	U.1133: .LONG	589	:
		:TPASTARGET		:
719F	00788	U.1134: .WORD	-1	:
		:TPASTYPE		:
00000000*	0078A	U.1138: .WORD	29087	:
		:TPASADDR		:
00000245	0078E	U.1139: .LONG	<<SMG\$SMASK_ADR-U.1139>-4>	:
		:TPASMASK		:
FFFF	00792	U.1140: .LONG	581	:
		:TPASTARGET		:
71A0	00794	U.1141: .WORD	-1	:
		:TPASTYPE		:
00000000*	00796	U.1145: .WORD	29088	:
		:TPASADDR		:
00000246	0079A	U.1146: .LONG	<<SMG\$SMASK_ADR-U.1146>-4>	:
		:TPASMASK		:
FFFF	0079E	U.1147: .LONG	582	:
		:TPASTARGET		:
71A1	007A0	U.1148: .WORD	-1	:
		:TPASTYPE		:
00000000*	007A2	U.1152: .WORD	29089	:
		:TPASADDR		:
0000028B	007A6	U.1153: .LONG	<<SMG\$SMASK_ADR-U.1153>-4>	:
		:TPASMASK		:
FFFF	007AA	U.1154: .LONG	651	:
		:TPASTARGET		:
71A2	007AC	U.1155: .WORD	-1	:
		:TPASTYPE		:
00000000*	007AE	U.1159: .WORD	29090	:
		:TPASADDR		:
0000028C	007B2	U.1160: .LONG	<<SMG\$SMASK_ADR-U.1160>-4>	:
		:TPASMASK		:
FFFF	007B6	U.1161: .LONG	652	:
		:TPASTARGET		:
71A3	007B8	U.1162: .WORD	-1	:
		:TPASTYPE		:
00000000*	007BA	U.1166: .WORD	29091	:
		:TPASADDR		:
0000028D	007BE	U.1167: .LONG	<<SMG\$SMASK_ADR-U.1167>-4>	:
		:TPASMASK		:
		U.1168: .LONG	653	:

FFFF	007C2	;TPASTARGET				
		U.1169: .WORD	-1			:
71A4	007C4	;TPASTYPE				:
		U.1173: .WORD	29092			:
00000000*	007C6	;TPASADDR				:
		U.1174: .LONG	<<SMG\$SMASK_ADR-U.1174>-4>			:
0000028E	007CA	;TPASMASK				:
		U.1175: .LONG	654			:
FFFF	007CE	;TPASTARGET				:
		U.1176: .WORD	-1			:
71A5	007D0	;TPASTYPE				:
		U.1180: .WORD	29093			:
00000000*	007D2	;TPASADDR				:
		U.1181: .LONG	<<SMG\$SMASK_ADR-U.1181>-4>			:
0000028F	007D6	;TPASMASK				:
		U.1182: .LONG	655			:
FFFF	007DA	;TPASTARGET				:
		U.1183: .WORD	-1			:
71A6	007DC	;TPASTYPE				:
		U.1187: .WORD	29094			:
00000000*	007DE	;TPASADDR				:
		U.1188: .LONG	<<SMG\$SMASK_ADR-U.1188>-4>			:
00000290	007E2	;TPASMASK				:
		U.1189: .LONG	656			:
FFFF	J07E6	;TPASTARGET				:
		U.1190: .WORD	-1			:
71A7	007E8	;TPASTYPE				:
		U.1194: .WORD	29095			:
00000000*	007EA	;TPASADDR				:
		U.1195: .LONG	<<SMG\$SMASK_ADR-U.1195>-4>			:
00000291	007EE	;TPASMASK				:
		U.1196: .LONG	657			:
FFFF	007F2	;TPASTARGET				:
		U.1197: .WORD	-1			:
71A8	007F4	;TPASTYPE				:
		U.1201: .WORD	29096			:
00000000*	007F6	;TPASADDR				:
		U.1202: .LONG	<<SMG\$SMASK_ADR-U.1202>-4>			:
00000292	007FA	;TPASMASK				:
		U.1203: .LONG	658			:
FFFF	007FE	;TPASTARGET				:
		U.1204: .WORD	-1			:
71A9	00800	;TPASTYPE				:
		U.1208: .WORD	29097			:
00000000*	00802	;TPASADDR				:
		U.1209: .LONG	<<SMG\$SMASK_ADR-U.1209>-4>			:
00000293	00806	;TPASMASK				:
		U.1210: .LONG	659			:
FFFF	0080A	;TPASTARGET				:
		U.1211: .WORD	-1			:
71AA	0080C	;TPASTYPE				:
		U.1215: .WORD	29098			:
00000000*	0080E	;TPASADDR				:
		U.1216: .LONG	<<SMG\$SMASK_ADR-U.1216>-4>			:
00000294	00812	;TPASMASK				:
		U.1217: .LONG	660			:
FFFF	00816	;TPASTARGET				:

15F6	00818	U.1218: .WORD	-1	:
		:TPASTYPE		:
FFFE	0081A	U.1219: .WORD	5622	:
		:TPASTARGET		:
	0081C	U.1220: .WORD	-2	:
		:EQUALS_STRING		:
99F8	0081C	U.27: .BLKB	0	:
		:TPASTYPE		:
0000*	0081E	U.1222: .WORD	-26120	:
		:TPASSUBEXP		:
00000000*	00820	U.1223: .WORD	<<U.3-U.1223>-2>	:
		:TPASACTION		:
0000*	00824	U.1224: .LONG	<<SMG\$\$NEXT_RECORD-U.1224>-4>	:
		:TPASTARGET		:
903D	00826	U.1225: .WORD	<<U.27-U.1225>-2>	:
		:TPASTYPE		:
00000000*	00828	U.1226: .WORD	-28611	:
		:TPASACTION		:
0000*	0082C	U.1227: .LONG	<<SMG\$\$STORE_CAP_MASK-U.1227>-4>	:
		:TPASTARGET		:
81F1	0082E	U.1229: .WORD	<<U.1228-U.1229>-2>	:
		:TPASTYPE		:
00000000*	00830	U.1230: .WORD	-32271	:
		:TPASACTION		:
85ED	00834	U.1231: .LONG	<<SMG\$\$SYNTAX_ERROR-U.1231>-4>	:
		:TPASTYPE		:
00000000*	00836	U.1232: .WORD	-31251	:
		:TPASACTION		:
	0083A	U.1233: .LONG	<<SMG\$\$SYNTAX_ERROR-U.1233>-4>	:
		:STRING_CAP_VALUE		:
99F8	0083A	U.1228: .BLRB	0	:
		:TPASTYPE		:
0000*	0083C	U.1234: .WORD	-26120	:
		:TPASSUBEXP		:
00000000*	0083E	U.1235: .WORD	<<U.3-U.1235>-2>	:
		:TPASACTION		:
0000*	00842	U.1236: .LONG	<<SMG\$\$NEXT_RECORD-U.1236>-4>	:
		:TPASTARGET		:
19F8	00844	U.1237: .WORD	<<U.1228-U.1237>-2>	:
		:TPASTYPE		:
0000*	00846	U.1238: .WORD	6648	:
		:TPASSUBEXP		:
0000*	00848	U.1240: .WORD	<<U.1239-U.1240>-2>	:
		:TPASTARGET		:
81F1	0084A	U.1241: .WORD	<<BEGIN_SCAN-U.1241>-2>	:
		:TPASTYPE		:
00000000*	0084C	U.1242: .WORD	-32271	:
		:TPASACTION		:
85ED	00850	U.1243: .LONG	<<SMG\$\$SYNTAX_ERROR-U.1243>-4>	:
		:TPASTYPE		:
00000000*	00852	U.1244: .WORD	-31251	:
		:TPASACTION		:
	00856	U.1245: .LONG	<<SMG\$\$SYNTAX_ERROR-U.1245>-4>	:
		:COMMA: .BLKB		:
902C	00856	U.1246: .WORD	0	:
		:TPASTYPE		:
00000000*	00858	U.1246: .WORD	-28628	:
		:TPASACTION		:

FFFF	0085C	U.1247: .LONG	<<SMG\$\$BLANKS_OFF-U.1247>-4>	:
		:TPASTARGET		:
91F2	0085E	U.1248: .WORD	-1	:
		:TPASTYPE		:
00000000*	00860	U.1249: .WORD	-28174	:
		:TPASACTION		:
0000*	00864	U.1250: .LONG	<<SMG\$\$BLANKS_OFF-U.1250>-4>	:
		:TPASTARGET		:
99F8	00866	U.1251: .WORD	<<COMMA-U.1251>-2>	:
		:TPASTYPE		:
0000*	00868	U.1252: .WORD	-26120	:
		:TPASSUBEXP		:
00000000*	0086A	U.1253: .WORD	<<U.3-U.1253>-2>	:
		:TPASACTION		:
FFFF	0086E	U.1254: .LONG	<<SMG\$\$NEXT_RECORD-U.1254>-4>	:
		:TPASTARGET		:
85ED	00870	U.1255: .WORD	-1	:
		:TPASTYPE		:
00000000*	00872	U.1256: .WORD	-31251	:
		:TPASACTION		:
	00876	U.1257: .LONG	<<SMG\$\$SYNTAX_ERROR-U.1257>-4>	:
		:STRING_CAP		:
9027	00876	U.1239: .BLKB	0	:
		:TPASTYPE		:
00000000*	00878	U.1258: .WORD	-28633	:
		:TPASACTION		:
0000*	0087C	U.1259: .LONG	<<SMG\$\$BLANKS_ON-U.1259>-4>	:
		:TPASTARGET		:
9022	0087E	U.1261: .WORD	<<U.1260-U.1261>-2>	:
		:TPASTYPE		:
00000000*	00880	U.1262: .WORD	-28638	:
		:TPASACTION		:
0000*	00884	U.1263: .LONG	<<SMG\$\$BLANKS_ON-U.1263>-4>	:
		:TPASTARGET		:
15ED	00886	U.1265: .WORD	<<U.1264-U.1265>-2>	:
		:TPASTYPE		:
FFFE	00888	U.1266: .WORD	5613	:
		:TPASTARGET		:
	0088A	U.1267: .WORD	-2	:
		:SINGLE_QUOTE_STRING		:
19F8	0088A	U.1260: .BLKB	0	:
		:TPASTYPE		:
0000*	0088C	U.1268: .WORD	6648	:
		:TPASSUBEXP		:
0000*	0088E	U.1270: .WORD	<<U.1269-U.1270>-2>	:
		:TPASTARGET		:
9024	00890	U.1271: .WORD	<<U.1260-U.1271>-2>	:
		:TPASTYPE		:
00000000V	00892	U.1272: .WORD	-28636	:
		:TPASACTION		:
0000*	00896	U.1273: .LONG	<<CONVERT_ESCAPE-U.1273>-4>	:
		:TPASTARGET		:
19F8	00898	U.1274: .WORD	<<U.1260-U.1274>-2>	:
		:TPASTYPE		:
0000*	0089A	U.1275: .WORD	6648	:
		:TPASSUBEXP		:
		U.1277: .WORD	<<U.1276-U.1277>-2>	:

0000*	0089C	:TPASTARGET				
		U.1278: .WORD	<<U.1260-U.1278>-2>		:	
19F8	0089E	:TPASTYPE			:	
		U.1279: .WORD	6648		:	
0000*	008A0	:TPASSUBEXP			:	
		U.1281: .WORD	<<U.1280-U.1281>-2>		:	
0000*	008A2	:TPASTARGET			:	
		U.1282: .WORD	<<U.1260-U.1282>-2>		:	
19F8	008A4	:TPASTYPE			:	
		U.1283: .WORD	6648		:	
0000*	008A6	:TPASSUBEXP			:	
		U.1285: .WORD	<<U.1284-U.1285>-2>		:	
0000*	008A8	:TPASTARGET			:	
		U.1286: .WORD	<<U.1260-U.1286>-2>		:	
9027	008AA	:TPASTYPE			:	
		U.1287: .WORD	-28633		:	
00000000*	008AC	:TPASACTION			:	
		U.1288: .LONG	<<SMG\$\$COPY_CAP-U.1288>-4>		:	
0000*	008B0	:TPASTARGET			:	
		U.1289: .WORD	<<COMMA-U.1289>-2>		:	
91F2	008B2	:TPASTYPE			:	
		U.1290: .WORD	-28174		:	
00000000*	008B4	:TPASACTION			:	
		U.1291: .LONG	<<SMG\$\$SAVE_TOKEN_STRING-U.1291>-4>		:	
0000*	008B8	:TPASTARGET			:	
		U.1292: .WORD	<<U.1260-U.1292>-2>		:	
8022	008BA	:TPASTYPE			:	
		U.1293: .WORD	-32734		:	
00000000*	008BC	:TPASACTION			:	
		U.1294: .LONG	<<SMG\$\$SYNTAX_ERROR-U.1294>-4>		:	
91ED	008C0	:TPASTYPE			:	
		U.1295: .WORD	-28179		:	
00000000*	008C2	:TPASACTION			:	
		U.1296: .LONG	<<SMG\$\$SAVE_TOKEN_STRING-U.1296>-4>		:	
0000*	008C6	:TPASTARGET			:	
		U.1297: .WORD	<<U.1260-U.1297>-2>		:	
15F6	008C8	:TPASTYPE			:	
		U.1298: .WORD	5622		:	
FFFF	008CA	:TPASTARGET			:	
		U.1299: .WORD	-1		:	
	008CC	:DOUBLE_QUOTE_STRING			:	
		U.1264: .BLKB	0		:	
19F8	008CC	:TPASTYPE			:	
		U.1300: .WORD	6648		:	
0000*	008CE	:TPASSUBEXP			:	
		U.1301: .WORD	<<U.1269-U.1301>-2>		:	
0000*	008D0	:TPASTARGET			:	
		U.1302: .WORD	<<U.1264-U.1302>-2>		:	
9024	008D2	:TPASTYPE			:	
		U.1303: .WORD	-28636		:	
00000000V	008D4	:TPASACTION			:	
		U.1304: .LONG	<<CONVERT_ESCAPE-U.1304>-4>		:	
0000*	008D8	:TPASTARGET			:	
		U.1305: .WORD	<<U.1264-U.1305>-2>		:	
19F8	008DA	:TPASTYPE			:	
		U.1306: .WORD	6648		:	
0000*	008DC	:TPASSUBEXP			:	

0000*	008DE	U.1307: .WORD	<<U.1276-U.1307>-2>	:
		;TPASTARGET		:
19F8	008E0	U.1308: .WORD	<<U.1264-U.1308>-2>	:
		;TPASTYPE		:
0000*	008E2	U.1309: .WORD	6648	:
		;TPASSUBEXP		:
0000*	008E4	U.1310: .WORD	<<U.1280-U.1310>-2>	:
		;TPASTARGET		:
19F8	008E6	U.1311: .WORD	<<U.1264-U.1311>-2>	:
		;TPASTYPE		:
0000*	008E8	U.1312: .WORD	6648	:
		;TPASSUBEXP		:
0000*	008EA	U.1313: .WORD	<<U.1284-U.1313>-2>	:
		;TPASTARGET		:
9022	008EC	U.1314: .WORD	<<U.1264-U.1314>-2>	:
		;TPASTYPE		:
00000000*	008EE	U.1315: .WORD	-28638	:
		;TPASACTION		:
0000*	008F2	U.1316: .LONG	<<SMG\$COPY_CAP-U.1316>-4>	:
		;TPASTARGET		:
91F2	008F4	U.1317: .WORD	<<COMMA-U.1317>-2>	:
		;TPASTYPE		:
00000000*	008F6	U.1318: .WORD	-28174	:
		;TPASACTION		:
0000*	008FA	U.1319: .LONG	<<SMG\$SAVE_TOKEN_STRING-U.1319>-4>	:
		;TPASTARGET		:
8027	008FC	U.1320: .WORD	<<U.1264-U.1320>-2>	:
		;TPASTYPE		:
00000000*	008FE	U.1321: .WORD	-32729	:
		;TPASACTION		:
91ED	00902	U.1322: .LONG	<<SMG\$SYNTAX_ERROR-U.1322>-4>	:
		;TPASTYPE		:
00000000*	00904	U.1323: .WORD	-28179	:
		;TPASACTION		:
0000*	00908	U.1324: .LONG	<<SMG\$SAVE_TOKEN_STRING-U.1324>-4>	:
		;TPASTARGET		:
15F6	0090A	U.1325: .WORD	<<U.1264-U.1325>-2>	:
		;TPASTYPE		:
FFFF	0090C	U.1326: .WORD	5622	:
		;TPASTARGET		:
		U.1327: .WORD	-1	:
	0090E	;UNDERSCORE		:
105F	0090E	U.1269: .BLKB	0	:
		;TPASTYPE		:
0000*	00910	U.1328: .WORD	4191	:
		;TPASTARGET		:
15F6	00912	U.1330: .WORD	<<U.1329-U.1330>-2>	:
		;TPASTYPE		:
FFFE	00914	U.1331: .WORD	5622	:
		;TPASTARGET		:
		U.1332: .WORD	-2	:
	00916	;UNDERSCORE2		:
		U.1329: .BLKB	0	:
9024	00916	;TPASTYPE		:
00000000V	00918	U.1333: .WORD	-28636	:
		;TPASACTION		:
		U.1334: .LONG	<<INSERT_DOLLAR-U.1334>-4>	:

FFFF	0091C	:TPASTARGET	
		U.1335: .WORD	-1
905E	0091E	:TPASTYPE	
		U.1336: .WORD	-28578
00000000V	00920	:TPASACTION	
		U.1337: .LONG	<<INSERT_CARROT-U.1337>-4>
FFFF	00924	:TPASTARGET	
		U.1338: .WORD	-1
9021	00926	:TPASTYPE	
		U.1339: .WORD	-28639
00000000V	00928	:TPASACTION	
		U.1340: .LONG	<<INSERT_EXCLAMATION-U.1340>-4>
FFFF	0092C	:TPASTARGET	
		U.1341: .WORD	-1
9028	0092E	:TPASTYPE	
		U.1342: .WORD	-28632
00000000V	00930	:TPASACTION	
		U.1343: .LONG	<<INSERT_PARENTHESES-U.1343>-4>
FFFF	00934	:TPASTARGET	
		U.1344: .WORD	-1
15F6	00936	:TPASTYPE	
		U.1345: .WORD	5622
FFFE	00938	:TPASTARGET	
		U.1346: .WORD	-2
	0093A	:CARROT	
		U.1276: .BLKB	0
105E	0093A	:TPASTYPE	
		U.1347: .WORD	4190
0000*	0093C	:TPASTARGET	
		U.1349: .WORD	<<U.1348-U.1349>-2>
15F6	0093E	:TPASTYPE	
		U.1350: .WORD	5622
FFFE	00940	:TPASTARGET	
		U.1351: .WORD	-2
	00942	:CONTROL_CHAR	
		U.1348: .BLKB	0
95ED	00942	:TPASTYPE	
		U.1352: .WORD	-27155
00000000*	00944	:TPASACTION	
		U.1353: .LONG	<<CONVERT_CONTROL-U.1353>-4>
FFFF	00948	:TPASTARGET	
		U.1354: .WORD	-1
	0094A	:FAO STRING	
		U.1280: .BLKB	0
8021	0094A	:TPASTYPE	
		U.1355: .WORD	-32735
00000000*	0094C	:TPASACTION	
		U.1356: .LONG	<<SMG\$\$\$SAVE_TOKEN_STRING-U.1356>-4>
15F6	00950	:TPASTYPE	
		U.1357: .WORD	5622
FFFE	00952	:TPASTARGET	
		U.1358: .WORD	-2
8055	00954	:TPASTYPE	
		U.1359: .WORD	-32683
00000000*	00956	:TPASACTION	
		U.1360: .LONG	<<SMG\$\$\$SAVE_TOKEN_STRING-U.1360>-4>
91F1	0095A	:TPASTYPE	

00000000V	0095C	U.1361: .WORD	-28175	:
		:TPASACTION		:
FFFE	00960	U.1362: .LONG	<<INVALID_DIRECTIVE-U.1362>-4>	:
		:TPASTARGET		:
95ED	00962	U.1363: .WORD	-2	:
		:TPASTYPE		:
00000000V	00964	U.1364: .WORD	-27155	:
		:TPASACTION		:
FFFE	00968	U.1365: .LONG	<<INVALID_DIRECTIVE-U.1365>-4>	:
		:TPASTARGET		:
F04C	0096A	U.1366: .WORD	-2	:
		:TPASTYPE		:
00000000*	0096C	U.1367: .WORD	-4020	:
		:TPASACTION		:
00000000*	00970	U.1368: .LONG	<<SMG\$\$\$SAVE_TOKEN_STRING-U.1368>-4>	:
		:TPASADDR		:
FFFFFFFF	00974	U.1369: .LONG	<<SMG\$\$\$MASK_ADR-U.1369>-4>	:
		:TPASMASK		:
FFFF	00978	U.1370: .LONG	-1	:
		:TPASTARGET		:
91F1	0097A	U.1371: .WORD	-1	:
		:TPASTYPE		:
00000000V	0097C	U.1372: .WORD	-28175	:
		:TPASACTION		:
FFFE	00980	U.1373: .LONG	<<INVALID_DIRECTIVE-U.1373>-4>	:
		:TPASTARGET		:
95ED	00982	U.1374: .WORD	-2	:
		:TPASTYPE		:
00000000V	00984	U.1375: .WORD	-27155	:
		:TPASACTION		:
FFFE	00988	U.1376: .LONG	<<INVALID_DIRECTIVE-U.1376>-4>	:
		:TPASTARGET		:
	0098A	U.1377: .WORD	-2	:
		:ARITH_CAP		:
9028	0098A	U.1284: .BLKB	0	:
		:TPASTYPE		:
00000000V	0098C	U.1378: .WORD	-28632	:
		:TPASACTION		:
0000*	00990	U.1379: .LONG	<<INIT_ARITH_CAP-U.1379>-4>	:
		:TPASTARGET		:
11F2	00992	U.1381: .WORD	<<U.1380-U.1381>-2>	:
		:TPASTYPE		:
0000*	00994	U.1382: .WORD	4594	:
		:TPASTARGET		:
15F6	00996	U.1383: .WORD	<<U.1284-U.1383>-2>	:
		:TPASTYPE		:
FFFFE	00998	U.1384: .WORD	5622	:
		:TPASTARGET		:
	0099A	U.1385: .WORD	-2	:
		:ARITH_CAP2		:
19F8	0099A	U.1380: .BLKB	0	:
		:TPASTYPE		:
0000*	0099C	U.1386: .WORD	6648	:
		:TPASSUBEXP		:
FFFF	0099E	U.1388: .WORD	<<U.1387-U.1388>-2>	:
		:TPASTARGET		:
		U.1389: .WORD	-1	:

15F6	009A0	;TPASTYPE				
		U.1390: .WORD	5622			:
FFFE	009A2	;TPASTARGET				:
		U.1391: .WORD	-2			:
	009A4	OPERATOR:				:
		.BLKB	0			:
702B	009A4	;TPASTYPE				:
		U.1392: .WORD	28715			:
00000000*	009A6	;TPAS\$ADDR				:
		U.1393: .LONG	<<SMG\$\$MASK_ADR-U.1393>-4>			:
FFFFFFFB	009AA	;TPAS\$MASK				:
		U.1394: .LONG	-5			:
0000*	009AE	;TPASTARGET				:
		U.1395: .WORD	<<U.1387-U.1395>-2>			:
702D	009B0	;TPASTYPE				:
		U.1396: .WORD	28717			:
00000000*	009B2	;TPAS\$ADDR				:
		U.1397: .LONG	<<SMG\$\$MASK_ADR-U.1397>-4>			:
FFFFFFFA	009B6	;TPAS\$MASK				:
		U.1398: .LONG	-6			:
0000*	009BA	;TPASTARGET				:
		U.1399: .WORD	<<U.1387-U.1399>-2>			:
702A	009BC	;TPASTYPE				:
		U.1400: .WORD	28714			:
00000000*	009BE	;TPAS\$ADDR				:
		U.1401: .LONG	<<SMG\$\$MASK_ADR-U.1401>-4>			:
FFFFFFF9	009C2	;TPAS\$MASK				:
		U.1402: .LONG	-7			:
0000*	009C6	;TPASTARGET				:
		U.1403: .WORD	<<U.1387-U.1403>-2>			:
702F	009C8	;TPASTYPE				:
		U.1404: .WORD	28719			:
00000000*	009CA	;TPAS\$ADDR				:
		U.1405: .LONG	<<SMG\$\$MASK_ADR-U.1405>-4>			:
FFFFFFF8	009CE	;TPAS\$MASK				:
		U.1406: .LONG	-8			:
0000*	009D2	;TPASTARGET				:
		U.1407: .WORD	<<U.1387-U.1407>-2>			:
9029	009D4	;TPASTYPE				:
		U.1408: .WORD	-28631			:
00000000V	009D6	;TPAS\$ACTION				:
		U.1409: .LONG	<<END_ARITH_CAP-U.1409>-4>			:
FFFF	009DA	;TPASTARGET				:
		U.1410: .WORD	-1			:
85ED	009DC	;TPASTYPE				:
		U.1411: .WORD	-31251			:
00000000V	009DE	;TPAS\$ACTION				:
		U.1412: .LONG	<<EXPRESSION_ERROR-U.1412>-4>			:
	009E2	;OPERAND				:
		U.1387: .BLKB	0			:
91F3	009E2	;TPASTYPE				:
		U.1413: .WORD	-28173			:
00000000V	009E4	;TPAS\$ACTION				:
		U.1414: .LONG	<<STORE_OPERAND-U.1414>-4>			:
0000*	009E8	;TPASTARGET				:
		U.1415: .WORD	<<OPERATOR-U.1415>-2>			:
19F8	009EA	;TPASTYPE				:

```
0000* 009EC U.1416: .WORD 6648  
;TPASSUBEXP  
0000* 009EE U.1418: .WORD <<U.1417-U.1418>-2>  
;TPASTARGET  
81F1 009F0 U.1419: .WORD <<OPERATOR-U.1419>-2>  
;TPASTYPE  
00000000V 009F2 U.1420: .WORD -32271  
;TPASACTION  
85ED 009F6 U.1421: .LONG <<EXPRESSION_ERROR-U.1421>-4>  
;TPASTYPE  
00000000V 009F8 U.1422: .WORD -31251  
;TPASACTION  
009FC U.1423: .LONG <<EXPRESSION_ERROR-U.1423>-4>  
;SUBSTITUTION  
0025 009FC U.1417: .BLKB 0  
;TPASTYPE  
15F6 009FE U.1424: .WORD 37  
;TPASTYPE  
FFFE 00A00 U.1425: .WORD 5622  
;TPASTARGET  
91F3 00A02 U.1426: .WORD -2  
;TPASTYPE  
00000000V 00A04 U.1427: .WORD -28173  
;TPASACTION  
FFFF 00A08 U.1428: .LONG <<STORE_SUBSTITUTION-U.1428>-4>  
;TPASTARGET  
85ED 00A0A U.1429: .WORD -1  
;TPASTYPE  
00000000V 00A0C U.1430: .WORD -31251  
;TPASACTION  
U.1431: .LONG <<EXPRESSION_ERROR-U.1431>-4>
```

.PSECT _LIB\$KEY0\$,NOWRT, SHR, PIC,1

```
00000 SMG$SA_STRING_KEYWDS::  
;TPASKEY0  
00000 U.1: .BLKB 0  
0000* 00000 ;TPASKEY  
U.30: .WORD <U.29-U.1>  
0000* 00002 ;TPASKEY  
U.35: .WORD <U.34-U.1>  
0000* 00004 ;TPASKEY  
U.40: .WORD <U.39-U.1>  
0000* 00006 ;TPASKEY  
U.45: .WORD <U.44-U.1>  
0000* 00008 ;TPASKEY  
U.50: .WORD <U.49-U.1>  
0000* 0000A ;TPASKEY  
U.56: .WORD <U.55-U.1>  
0000* 0000C ;TPASKEY  
U.65: .WORD <U.64-U.1>  
0000* 0000E ;TPASKEY  
U.72: .WORD <U.71-U.1>  
0000* 00010 ;TPASKEY  
U.79: .WORD <U.78-U.1>  
0000* 00012 ;TPASKEY
```


0000*	000BE	;TPASKEY				
		U.688:	.WORD	<U.687-U.1>		:
0000*	000C0	;TPASKEY				:
		U.695:	.WORD	<U.694-U.1>		:
0000*	000C2	;TPASKEY				:
		U.702:	.WORD	<U.701-U.1>		:
0000*	000C4	;TPASKEY				:
		U.709:	.WORD	<U.708-U.1>		:
0000*	000C6	;TPASKEY				:
		U.716:	.WORD	<U.715-U.1>		:
0000*	000C8	;TPASKEY				:
		U.723:	.WORD	<U.722-U.1>		:
0000*	000CA	;TPASKEY				:
		U.730:	.WORD	<U.729-U.1>		:
0000*	000CC	;TPASKEY				:
		U.737:	.WORD	<U.736-U.1>		:
0000*	000CE	;TPASKEY				:
		U.744:	.WORD	<U.743-U.1>		:
0000*	000D0	;TPASKEY				:
		U.751:	.WORD	<U.750-U.1>		:
0000*	000D2	;TPASKEY				:
		U.758:	.WORD	<U.757-U.1>		:
0000*	000D4	;TPASKEY				:
		U.765:	.WORD	<U.764-U.1>		:
0000*	000D6	;TPASKEY				:
		U.772:	.WORD	<U.771-U.1>		:
0000*	000D8	;TPASKEY				:
		U.779:	.WORD	<U.778-U.1>		:
0000*	000DA	;TPASKEY				:
		U.786:	.WORD	<U.785-U.1>		:
0000*	000DC	;TPASKEY				:
		U.793:	.WORD	<U.792-U.1>		:
0000*	000DE	;TPASKEY				:
		U.800:	.WORD	<U.799-U.1>		:
0000*	000E0	;TPASKEY				:
		U.807:	.WORD	<U.806-U.1>		:
0000*	000E2	;TPASKEY				:
		U.814:	.WORD	<U.813-U.1>		:
0000*	000E4	;TPASKEY				:
		U.821:	.WORD	<U.820-U.1>		:
0000*	000E6	;TPASKEY				:
		U.828:	.WORD	<U.827-U.1>		:
0000*	000E8	;TPASKEY				:
		U.835:	.WORD	<U.834-U.1>		:
0000*	000EA	;TPASKEY				:
		U.842:	.WORD	<U.841-U.1>		:
0000*	000EC	;TPASKEY				:
		U.849:	.WORD	<U.848-U.1>		:
0000*	000EE	;TPASKEY				:
		U.856:	.WORD	<U.855-U.1>		:
0000*	000F0	;TPASKEY				:
		U.863:	.WORD	<U.862-U.1>		:
0000*	000F2	;TPASKEY				:
		U.870:	.WORD	<U.869-U.1>		:
0000*	000F4	;TPASKEY				:
		U.877:	.WORD	<U.876-U.1>		:
0000*	000F6	;TPASKEY				:

0004 00000 CONVERT_CONTROL:

	52	00000000G	00	9E	00002	.WORD	Save R2	:	0613
	5E		04	C2	00009	MOVAB	SMG\$\$FLUSH_SAVED_BUFFER, R2	:	
		48	AC	D5	0000C	SUBL2	#4, SP	:	
			0D	12	0000F	TSTL	72(AP)	:	0662
		00000000G	00	9F	00011	BNEQ	1\$:	
	00000000G	00	01	FB	00017	PUSHAB	SMG\$ MISTERNAM	:	0664
	50	14	BC	90	0001E	CALLS	#1, [IB\$STOP	:	
6E	50	40	8F	8B	00022	MOVAB	@20(AP), CONTROL_CHAR	:	0674
	62		6C	FA	00027	BICB3	#64, CONTROL_CHAR, MOVE_CHAR	:	0680
	54	AC	01	D0	0002A	CALLG	(AP), SMG\$\$FLUSH_SAVED_BUFFER	:	0688
	58	AC	6E	9E	0002E	MOVL	#1, 84(AP)	:	0690
	62		6C	FA	00032	MOVAB	MOVE_CHAR, 88(AP)	:	0691
	50		01	D0	00035	CALLG	(AP), SMG\$\$FLUSH_SAVED_BUFFER	:	0693
			04	00038		MOVL	#1, R0	:	0695
						RET		:	0697

; Routine Size: 57 bytes, Routine Base: _SMG\$CODE + 0000

```

: 625 0698 1 %SBTTL 'CONVERT_ESCAPE - Convert $ to escape character'
: 626 0699 1 ROUTINE CONVERT_ESCAPE =
: 627 0700 1
: 628 0701 1 !+
: 629 0702 1 ! FUNCTIONAL DESCRIPTION:
: 630 0703 1
: 631 0704 1     Stores an escape character in the current capability string in
: 632 0705 1     TERMTABLE.EXE.
: 633 0706 1
: 634 0707 1 ! CALLING SEQUENCE:
: 635 0708 1
: 636 0709 1     status = CONVERT_ESCAPE ()
: 637 0710 1
: 638 0711 1 ! FORMAL PARAMETERS:
: 639 0712 1
: 640 0713 1     NONE
: 641 0714 1
: 642 0715 1 ! IMPLICIT INPUTS:
: 643 0716 1
: 644 0717 1     AP     Points to TPARSE parameter block
: 645 0718 1
: 646 0719 1 ! IMPLICIT OUTPUTS:
: 647 0720 1
: 648 0721 1     NONE
: 649 0722 1
: 650 0723 1 ! COMPLETION STATUS:
: 651 0724 1
: 652 0725 1     SSS_NORMAL
: 653 0726 1
: 654 0727 1 ! SIDE EFFECTS:
: 655 0728 1
: 656 0729 1 ! --
: 657 0730 1
: 658 0731 2     BEGIN
: 659 0732 2     BUILTIN
: 660 0733 2     CALLG,
: 661 0734 2     AP;
: 662 0735 2     MAP
: 663 0736 2     AP : REF BLOCK [,BYTE];
: 664 0737 2     LITERAL
: 665 0738 2     K_ESCAPE = %X'1B';
: 666 0739 2     BIND
: 667 0740 2     CAP_PTRS = .AP [PARAM_L_CUR_TERM_DEF] : VECTOR [,WORD];
: 668 0741 2
: 669 0742 2 !+
: 670 0743 2 ! The NAME capability should have preceeded this. Complain if it didn't.
: 671 0744 2 ! -
: 672 0745 2
: 673 0746 2     IF CAP_PTRS EQL 0
: 674 0747 2     THEN
: 675 0748 2     SIGNAL_STOP (SMG$_MISTERNAM);
: 676 0749 2
: 677 0750 2 !+
: 678 0751 2 ! Move an escape character into the capability string instead of
: 679 0752 2 ! the $.
: 680 0753 2
: 681 0754 2 ! Part of the string may already be copied - append in this part so

```

```

: 682      0755 2  ! as not to overwrite it.
: 683      0756 2  !-
: 684      0757 2  !-
: 685      0758 2  CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER);
: 686      0759 2  !-
: 687      0760 2  !+
: 688      0761 2  ! Insert the escape character.
: 689      0762 2  !-
: 690      0763 2  !-
: 691      0764 2  AP [PARAM_L_SAVED_TOKENCNT] = 1;
: 692      0765 2  AP [PARAM_L_SAVED_TOKENSTR] = UPLIT (BYTE (K_ESCAPE));
: 693      0766 2  ! escape now 'saved'
: 694      0767 2  CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER);
: 695      0768 2  !-
: 696      0769 2  RETURN (SS$_NORMAL);
: 697      0770 2  !-
: 698      0771 1  END;                                     ! end of routine CONVERT_ESCAPE

```

00039 .BLKB 3
1B 0003C P.AAA: .BYTE 27

```

0004 0000 CONVERT_ESCAPE:
: 0699
: 0746
: 0748
: 0758
: 0764
: 0765
: 0767
: 0769
: 0771

```

52	00000000G	00	9E	00002	.WORD	Save R2	
	48	AC	D5	00009	MOVAB	SMG\$\$FLUSH_SAVED_BUFFER, R2	
		0D	12	0000C	TSTL	72(AP)	
	00000000G	00	9F	0000E	BNEQ	1\$	
00000000G	00	01	FB	00014	PUSHAB	SMG\$ MISTERNAM	
	62	6C	FA	0001B	CALLS	#1, [IB\$STOP	
54	AC	01	DO	0001E	CALLG	(AP), SMG\$\$FLUSH_SAVED_BUFFER	
58	AC	DA	AF	9E	MOVL	#1, 84(AP)	
	62	6C	FA	00027	MOVAB	P.AAA, 88(AP)	
	50	01	DO	0002A	CALLG	(AP), SMG\$\$FLUSH_SAVED_BUFFER	
		04	00	0002D	MOVL	#1, R0	
					RET		

: Routine Size: 46 bytes, Routine Base: _SMG\$CODE + 003D

```

: 700      0772  1 %SBTTL 'EXPRESSION_ERROR - Signal and expression error'
: 701      0773  1 ROUTINE EXPRESSION_ERROR =
: 702      0774  1
: 703      0775  1 !++
: 704      0776  1 ! FUNCTIONAL DESCRIPTION:
: 705      0777  1
: 706      0778  1     Signal that an invalid arithmetic expression was found.
: 707      0779  1
: 708      0780  1 ! CALLING SEQUENCE:
: 709      0781  1
: 710      0782  1
: 711      0783  1     status = EXPRESSION_ERROR ()
: 712      0784  1
: 713      0785  1 ! FORMAL PARAMETERS:
: 714      0786  1
: 715      0787  1     NONE
: 716      0788  1
: 717      0789  1 ! IMPLICIT INPLTS:
: 718      0790  1
: 719      0791  1     AP     Points to TPARSE parameter block
: 720      0792  1
: 721      0793  1 ! IMPLICIT OUTPUTS:
: 722      0794  1
: 723      0795  1     NONE
: 724      0796  1
: 725      0797  1 ! COMPLETION STATUS:
: 726      0798  1
: 727      0799  1     SSS_NORMAL
: 728      0800  1
: 729      0801  1 ! SIDE EFFECTS:
: 730      0802  1
: 731      0803  1 ! --
: 732      0804  1
: 733      0805  2     BEGIN
: 734      0806  2     BUILTIN
: 735      0807  2     AP;
: 736      0808  2     MAP
: 737      0809  2     AP : REF BLOCK [,BYTE];
: 738      0810  2
: 739      0811  2     SIGNAL_STOP (SMG$ ERRAT LIN,
: 740      0812  2     3, .SMG$$CURRENT LINE,
: 741      0813  2     .AP [TPASL-TOKENCNT],
: 742      0814  2     .AP [TPASL-TOKENPTR],
: 743      0815  2     SMG$_INVEXP)
: 744      0816  2
: 745      0817  1     END;                                ! end of routine EXPRESSION_ERROR

```

```

                                0000 0000 EXPRESSION ERROR:
                                .WORD   Save nothing           : 0773
                                PUSHAB  SMG$ INVEXP             : 0811
7E 00000000G 00 9F 00002        MOVQ   16(AP), -(SP)         : 0813
                                00000010 AC 7D 00008        PUSHL SMG$$CURRENT_LINE   : 0812
                                00000000G 00 DD 0000C        PUSHL #3                  : 0811
                                03 DD 00012

```



```

: 747 0818 1 %SBTTL 'END_ARITH_CAP - End of arithmetic capability data'
: 748 0819 1 ROUTINE END_ARITH_CAP =
: 749 0820 1
: 750 0821 1 !+
: 751 0822 1 FUNCTIONAL DESCRIPTION:
: 752 0823 1
: 753 0824 1     We have found the end of an arithmetic expression (a right
: 754 0825 1     parenthesis). An arithmetic expression should be terminated
: 755 0826 1     by the encoded type SMG$K_STORE, indicating that the final
: 756 0827 1     value has been computed.
: 757 0828 1
: 758 0829 1 CALLING SEQUENCE:
: 759 0830 1
: 760 0831 1     status = END_ARITH_CAP ()
: 761 0832 1
: 762 0833 1 FORMAL PARAMETERS:
: 763 0834 1
: 764 0835 1     NONE
: 765 0836 1
: 766 0837 1 IMPLICIT INPUTS:
: 767 0838 1
: 768 0839 1     AP     Points to TPARSE parameter block
: 769 0840 1
: 770 0841 1 IMPLICIT OUTPUTS:
: 771 0842 1
: 772 0843 1     NONE
: 773 0844 1
: 774 0845 1 COMPLETION STATUS:
: 775 0846 1
: 776 0847 1     SSS_NORMAL
: 777 0848 1
: 778 0849 1 SIDE EFFECTS:
: 779 0850 1
: 780 0851 1 --
: 781 0852 1
: 782 0853 2 BEGIN
: 783 0854 2
: 784 0855 2 BUILTIN
: 785 0856 2     CALLG,
: 786 0857 2     AP;
: 787 0858 2 MAP
: 788 0859 2     AP : REF BLOCK [,BYTE];
: 789 0860 2
: 790 0861 2 !+
: 791 0862 2 ! Indicate end of computing.
: 792 0863 2 !-
: 793 0864 2
: 794 0865 2     AP [PARAM_L_SAVED_TOKENCNT] = 1;
: 795 0866 2     AP [PARAM_L_SAVED_TOKENSTR] = UPLIT (BYTE (SMG$K_STORE));
: 796 0867 2
: 797 0868 2     CALLG (.AP, SMG$$FLUSH_ARITHMETIC);
: 798 0869 2                                     ! move the data
: 799 0870 2
: 800 0871 2     AP [TPASV_BLANKS] = 1;           ! look at blanks again
: 801 0872 2
: 802 0873 2     RETURN (SS$NORMAL);
: 803 0874 2
  
```

SMG\$STRING_TABL TPARSE tables for string capabilities
1-003 END_ARITH_CAP - End of arithmetic capability da

F 14
16-Sep-1984 01:22:35
14-Sep-1984 13:10:04

VAX-11 Bliss-32 V4.0-742
[SMGRTL.SRC]SMGSTRTAB.B32;1

: 804 0875 1 END;

! end of routine END_ARITH_CAP

F7 0008D .BLKB 3
00090 P.AAB: .BYTE -9

```
0000 00000 END_ARITH_CAP:
      54 AC 01 D0 00002 .WORD Save nothing : 0819
      58 AC F6 AF 9E 00006 MOVL #1, 84(AP) : 0865
00000000G 00 6C FA 0000B MOVAB P.AAB, 88(AP) : 0866
      04 AC 01 88 00012 CALLG (AP), SMG$$FLUSH_ARITHMETIC : 0868
      50 01 D0 00016 BISB2 #1, 4(AP) : 0871
      04 00019 MOVL #1, R0 : 0873
      RET : 0875
```

: Routine Size: 26 bytes, Routine Base: _SMG\$CODE + 0091

```

806 0876 1 XSBTTL 'INIT_ARITH_CAP - Initialize arithmetic capability data'
807 0877 1 ROUTINE INIT_ARITH_CAP =
808 0878 1
809 0879 1 :++
810 0880 1 : FUNCTIONAL DESCRIPTION:
811 0881 1
812 0882 1 :     We have found the beginning of an arithmetic expression (a left
813 0883 1 :     parenthesis). Before moving operands and operators nto the data
814 0884 1 :     area, initialize it as an arithmetic capability, ie. tart with a
815 0885 1 :     negative length and a type of SMG$K_ARITH_STRING.
816 0886 1
817 0887 1 : CALLING SEQUENCE:
818 0888 1
819 0889 1 :     status = INIT_ARITH_CAP ()
820 0890 1
821 0891 1 : FORMAL PARAMETERS:
822 0892 1
823 0893 1 :     NONE
824 0894 1
825 0895 1 : IMPLICIT INPUTS:
826 0896 1
827 0897 1 :     AP      Points to TPARSE parameter block
828 0898 1
829 0899 1 : IMPLICIT OUTPUTS:
830 0900 1
831 0901 1 :     NONE
832 0902 1
833 0903 1 : COMPLETION STATUS:
834 0904 1
835 0905 1 :     SS$_NORMAL
836 0906 1
837 0907 1 : SIDE EFFECTS:
838 0908 1
839 0909 1 : --
840 0910 1
841 0911 2 : BEGIN
842 0912 2
843 0913 2 : BUILTIN
844 0914 2 :     CALLG,
845 0915 2 :     AP;
846 0916 2 : MAP
847 0917 2 :     AP : REF BLOCK [,BYTE];
848 0918 2
849 0919 2 : LOCAL
850 0920 2 :     FIRST : INITIAL (0),           ! flag to indicate start of string
851 0921 2 :     START_CAP_STRING;             ! where to copy data
852 0922 2 : MAP
853 0923 2 :     START_CAP_STRING : REF VECTOR [,BYTE,SIGNED];
854 0924 2
855 0925 2 : BIND
856 0926 2 :     CAP_PTRS = .AP [PARAM_L_CUR_TERM_DEF] : VECTOR [,WORD];
857 0927 2
858 0928 2 : :++
859 0929 2 : : The NAME capability should have preceeded any arithmetic capability.
860 0930 2 : : Complain if it didn't.
861 0931 2 : : --
862 0932 2

```

```
863 0933 2 IF CAP_PTRS EQL 0
864 0934 2 THEN
865 0935 2 SIGNAL_STOP (SMG$_MISTERNAM);
866 0936 2
867 0937 2
868 0938 2
869 0939 2
870 0940 2
871 0941 2
872 0942 2
873 0943 2 CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER);
874 0944 2
875 0945 2 IF .CAP_PTRS [.AP [PARAM_L_CUR_CAP_NUMBER]] NEQ 0
876 0946 2 THEN
877 0947 2 BEGIN
878 0948 2
879 0949 2 | +
880 0950 2 | Not start of the capability string.
881 0951 2 |
882 0952 2 | START_CAP_STRING = .AP [PARAM_L_CUR_TERM_DEF] +
883 0953 2 | .CAP_PTRS [.AP [PARAM_L_CUR_CAP_NUMBER]];
884 0954 2 |
885 0955 2 | END
886 0956 2 | +
887 0957 2 | First byte of capability string. Set offset pointer.
888 0958 2 |
889 0959 2 | BEGIN
890 0960 2 | FIRST = 1;
891 0961 2 | START_CAP_STRING = .AP [PARAM_L_CUR_DATA_BYTE];
892 0962 2 | CAP_PTRS [.AP [PARAM_L_CUR_CAP_NUMBER]] = .SMG$$DATA_OFFSET;
893 0963 2 | SMG$$DATA_OFFSET = .SMG$$DATA_OFFSET + 2;
894 0964 2 | | leave space for at least size, type
895 0965 2 | | bytes
896 0966 2 |
897 0967 2 | END;
898 0968 2 |
899 0969 2 | IF .FIRST
900 0970 2 | THEN
901 0971 2 | AP [PARAM_L_CUR_DATA_BYTE] = .AP [PARAM_L_CUR_DATA_BYTE] + 2;
902 0972 2 | | space for size & type bytes
903 0973 2 |
904 0974 2 | +
905 0975 2 | If some other things preceeded this arithmetic expression, we need
906 0976 2 | to move them over by 2 bytes to make room for a size and type.
907 0977 2 |
908 0978 2 | IF NOT .FIRST
909 0979 2 | THEN
910 0980 2 | BEGIN ! not first byte in capability
911 0981 2 | LOCAL
912 0982 2 | TYPE;
913 0983 2 | TYPE = .START_CAP_STRING [1]; ! make this a longword
914 0984 2 |
915 0985 2 | IF .TYPE NEQ SMG$K_ARITH_STRING
916 0986 2 | THEN
917 0987 2 | BEGIN ! first expression
918 0988 2 | | +
919 0989 2 | | We don't allow mixing of FAO strings and arithmetic
| | expressions. We know the type isn't arithmetic, so
| | if the length is negative, there must be an FAO string.
```

```

: 920 0990 4      !-
: 921 0991 4      IF .START_CAP_STRING [0] LSS 0
: 922 0992 4      THEN
: 923 0993 4      SIGNAL_STOP (SMG$ ERRAT LIN,
: 924 0994 4      3, .SMG$CORRENT LINE,
: 925 0995 4      .AP [PARAM_L_SAVED_TOKENCNT],
: 926 0996 4      .AP [PARAM_L_SAVED_TOKENSTR],
: 927 0997 4      SMG$_SYNERR);
: 928 0998 4
: 929 0999 4      !+
: 930 1000 4      Slide over text.
: 931 1001 4
: 932 1002 4      CHSMOVE (.START_CAP_STRING [0] + 2, ! # chars + size, type bytes
: 933 1003 4      START_CAP_STRING [0], ! from old location
: 934 1004 4      START_CAP_STRING [2]); ! to new
: 935 1005 4
: 936 1006 4      !+
: 937 1007 4      Need a negative size. The size includes the data,
: 938 1008 4      the size byte and the type byte.
: 939 1009 4
: 940 1010 4      Note that right now, the size of the normal text is the size of
: 941 1011 4      the entire capability string.
: 942 1012 4
: 943 1013 4      IF .START_CAP_STRING [0] GTR 0
: 944 1014 4      THEN
: 945 1015 4      START_CAP_STRING [0] = -.START_CAP_STRING [0] - 4;
: 946 1016 4      ! size + 2 size & type bytes
: 947 1017 4
: 948 1018 4      AP [PARAM_L_CUR_DATA_BYTE] = .AP [PARAM_L_CUR_DATA_BYTE] + 2;
: 949 1019 4      ! update next free byte
: 950 1020 4      SMG$$DATA_OFFSET = .SMG$$DATA_OFFSET + 2;
: 951 1021 4      ! update next offset
: 952 1022 3      END; ! first expression
: 953 1023 3
: 954 1024 3      END ! not first byte in capability
: 955 1025 2      ELSE
: 956 1026 2      START_CAP_STRING [0] = .START_CAP_STRING [0] - 2;
: 957 1027 2      ! include size & type bytes for
: 958 1028 2      ! arith in count
: 959 1029 2
: 960 1030 2
: 961 1031 2      START_CAP_STRING [1] = SMG$K_ARITH_STRING <0,8>;
: 962 1032 2      ! set (or reset) as arith string
: 963 1033 2
: 964 1034 2      AP [TPASV_BLANKS] = 0; ! ignore blanks between ( )
: 965 1035 2
: 966 1036 2      RETURN (SS$_NORMAL);
: 967 1037 2
: 968 1038 1      END; ! end of routine INIT_ARITH_CAP

```

```

01FC 0000 INIT_ARITH_CAP:
58 0000000G 00 9E 0002 .WORD Save R2,R3,R4,R5,R6,R7,R8
MOVAB LIB$STOP, R8

```

```

: 0877
:
```

	57	00000000G	00	9E	00009	MOVAB	SMG\$\$DATA_OFFSET, R7		
			53	D4	00010	CLRL	FIRST	0911	
	52		48	AC	D0 00012	MOVL	72(AP), R2	0926	
				09	12 00016	BNEQ	1\$	0933	
		00000000G	00	9F	00018	PUSHAB	SMG\$ MISTERNAM	0935	
	68			01	FB 0001E	CALLS	#1, [IB\$STOP		
		00000000G	00	6C	FA 00021	CALLG	(AP), SMG\$\$FLUSH_SAVED_BUFFER	0943	
	50		50	AC	D0 00028	MOVL	80(AP), R0	0945	
				6240	B5 0002C	TSTW	(R2)[R0]		
				0A	13 0002F	BEQL	2\$		
	56			6240	3C 00031	MOVZWL	(R2)[R0], START_CAP_STRING	0952	
	56		48	AC	C0 00035	ADDL2	72(AP), START_CAP_STRING		
				0E	11 00039	BRB	3\$	0945	
	53			01	D0 0003B	MOVL	#1, FIRST	0959	
	56		4C	AC	D0 0003E	MOVL	76(AP), START_CAP_STRING	0960	
		6240		67	B0 00042	MOVW	SMG\$\$DATA_OFFSET, -(R2)[R0]	0961	
	67			02	C0 00046	ADDL2	#2, SMG\$\$DATA_OFFSET	0962	
	07			53	E9 00049	BLBC	FIRST, 4\$	0967	
		4C		AC	C0 0004C	ADDL2	#2, 76(AP)	0969	
	4A			53	E8 00050	BLBS	FIRST, 7\$	0981	
		FFFFFFFE		50	A6 98 00053	CVTBL	1(START_CAP_STRING), TYPE		
	8F		01	50	D1 00057	CMP	TYPE, #=2	0983	
				40	13 0005E	BEQL	8\$		
				66	95 00060	TSTB	(START_CAP_STRING)	0991	
				1B	18 00062	BGEQ	5\$		
		00000000G		00	9F 00064	PUSHAB	SMG\$ SYNERR	0993	
	7E			54	AC 7D 0006A	MOVQ	84(AP), -(SP)	0995	
		00000000G		00	DD 0006E	PUSHL	SMG\$\$CURRENT_LINE	0994	
				03	DD 00074	PUSHL	#3	0993	
		00000000G		00	9F 00076	PUSHAB	SMG\$ ERRAT_LIN		
	68			06	FB 0007C	CALLS	#6, [IB\$STOP		
	50			66	98 0007F	CVTBL	(START_CAP_STRING), R0	1002	
				50	02 C0 00082	ADDL2	#2, R0		
		02	A6	66	50 28 00085	MOV3	R0, (START_CAP_STRING), 2(START_CAP_STRING)	1004	
				66	95 0008A	TSTB	(START_CAP_STRING)	1013	
				06	15 0008C	BLEQ	6\$		
				66	8E 0008E	MNEGB	(START_CAP_STRING), (START_CAP_STRING)	1015	
				66	04 82 00091	SUBB2	#4, (START_CAP_STRING)		
		4C		AC	02 C0 00094	ADDL2	#2, 76(AP)	1018	
				67	02 C0 00098	ADDL2	#2, SMG\$\$DATA_OFFSET	1020	
				03	11 0009B	BRB	8\$	0976	
				66	02 82 0009D	SUBB2	#2, (START_CAP_STRING)	1026	
		01		A6	02 8E 000A0	MNEGB	#2, 1(START_CAP_STRING)	1031	
				04	AC 01 8A 000A4	BICB2	#1, 4(AP)	1034	
				50	01 D0 000A8	MOVL	#1, R0	1036	
					04 000AB	RET		1038	

; Routine Size: 172 bytes, Routine Base: _SMG\$CODE + 00AB

```

: 970      1039  1 %SBTTL 'INSERT_CARROT - Insert a ^ in the capability string'
: 971      1040  1 ROUTINE INSERT_CARROT =
: 972      1041  1
: 973      1042  1 !++
: 974      1043  1 ! FUNCTIONAL DESCRIPTION:
: 975      1044  1 !
: 976      1045  1 !     Stores a ^ character in the current capability string in
: 977      1046  1 !     TERMTABLE.EXE.
: 978      1047  1 !
: 979      1048  1 ! CALLING SEQUENCE:
: 980      1049  1 !
: 981      1050  1 !     status = INSERT_CARROT ()
: 982      1051  1 !
: 983      1052  1 ! FORMAL PARAMETERS:
: 984      1053  1 !
: 985      1054  1 !     NONE
: 986      1055  1 !
: 987      1056  1 ! IMPLICIT INPUTS:
: 988      1057  1 !
: 989      1058  1 !     AP     Points to TPARSE parameter block
: 990      1059  1 !
: 991      1060  1 ! IMPLICIT OUTPUTS:
: 992      1061  1 !
: 993      1062  1 !     NONE
: 994      1063  1 !
: 995      1064  1 ! COMPLETION STATUS:
: 996      1065  1 !
: 997      1066  1 !     SSS_NORMAL
: 998      1067  1 !
: 999      1068  1 ! SIDE EFFECTS:
1000      1069  1 !
1001      1070  1 ! --
1002      1071  1 !
1003      1072  2 ! BEGIN
1004      1073  2 !
1005      1074  2 ! BUILTIN
1006      1075  2 !     CALLG,
1007      1076  2 !     AP;
1008      1077  2 ! MAP
1009      1078  2 !     AP : REF BLOCK [,BYTE];
1010      1079  2 !
1011      1080  2 ! !+
1012      1081  2 ! ! If this is not the NAME capability and we have no pointers set up
1013      1082  2 ! ! for the terminal definition, then NAME was not the first capability
1014      1083  2 ! ! in the definition. Complain.
1015      1084  2 ! !-
1016      1085  2 !
1017      1086  2 ! BEGIN
1018      1087  2 ! BIND
1019      1088  2 !     CAP_PTRS = .AP [PARAM_L_CUR_TERM_DEF] : VECTOR [,WORD];
1020      1089  2 !
1021      1090  2 ! IF CAP_PTRS EQL 0
1022      1091  2 ! THEN
1023      1092  2 !     SIGNAL_STOP (SMG$_MISTERNAM);
1024      1093  2 !
1025      1094  2 ! !+
: 1026      1095  3 ! Move the capability data. The byte count is in the first byte and
    
```



```

: 1027      1096      | the actual data follows.
: 1028      1097
: 1029      1098      | Part of the string may already be copied - append in this part so
: 1030      1099      | as not to overwrite it. (This can happen if escape or control are
: 1031      1100      | part of the sequence.)
: 1032      1101
: 1033      1102
: 1034      1103      | CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER);
: 1035      1104      |         ! copy saved string
: 1036      1105      | AP [PARAM_L_SAVED_TOKENCNT] = 1;
: 1037      1106      | AP [PARAM_L_SAVED_TOKENSTR] = UPLIT ('^');
: 1038      1107      |         ! carrot is now 'saved'
: 1039      1108      | CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER);
: 1040      1109
: 1041      1110      | END;                                     ! end of BINDs scope
: 1042      1111
: 1043      1112      | RETURN (SS$_NORMAL);
: 1044      1113
: 1045      1114      | END;                                     ! end of routine INSERT_CARROT

```

```

00 00 00 5E 00157 .BLKB 1
00158 P.AAC: .ASCII \^\<0><0><0>

```

```

0004 0000 INSERT_CARROT:
52 0000000G 00 9E 00002 .WORD Save R2 : 1040
48 AC D5 00009 MOVAB SMG$$FLUSH_SAVED_BUFFER, R2 : 1090
0D 12 0000C TSTL 72(AP)
0000000G 00 9F 0000E BNEQ 1$ : 1092
0000000G 00 01 FB 00014 PUSHAB SMG$ MISTERNAM
54 AC 62 6C FA 0001B 1$: CALLS #1, [IB$STOP
58 AC D7 AF 9E 00022 CALLG (AP), SMG$$FLUSH_SAVED_BUFFER : 1103
62 6C FA 00027 MOVL #1, 84(AP) : 1105
50 01 D0 0002A MOVAB P.AAC, 88(AP) : 1106
04 0002D CALLG (AP), SMG$$FLUSH_SAVED_BUFFER : 1108
RET MOVL #1, R0 : 1112
: 1114

```

; Routine Size: 46 bytes, Routine Base: _SMG\$CODE + 015C

```

: 1047      1115 1 %SBTTL 'INSERT_DOLLAR - Insert a $ into a capability string'
: 1048      1116 1 ROUTINE INSERT_DOLLAR =
: 1049      1117 1
: 1050      1118 1 |++
: 1051      1119 1 | FUNCTIONAL DESCRIPTION:
: 1052      1120 1 |
: 1053      1121 1 |     Stores a $ character in the current capability string in
: 1054      1122 1 |     TERMTABLE.EXE.
: 1055      1123 1 |
: 1056      1124 1 | CALLING SEQUENCE:
: 1057      1125 1 |
: 1058      1126 1 |     status = INSERT_DOLLAR ()
: 1059      1127 1 |
: 1060      1128 1 | FORMAL PARAMETERS:
: 1061      1129 1 |
: 1062      1130 1 |     NONE
: 1063      1131 1 |
: 1064      1132 1 | IMPLICIT INPUTS:
: 1065      1133 1 |
: 1066      1134 1 |     AP     Points to TPARSE parameter block
: 1067      1135 1 |
: 1068      1136 1 | IMPLICIT OUTPUTS:
: 1069      1137 1 |
: 1070      1138 1 |     NONE
: 1071      1139 1 |
: 1072      1140 1 | COMPLETION STATUS:
: 1073      1141 1 |
: 1074      1142 1 |     SSS_NORMAL
: 1075      1143 1 |
: 1076      1144 1 | SIDE EFFECTS:
: 1077      1145 1 |
: 1078      1146 1 | --
: 1079      1147 1 |
: 1080      1148 1 | BEGIN
: 1081      1149 1 |
: 1082      1150 1 | BUILTIN
: 1083      1151 1 |     CALLG,
: 1084      1152 1 |     AP;
: 1085      1153 1 | MAP
: 1086      1154 1 |     AP : REF BLOCK [,BYTE];
: 1087      1155 1 | BIND
: 1088      1156 1 |     CAP_PTRS = .AP [PARAM_L_CUR_TERM_DEF] : VECTOR [,WORD];
: 1089      1157 1 |
: 1090      1158 1 | |++
: 1091      1159 1 | | If this is not the NAME capability and we have no pointers set up
: 1092      1160 1 | | for the terminal definition, then NAME was not the first capability
: 1093      1161 1 | | in the definition. Complain.
: 1094      1162 1 | |
: 1095      1163 1 | |
: 1096      1164 1 | |     IF CAP_PTRS EQL 0
: 1097      1165 1 | |     THEN
: 1098      1166 1 | |         SIGNAL_STOP (SMG$_MISTERNAM);
: 1099      1167 1 | |
: 1100      1168 1 | |++
: 1101      1169 1 | | Move the capability data. The byte count is in the first byte and
: 1102      1170 1 | | the actual data follows.
: 1103      1171 1 |

```

```

: 1104      1172 2 ! Part of the string may already be copied - append in this part so
: 1105      1173 2 ! as not to overwrite it. (This can happen if escape or control are
: 1106      1174 2 ! part of the sequence.)
: 1107      1175 2 !
: 1108      1176 2 !
: 1109      1177 2 CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER);
: 1110      1178 2 ! copy saved string
: 1111      1179 2 AP [PARAM_L_SAVED_TOKENCNT] = 1;
: 1112      1180 2 AP [PARAM_L_SAVED_TOKENSTR] = UPLIT ('$');
: 1113      1181 2 ! $ is now 'saved'
: 1114      1182 2 CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER);
: 1115      1183 2 ! append $
: 1116      1184 2
: 1117      1185 2 RETURN (SS$_NORMAL);
: 1118      1186 2
: 1119      1187 2 END;                                     ! end of routine INSERT_DOLLAR

```

00 00 00 24 0018A .BLKB 2
0018C P.AAD: .ASCII \\$\<0><0><0>

				0004 00000	INSERT_DOLLAR:		
	52	00000000G	00	9E 00002	.WORD	Save R2	: 1116
		48	AC	D5 00009	MOVAB	SMG\$\$FLUSH_SAVED_BUFFER, R2	: 1164
			0D	12 0000C	TSTL	72(AP)	
		00000000G	00	9F 0000E	BNEQ	1\$: 1166
00000000G	00		01	FB 00014	PUSHAB	SMG\$ MISTERNAM	
	62		6C	FA 0001B	CALLS	#1, [IB\$STOP	: 1177
	54	AC	01	D0 0001E	CALLG	(AP), SMG\$\$FLUSH_SAVED_BUFFER	: 1179
	58	AC	D7	AF 9E 00022	MOVL	#1, 84(AP)	: 1180
		62	6C	FA 00027	MOVAB	P.AAD, 88(AP)	: 1182
		50	01	D0 0002A	CALLG	(AP), SMG\$\$FLUSH_SAVED_BUFFER	: 1185
			04	0002D	MOVL	#1, R0	: 1187
					RET		

: Routine Size: 46 bytes, Routine Base: _SMG\$CODE + 0190

```

: 1121      1188 1 %SBTTL 'INSERT_EXCLAMATION - Insert a . into a capability string'
: 1122      1189 1 ROUTINE INSERT_EXCLAMATION =
: 1123      1190 1
: 1124      1191 1 +-
: 1125      1192 1 FUNCTIONAL DESCRIPTION:
: 1126      1193 1
: 1127      1194 1     Stores a ! character in the current capability string in
: 1128      1195 1     TERMTABLE.EXE.
: 1129      1196 1
: 1130      1197 1 CALLING SEQUENCE:
: 1131      1198 1
: 1132      1199 1     status = INSERT_EXCLAMATION ( )
: 1133      1200 1
: 1134      1201 1 FORMAL PARAMETERS:
: 1135      1202 1
: 1136      1203 1     NONE
: 1137      1204 1
: 1138      1205 1 IMPLICIT INPUTS:
: 1139      1206 1
: 1140      1207 1     AP     Points to TPARSE parameter block
: 1141      1208 1
: 1142      1209 1 IMPLICIT OUTPUTS:
: 1143      1210 1
: 1144      1211 1     NONE
: 1145      1212 1
: 1146      1213 1 COMPLETION STATUS:
: 1147      1214 1
: 1148      1215 1     SSS_NORMAL
: 1149      1216 1
: 1150      1217 1 SIDE EFFECTS:
: 1151      1218 1
: 1152      1219 1 --
: 1153      1220 1
: 1154      1221 2     BEGIN
: 1155      1222 2     BUILTIN
: 1156      1223 2     CALLG,
: 1157      1224 2     AP;
: 1158      1225 2     MAP
: 1159      1226 2     AP : REF BLOCK [,BYTE];
: 1160      1227 2     BIND
: 1161      1228 2     CAP_PTRS = .AP [PARAM_L_CUR_TERM_DEF] : VECTOR [,WORD];
: 1162      1229 2
: 1163      1230 2 +-
: 1164      1231 2     !if this is not the NAME capability and we have no pointers set up
: 1165      1232 2     for the terminal definition, then NAME was not the first capability
: 1166      1233 2     in the definition. Complain.
: 1167      1234 2     -
: 1168      1235 2
: 1169      1236 2     IF CAP_PTRS EQL 0
: 1170      1237 2     THEN
: 1171      1238 2     SIGNAL_STOP (SMG$_MISTERNAM);
: 1172      1239 2
: 1173      1240 2 +-
: 1174      1241 2     Move the capability data. The byte count is in the first byte and
: 1175      1242 2     the actual data follows.
: 1176      1243 2
: 1177      1244 2     Part of the string may already be copied - append in this part so

```

```

: 1178 1245 2 ! as not to overwrite it. (This can happen if escape or control are
: 1179 1246 2 ! part of the sequence.)
: 1180 1247 2 !
: 1181 1248 2 !
: 1182 1249 2 CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER);
: 1183 1250 2 T copy saved buffer
: 1184 1251 2 AP [PARAM_L_SAVED_TOKENCNT] = 1;
: 1185 1252 2 AP [PARAM_L_SAVED_TOKENSTR] = UPLIT ('!');
: 1186 1253 2 ! exclamation is now 'saved'
: 1187 1254 2 CALLG ( AP, SMG$$FLUSH_SAVED_BUFFER);
: 1188 1255 2 T append !
: 1189 1256 2
: 1190 1257 2 RETURN (SS$_NORMAL);
: 1191 1258 2
: 1192 1259 2 END; ! end of routine INSERT_EXCLAMATION
    
```

00 00 00 21 001BE .BLKB 2
 001C0 P.AAE: .ASCII \!\<0><0><0>

				0004 0000	INSERT_EXCLAMATION:	
	52	00000000G	00 9E 00002	.WORD	Save R2	: 1189
		48	AC D5 00009	MOVAB	SMG\$\$FLUSH_SAVED_BUFFER, R2	: 1236
			0D 12 0000C	TSTL	72(AP)	
		00000000G	00 9F 0000E	BNEQ	1\$: 1238
00000000G	00		01 FB 00014	PUSHAB	SMG\$ MISTERNAM	
	62		6C FA 0001B 1\$:	CALLS	#1, [IB\$STOP	: 1249
54	AC		01 D0 0001E	CALLG	(AP), SMG\$\$FLUSH_SAVED_BUFFER	: 1251
58	AC	D7	01 D0 0001E	MOVL	#1, 84(AP)	: 1252
	62		6C FA 00027	MOVAB	P.AAE, 88(AP)	: 1254
	50		01 D0 0002A	CALLG	(AP), SMG\$\$FLUSH_SAVED_BUFFER	: 1257
			04 0002D	MOVL	#1, R0	: 1259
				RET		

; Routine Size: 46 bytes, Routine Base: _SMG\$CODE + 01C4

```

: 1194 1260 1 %SBTTL 'INSERT_PARENTHESES - Insert a ( into a capability string'
: 1195 1261 1 ROUTINE INSERT_PARENTHESES =
: 1196 1262 1
: 1197 1263 1
: 1198 1264 1 |++
: 1199 1265 1 | FUNCTIONAL DESCRIPTION:
: 1200 1266 1 |     Stores a ( character in the current capability string in
: 1201 1267 1 |     TERMTABLE.EXE.
: 1202 1268 1
: 1203 1269 1 | CALLING SEQUENCE:
: 1204 1270 1 |
: 1205 1271 1 |     status = INSERT_PARENTHESES ( )
: 1206 1272 1
: 1207 1273 1 | FORMAL PARAMETERS:
: 1208 1274 1 |
: 1209 1275 1 |     NONE
: 1210 1276 1
: 1211 1277 1 | IMPLICIT INPUTS:
: 1212 1278 1 |
: 1213 1279 1 |     AP     Points to TPARSE parameter block
: 1214 1280 1
: 1215 1281 1 | IMPLICIT OUTPUTS:
: 1216 1282 1 |
: 1217 1283 1 |     NONE
: 1218 1284 1
: 1219 1285 1 | COMPLETION STATUS:
: 1220 1286 1 |
: 1221 1287 1 |     SSS_NORMAL
: 1222 1288 1
: 1223 1289 1 | SIDE EFFECTS:
: 1224 1290 1 |
: 1225 1291 1 | --
: 1226 1292 1
: 1227 1293 2 | BEGIN
: 1228 1294 2 | BUILTIN
: 1229 1295 2 |     CALLG,
: 1230 1296 2 |     AP;
: 1231 1297 2 | MAP
: 1232 1298 2 |     AP : REF BLOCK [,BYTE];
: 1233 1299 2 | BIND
: 1234 1300 2 |     CAP_PTRS = .AP [PARAM_L_CUR_TERM_DEF] : VECTOR [,WORD];
: 1235 1301 2
: 1236 1302 2 | +
: 1237 1303 2 | If this is not the NAME capability and we have no pointers set up
: 1238 1304 2 | for the terminal definition, then NAME was not the first capability
: 1239 1305 2 | in the definition. Complain.
: 1240 1306 2 | -
: 1241 1307 2
: 1242 1308 2 | IF CAP_PTRS EQL 0
: 1243 1309 2 | THEN
: 1244 1310 2 |     SIGNAL_STOP (SMG$MISTERNAM);
: 1245 1311 2
: 1246 1312 2 | +
: 1247 1313 2 | Move the capability data. The byte count is in the first byte and
: 1248 1314 2 | the actual data follows.
: 1249 1315 2
: 1250 1316 2 | Part of the string may already be copied - append in this part so
    
```

```

: 1251 1317 2 | as not to overwrite it. (This can happen if escape or control are
: 1252 1318 2 | part of the sequence.)
: 1253 1319 2 |
: 1254 1320 2 |
: 1255 1321 2 | CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER);
: 1256 1322 2 | T copy saved string
: 1257 1323 2 | AP [PARAM_L_SAVED_TOKENCNT] = 1;
: 1258 1324 2 | AP [PARAM_L_SAVED_TOKENSTR] = UPLIT ('(');
: 1259 1325 2 | ! ( is now saved
: 1260 1326 2 | CALLG (.AP, SMG$$FLUSH_SAVED_BUFFER);
: 1261 1327 2 | T append (
: 1262 1328 2 |
: 1263 1329 2 | RETURN (SS$_NORMAL);
: 1264 1330 2 |
: 1265 1331 1 | END; ! end of routine INSERT_PARENTHESIS
    
```

```

00 00 00 28 001F2 .BLKB 2
001F4 P.AAF: .ASCII \(\<0><0><0>
    
```

```

0004 0000 INSERT_PARENTHESIS:
: 1261 .WORD Save R2
: 1308 MOVAB SMG$$FLUSH_SAVED_BUFFER, R2
: 1310 TSTL 72(AP)
: 1321 BNEQ 1$
: 1323 PUSHAB SMG$ MISTERNAM
: 1324 CALLS #1, [IB$STOP
: 1326 CALLG (AP), SMG$$FLUSH_SAVED_BUFFER
: 1329 MOVL #1, 84(AP)
: 1331 MOVAB P.AAF, 88(AP)
: 1324 CALLG (AP), SMG$$FLUSH_SAVED_BUFFER
: 1329 MOVL #1, R0
: 1331 RET
    
```

; Routine Size: 46 bytes, Routine Base: _SMG\$CODE + 01F8

```

: 1267 1332 1 %SBTTL 'INVALID_DIRECTIVE - signal invalid directive error'
: 1268 1333 1 ROUTINE INVALID_DIRECTIVE =
: 1269 1334 1
: 1270 1335 1 |++
: 1271 1336 1 | FUNCTIONAL DESCRIPTION:
: 1272 1337 1 |
: 1273 1338 1 |     Following a !, we have found some directive we don't handle.
: 1274 1339 1 |     Signal an error.
: 1275 1340 1 |
: 1276 1341 1 | CALLING SEQUENCE:
: 1277 1342 1 |
: 1278 1343 1 |
: 1279 1344 1 |     status = INVALID_DIRECTIVE ()
: 1280 1345 1 |
: 1281 1346 1 | FORMAL PARAMETERS:
: 1282 1347 1 |
: 1283 1348 1 |     NONE
: 1284 1349 1 |
: 1285 1350 1 | IMPLICIT INPUTS:
: 1286 1351 1 |
: 1287 1352 1 |     AP     Points to TPARSE parameter block
: 1288 1353 1 |
: 1289 1354 1 | IMPLICIT OUTPUTS:
: 1290 1355 1 |
: 1291 1356 1 |     NONE
: 1292 1357 1 |
: 1293 1358 1 | COMPLETION STATUS:
: 1294 1359 1 |
: 1295 1360 1 |     SSS_NORMAL
: 1296 1361 1 |
: 1297 1362 1 | SIDE EFFECTS:
: 1298 1363 1 |
: 1299 1364 1 | --
: 1300 1365 1 |
: 1301 1366 2 | BEGIN
: 1302 1367 2 | BUILTIN
: 1303 1368 2 |     AP;
: 1304 1369 2 | MAP
: 1305 1370 2 |     AP : REF BLOCK [,BYTE];
: 1306 1371 2 |
: 1307 1372 2 | SIGNAL_STOP (SMG$_ERRAT LIN,
: 1308 1373 2 |               3, .SMG$$CURRENT_LINE,
: 1309 1374 2 |               .AP [TPASL_TOKENCNT],
: 1310 1375 2 |               .AP [TPASL_TOKENPTR],
: 1311 1376 2 |               SMG$_INVDIR)
: 1312 1377 1 | END;                               ! end of routine INVALID_DIRECTIVE
  
```

```

                                0000 0000 INVALID_DIRECTIVE:
                                .WORD   Save nothing           : 1333
7E 00000000G 00 9F 00002        PUSHAB  SMG$ INVDIR           : 1372
                                10 AC 7D 00008        MOVQ   16(AP), -(SP)       : 1374
                                00000000G 00 DD 0000C    PUSHL  SMG$$CURRENT_LINE   : 1373
                                03 DD 00012        PUSHL  #3                  : 1372
  
```


SMG\$STRING_TABL TPARSE tables for string capabilities
1-003 INVALID_DIRECTIVE - signal invalid directive er

G 15
16-Sep-1984 01:22:35
14-Sep-1984 13:10:04

VAX-11 Bliss-32 V4.0-742
[SMGRTL.SRC]SMGSTRTAB.B32;1

00000000G 00 00000000G 00 9F 00014
06 FB 0001A
04 00021

PUSHAB SMG\$ ERRAT LIN
CALLS #6, [IB\$STOP
RET

:
:
: 1377

; Routine Size: 34 bytes, Routine Base: _SMG\$CODE + 0226

```

1314 1378 1 %SBTTL 'STORE_OPERAND - Store arithmetic operand'
1315 1379 1 ROUTINE STORE_OPERAND =
1316 1380 1
1317 1381 1 +-
1318 1382 1 FUNCTIONAL DESCRIPTION:
1319 1383 1
1320 1384 1 We have just found an operand which we need to store in TERMTABLE.
1321 1385 1 We will also check to see if an operator was previously found and
1322 1386 1 needs to be stored.
1323 1387 1
1324 1388 1 CALLING SEQUENCE:
1325 1389 1
1326 1390 1
1327 1391 1 status = STORE_OPERAND ()
1328 1392 1
1329 1393 1 FORMAL PARAMETERS:
1330 1394 1
1331 1395 1 NONE
1332 1396 1
1333 1397 1 IMPLICIT INPUTS:
1334 1398 1
1335 1399 1 AP Points to TPARSE parameter block
1336 1400 1
1337 1401 1 IMPLICIT OUTPUTS:
1338 1402 1
1339 1403 1 NONE
1340 1404 1
1341 1405 1 COMPLETION STATUS:
1342 1406 1
1343 1407 1 SSS_NORMAL
1344 1408 1
1345 1409 1 SIDE EFFECTS:
1346 1410 1
1347 1411 1 --
1348 1412 1
1349 1413 2 BEGIN
1350 1414 2 BUILTIN
1351 1415 2 CALLG,
1352 1416 2 AP;
1353 1417 2 MAP
1354 1418 2 AP : REF BLOCK [,BYTE];
1355 1419 2 LOCAL
1356 1420 2 COPY_BUFFER : VECTOR [7,BYTE]; ! construct bytes to copy here
1357 1421 2
1358 1422 2 AP [PARAM_L_SAVED_TOKENCNT] = 6; ! longword + type,size bytes
1359 1423 2
1360 1424 2 COPY_BUFFER [0] = SMG$K_OPERAND<0,8>; ! type
1361 1425 2 COPY_BUFFER [1] = 0;
1362 1426 2 CH$MOVE (4, AP [TPA$L_NUMBER], COPY_BUFFER [2]);
1363 1427 2 ! store binary operand
1364 1428 2
1365 1429 2 +-
1366 1430 2 If this is the second operand, then we need to store an operator.
1367 1431 2 --
1368 1432 2
1369 1433 2 IF .SMG$MASK_ADR NEQ 0
1370 1434 2 THEN

```

```

: 1371      1435 3      BEGIN
: 1372      1436 3      COPY_BUFFER [6] = .SMG$MASK_ADR;
: 1373      1437 3      AP [PARAM_L_SAVED_TOKENCNT] = .AP [PARAM_L_SAVED_TOKENCNT] + 1;
: 1374      1438 3      END;
: 1375      1439 2
: 1376      1440 2      AP [PARAM_L_SAVED_TOKENSTR] = COPY_BUFFER;
: 1377      1441 2
: 1378      1442 2      CALLG (.AP, SMG$FLUSH_ARITHMETIC); ! write the buffer
: 1379      1443 2
: 1380      1444 2      SMG$MASK_ADR = 0; ! re-init operator
: 1381      1445 2
: 1382      1446 2      RETURN (SS$NORMAL);
: 1383      1447 2
: 1384      1448 1      END; ! end of routine STORE_OPERAND

```

```

                                0004 0000 STORE_OPERAND:
                                .WORD      Save R2
                                MOVAB      SMG$MASK_ADR, R2
                                SUBL2      #8, SP
                                54 AC      06 D0 0000C      MOVL      #6, 84(AP)
                                6E      FD 8F 9B 00010      MOVZBW    #253, COPY_BUFFER
                                02 AE      1C AC D0 00014      MOVL      28(AP), COPY_BUFFER+2
                                50      62 D0 00019      MOVL      SMG$MASK_ADR, R0
                                06 AE      07 13 0001C      BEQL      1$
                                54 AC      50 90 0001E      MOVB      R0, COPY_BUFFER+6
                                58 AC      6E 9E 00025 1$:      INCL      84(AP)
                                00000000G 00      6C FA 00029      MOVAB      COPY_BUFFER, 88(AP)
                                62 D4 00030      CALLG     (AP), SMG$FLUSH_ARITHMETIC
                                50      01 D0 00032      CLRL      SMG$MASK_ADR
                                04 00035      MOVL      #1, R0
                                RET

```

: Routine Size: 54 bytes, Routine Base: _SMG\$CODE + 0248

```

: 1386      1449  1 %SBTTL 'STORE_SUBSTITUTION - store substitution flag in arithmetic cap'
: 1387      1450  1 ROUTINE STORE_SUBSTITUTION =
: 1388      1451  1
: 1389      1452  1
: 1390      1453  1
: 1391      1454  1
: 1392      1455  1
: 1393      1456  1
: 1394      1457  1
: 1395      1458  1
: 1396      1459  1
: 1397      1460  1
: 1398      1461  1
: 1399      1462  1
: 1400      1463  1
: 1401      1464  1
: 1402      1465  1
: 1403      1466  1
: 1404      1467  1
: 1405      1468  1
: 1406      1469  1
: 1407      1470  1
: 1408      1471  1
: 1409      1472  1
: 1410      1473  1
: 1411      1474  1
: 1412      1475  1
: 1413      1476  1
: 1414      1477  1
: 1415      1478  1
: 1416      1479  1
: 1417      1480  1
: 1418      1481  1
: 1419      1482  1
: 1420      1483  2
: 1421      1484  2
: 1422      1485  2
: 1423      1486  2
: 1424      1487  2
: 1425      1488  2
: 1426      1489  2
: 1427      1490  2
: 1428      1491  2
: 1429      1492  2
: 1430      1493  2
: 1431      1494  2
: 1432      1495  2
: 1433      1496  2
: 1434      1497  2
: 1435      1498  2
: 1436      1499  2
: 1437      1500  2
: 1438      1501  2
: 1439      1502  2
: 1440      1503  3
: 1441      1504  3
: 1442      1505  3

++
FUNCTIONAL DESCRIPTION:
    Store an encoded flag indicating that a user argument must be
    substituted into the expression at run-time.

CALLING SEQUENCE:
    status = STORE_SUBSTITUTION ()

FORMAL PARAMETERS:
    NONE

IMPLICIT INPUTS:
    AP    Points to TPARSE parameter block

IMPLICIT OUTPUTS:
    NONE

COMPLETION STATUS:
    SSS_NORMAL

SIDE EFFECTS:
--
BEGIN
BUILTIN
    CALLG,
    AP;
MAP
    AP : REF BLOCK [,BYTE];
LOCAL
    COPY_BUFFER : VECTOR [3,BYTE];

    COPY_BUFFER [0] = SMG$K SUBSTITUTE <0,8>;
    COPY_BUFFER [1] = .AP [TPASL_NUMBER];
    AP [PARAM_L_SAVED_TOKENCNT] = 2;

++
See if there's a saved operator that needs to be inserted.
--
IF .SMG$MASK_ADR NEQ 0
THEN
    BEGIN
    COPY_BUFFER [2] = .SMG$MASK_ADR;
    AP [PARAM_L_SAVED_TOKENCNT] = .AP [PARAM_L_SAVED_TOKENCNT] + 1;
    
```

```

: 1443      1506 3      SMG$MASK_ADR = 0;
: 1444      1507 2      END;
: 1445      1508 2
: 1446      1509 2      AP [PARAM_L_SAVED_TOKENSTR] = COPY_BUFFER;
: 1447      1510 2
: 1448      1511 2      CALLG (.AP, SMG$$FLUSH_ARITHMETIC);
: 1449      1512 2      ! move buffer to data area
: 1450      1513 2
: 1451      1514 2      RETURN (SS$_NORMAL);
: 1452      1515 2
: 1453      1516 1      END;
                                ! end of routine STORE_SUBSTITUTION
  
```

```

                                0004 00000 STORE_SUBSTITUTION:
                                .WORD   Save R2
                                52 00000000G 00 9E 00002   MOVAB   SMG$MASK_ADR, R2
                                5E          04 C2 00009   SUBL2  #4, SP
                                6E          04 8E 0000C   MNEGB  #4, COPY_BUFFER
                                01 AE      1C AC 90 0000F   MOVB   28(AP), COPY_BUFFER+1
                                54 AC          02 D0 00014   MOVL   #2, 84(AP)
                                5U          62 D0 00018   MOVL   SMG$MASK_ADR, R0
                                09 13 0001B   BEQL   1$
                                02 AE          50 90 0001D   MOVB   R0, COPY_BUFFER+2
                                54 AC D6 00021   INCL   84(AP)
                                62 D4 00024   CLRL   SMG$MASK_ADR
                                58 AC          6E 9E 00026 1$:   MOVAB  COPY_BUFFER, 88(AP)
                                00000000G 00 6C FA 0002A   CALLG  (AP), SMG$$FLUSH_ARITHMETIC
                                5U          01 D0 00031   MOVL   #1, R0
                                04 00034   RET
                                : 1450
                                : 1492
                                : 1493
                                : 1495
                                : 1501
                                : 1504
                                : 1505
                                : 1506
                                : 1509
                                : 1511
                                : 1514
                                : 1516
  
```

: Routine Size: 53 bytes, Routine Base: _SMG\$CODE + 027E

```

: 1455      1517 1 %SBTTL 'NOT_STRING - signal an unknown capability name'
: 1456      1518 1 ROUTINE NOT_STRING =
: 1457      1519 1
: 1458      1520 1
: 1459      1521 1
: 1460      1522 1
: 1461      1523 1
: 1462      1524 1
: 1463      1525 1
: 1464      1526 1
: 1465      1527 1
: 1466      1528 1
: 1467      1529 1
: 1468      1530 1
: 1469      1531 1
: 1470      1532 1
: 1471      1533 1
: 1472      1534 1
: 1473      1535 1
: 1474      1536 1
: 1475      1537 1
: 1476      1538 1
: 1477      1539 1
: 1478      1540 1
: 1479      1541 1
: 1480      1542 1
: 1481      1543 1
: 1482      1544 1
: 1483      1545 1
: 1484      1546 1
: 1485      1547 1
: 1486      1548 1
: 1487      1549 1
: 1488      1550 1
: 1489      1551 1
: 1490      1552 2
: 1491      1553 2
: 1492      1554 2
: 1493      1555 2
: 1494      1556 2
: 1495      1557 2
: 1496      1558 2
: 1497      1559 2
: 1498      1560 2
: 1499      1561 2
: 1500      1562 2
: 1501      1563 1

```

```

    **
    FUNCTIONAL DESCRIPTION:
        We just found a unknown capability name. It could be a misspelling
        or it could be a name misplaced under the wrong heading. Signal an
        error.
    CALLING SEQUENCE:
        status = NOT_STRING (')
    FORMAL PARAMETERS:
        NONE
    IMPLICIT INPUTS:
        AP      Points to TPARSE parameter block
    IMPLICIT OUTPUTS:
        NONE
    COMPLETION STATUS:
        SSS_NORMAL
    SIDE EFFECTS:
    --
    BEGIN
    BUILTIN
    AP:
    MAP
    AP : REF BLOCK [,BYTE];
    SIGNAL_STOP (SMG$ERRAT LIN,
                3, .SMG$$CURRENT_LINE,
                .AP [TPASL_TOKENCNT],
                .AP [TPASL_TOKENPTR],
                SMG$_NOTSTRCAP)
    END;

```

0000 00000 NOT_STRING:

				.WORD	Save nothing	: 1518
				PUSHAB	SMG\$_NOTSTRCAP	: 1558
7E	00000000G	00	9F 00002	MOVQ	16(AP), -(SP)	: 1560
	00000000G	00	DD 0000C	PUSHL	SMG\$\$CURRENT_LINE	: 1559

SMG\$STRING_TABL TPARSE tables for string capabilities
1-003 NOT_STRING - signal an unknown capability name

M 15
16-Sep-1984 01:22:35
14-Sep-1984 13:10:04

VAX-11 Bliss-32 V4.0-742
[SMGRTL.SRC]SMGSTRTAB.B32;1

Page 93
(16)

00000000G 00 00000000G 03 DD 00012
00 9F 00014
06 FB 0001A
04 00021

PUSHL #3
PUSHAB SMG\$ERRAT_LIN
CALLS #6, [IB\$STOP
RET

: 1558
:
:
:
: 1563

; Routine Size: 34 bytes, Routine Base: _SMG\$CODE + 02B3

; 1502 1564 1 !<BLF/PAGE>

SMG\$STRING_TABL TPARSE tables for string capabilities
1-003 NOT_STRING - signal an unknown capability name

N 15
16-Sep-1984 01:22:35 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 13:10:04 [SMGRTL.SRC]SMGSTRTAB.B32;1

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(17)

: 1504 1565 1 END
: 1505 1566 1
: 1506 1567 0 ELUDOM

! End of module SMG\$STRING_TABLES

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
_LIB\$KEYOS	342 NOVEC,NOWRT, RD	EXE, SHR, LCL, REL, CON, PIC,ALIGN(1)
_LIB\$STATES	2576 NOVEC,NOWRT, RD	EXE, SHR, LCL, REL, CON, PIC,ALIGN(1)
_LIB\$KEY1\$	2061 NOVEC,NOWRT, RD	EXE, SHR, LCL, REL, CON, PIC,ALIGN(1)
_SMG\$CODE	725 NOVEC,NOWRT, RD	EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	172	1	581	00:01.0
_\$255\$DUA28:[SMGRTL.OBJ]RTLLIB.L32;1	36	0	0	8	00:00.1
_\$255\$DUA28:[SMGRTL.OBJ]SMGLIB.L32;1	469	0	0	38	00:00.4
_\$255\$DUA28:[SMGRTL.OBJ]SMGTPALIB.L32;1	41	14	34	10	00:00.1
_\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	42	30	71	14	00:00.1

COMMAND QUALIFIERS

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

: Size: 694 code + 5010 data bytes
: Run Time: 03:48.4
: Elapsed Time: 10:51.1
: Lines/CPU Min: 411
: Lexemes/CPU-Min:113340
: Memory Used: 758 pages
: Compilation Complete

