


```

FFFFFFFFF 000000 RRRRRRRR EEEEEEEEE EEEEEEEEE RRRRRRRR RRRRRRRR SSSSSSSS NN NN SSSSSSSS
FFFFFFFFF 000000 RRRRRRRR EEEEEEEEE EEEEEEEEE RRRRRRRR RRRRRRRR SSSSSSSS NN NN SSSSSSSS
FF 00 00 RR RR EE EE RR RR RR RR SS NN NN SS
FF 00 00 RR RR EE EE RR RR RR RR SS NN NN SS
FF 00 00 RR RR EE EE RR RR RR RR SS NN NN SS
FF 00 00 RR RR EE EE RR RR RR RR SS NN NN SS
FFFFFFFFF 00 00 RRRRRRRR EEEEEEEEE EEEEEEEEE RRRRRRRR RRRRRRRR SSSSSS NN NN SSSSSS
FFFFFFFFF 00 00 RRRRRRRR EEEEEEEEE EEEEEEEEE RRRRRRRR RRRRRRRR SSSSSS NN NN SSSSSS
FF 00 00 RR RR EE EE RR RR RR RR SS NN NN SS
FF 00 00 RR RR EE EE RR RR RR RR SS NN NN SS
FF 00 00 RR RR EE EE RR RR RR RR SS NN NN SS
FF 00 00 RR RR EE EE RR RR RR RR SS NN NN SS
FF 000000 RR RR EEEEEEEEE EEEEEEEEE RRR RR RR RR RR SSSSSSSS NN NN SSSSSSSS
FF 000000 RR RR EEEEEEEEE EEEEEEEEE RRR RR RR RR RR SSSSSSSS NN NN SSSSSSSS

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

```

```

1 0001 0 MODULE FOR$ERRSNS (XTITLE'FORTRAN ERRSNS and save error info'
2 0002 0 IDENT = '1-003' ! File: FORERRSNS.B32 Edit: SBL1003
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 |
7 0007 1 |*****
8 0008 1 |*
9 0009 1 |* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 |*
27 0027 1 |*
28 0028 1 |*****
29 0029 1 |
30 0030 1 |
31 0031 1 |**
32 0032 1 | FACILITY: FORTRAN Support Library
33 0033 1 |
34 0034 1 | ABSTRACT:
35 0035 1 |
36 0036 1 |
37 0037 1 | Return information about last FORTRAN error (ERRSNS).
38 0038 1 | Also an internal routine to save that information when
39 0039 1 | an error occurs in OWN storage.
40 0040 1 |
41 0041 1 | ENVIRONMENT: User Mode - AST re-entrant
42 0042 1 |
43 0043 1 | AUTHOR: Thomas N. Hastings, CREATION DATE: 8-Nov-1977
44 0044 1 |
45 0045 1 | MODIFIED BY:
46 0046 1 |
47 0047 1 | Thomas N. Hastings, 8-Nov-1977: VERSION 0
48 0048 1 | [Previous edit history removed. SBL 29-Jun-1983]
49 0049 1 | 1-001 - Update copyright statement and version number. JBS 16-NOV-78
50 0050 1 | 1-002 - Declare NULLPARAMETER and ACTUALPARAMETER for new BLISS
51 0051 1 | compiler. JBS 22-NOV-78
52 0052 1 | 1-003 - Use prologue file. Add FOR$$INIT ERRSET and call back to
53 0053 1 | routine to store error info in ERRSET/ERRTST table. SBL 29-Jun-1983
54 0054 1 | --

```

```
56 0055 1 |
57 0056 1 | PROLOGUE FILE:
58 0057 1 |
59 0058 1 |
60 0059 1 REQUIRE 'RTLIN:FORPROLOG';           ! FOR$ definitions
61 0125 1 |
62 0126 1 |
63 0127 1 | TABLE OF CONTENTS:
64 0128 1 |
65 0129 1 |
66 0130 1 FORWARD ROUTINE
67 0131 1     FOR$ERRSNS: NOVALUE,             ! Return error information about last error
68 0132 1     FOR$ERRSNS W: NOVALUE,         ! Same except word size args
69 0133 1     FOR$$ERRSNS SAV: NOVALUE,      ! Internal routine to save information
70 0134 1     FOR$$INIT_ERRSET: NOVALUE;    ! Initialize for ERRSET/ERRTST
71 0135 1 |
72 0136 1 |
73 0137 1 | MACROS:
74 0138 1 |
75 0139 1 |
76 0140 1 |
77 0141 1 | EQUATED SYMBOLS:
78 0142 1 |
79 0143 1 |     The following offsets are used to access OWN vectors, LOCAL vectors, and formals:
80 0144 1 |
81 0145 1 LITERAL
82 0146 1     NPARMAX = 5;                   ! No. of parameters max.
83 0147 1 |
84 0148 1 |
85 0149 1 | OWN STORAGE:
86 0150 1 |
87 0151 1 OWN
88 0152 1     LAST_ERROR_INFO: VECTOR [NPARMAX+1], ! Last error info (non-AST level)
89 0153 1     LAST_AST_INFO: VECTOR [NPARMAX+1],  ! Last error info (AST level)
90 0154 1     ! 0th entry not used
91 0155 1     RECORD_ERROR_ADDR: INITIAL (0);    ! Address of RECORD_ERROR rtn
92 0156 1 |
93 0157 1 |
94 0158 1 | EXTERNAL REFERENCES:
95 0159 1 |
96 0160 1 |
97 0161 1 EXTERNAL ROUTINE
98 0162 1     LIB$AST_IN_PROG: ADDRESSING_MODE (GENERAL); ! TRUE if AST in progress
```

```
100 0163 1 %SBTTL 'FOR$ERRSNS'
101 0164 1 GLOBAL ROUTINE FOR$ERRSNS (
102 0165 1     FORT_ERR_NO,           ! Optional adr. to get FORTRAN error no.
103 0166 1     RMS_STS,           ! Optional adr. to get RMS status
104 0167 1     RMS_STV,           ! Optional adr. to get RMS/VMS value
105 0168 1     FORT_LUN,         ! Optional adr. to get FORTRAN logical unit number
106 0169 1     VAX_T1_COND_VAL) ! Optional adr. to get VAX-11 condition value
107 0170 1     :NOVALDE =         ! No value returned
108 0171 1
109 0172 1 ++
110 0173 1     FUNCTIONAL DESCRIPTION:
111 0174 1
112 0175 1     Returns information about last FORTRAN error, if any, and clears it to 0
113 0176 1     Separate data bases are kept for AST and non-AST level
114 0177 1     so that they do not conflict. That is the last error returned
115 0178 1     is that which occurred at the level of the caller (AST level
116 0179 1     or not AST level). Therefore a modular re-entrant procedure
117 0180 1     can CALL FOR$ERRSNS and still remain AST re-entrant
118 0181 1     provided that FOR$ERRSNS is called after an I/O statement
119 0182 1     with no intervening calls (which might call FOR$ERRSNS).
120 0183 1     All parameters are optional. A call with no parameters
121 0184 1     has the effect of clearing the error information at the current level.
122 0185 1     It is good practice to CALL FOR$ERRSNS before doing
123 0186 1     I/O to initialize the OWN storage. Otherwise a previous
124 0187 1     I/O error may have left error information in the OWN storage.
125 0188 1     Note: successful I/O operations do not affect the
126 0189 1     error information OWN storage.
127 0190 1     FORMAL PARAMETERS:
128 0191 1
129 0192 1     [FORT_ERR_NO.wlu.r     Optional adr. to receive FORTRAN error no.
130 0193 1     [RMS_STS.wlu.r       Optional adr. to receive RMS status
131 0194 1     [RMS_STV.wlu.r       Optional adr. to receive RMS/VMS value
132 0195 1     [FORT_LUN.wlu.r     Optional adr. to receive FORTRAN logical unit no.
133 0196 1     [VAX_T1_COND_VAL.wlc.r]]]] Optional adr. to receive VAX-11 condition value
134 0197 1
135 0198 1     IMPLICIT INPUTS:
136 0199 1
137 0200 1     VMS info whether an AST is in progress or not (using LIB$AST_IN_PROG)
138 0201 1     Either LAST_ERROR_INFO vector or LAST_AST_INFO vector
139 0202 1
140 0203 1     IMPLICIT OUTPUTS:
141 0204 1
142 0205 1     Either LAST_ERROR_INFO vector or LAST_AST_INFO vector is cleared
143 0206 1     depending on the level of the caller (AST or in progress or not)
144 0207 1
145 0208 1     ROUTINE VALUE:
146 0209 1     COMPLETION CODES:
147 0210 1
148 0211 1     NONE
149 0212 1
150 0213 1     SIDE EFFECTS:
151 0214 1
152 0215 1     The OWN storage used to remember the last error is set to 0.
153 0216 1     --
154 0217 1
155 0218 2     BEGIN
156 0219 2
```

```

157 0220 2 BUILTIN NULLPARAMETER, ACTUALPARAMETER;
158 0221 2
159 0222 2 LOCAL
160 0223 2 LAST_INFO: REF VECTOR[NPARAMAX+1, LONG]; ! Base pointer to either LAST_ERROR_INFO or LAST_AST_INFO
161 0224 2
162 0225 2
163 0226 2
164 0227 2
165 C228 2
166 0229 2
167 0230 2
168 0231 2 LAST_INFO = (IF LIB$AST_IN_PROG () THEN LAST_AST_INFO ELSE LAST_ERROR_INFO);
169 0232 2
170 0233 2
171 0234 2
172 0235 2
173 0236 2
174 0237 2
175 0238 2 INCR I FROM 1 TO NPARAMAX DO
176 0239 3 BEGIN
177 0240 3 IF NOT NULLPARAMETER (.I) THEN ACTUALPARAMETER(.I) = .LAST_INFO[I];
178 0241 3 LAST_INFO[I] = 0;
179 0242 2 END;
180 0243 2
181 0244 2
182 0245 2
183 0246 2
184 0247 2
185 0248 2 RETURN
186 0249 1 END;

```

```

.TITLE FOR$ERRSNS FORTTRAN ERRSNS and save error info
.IDENT \1-003\

.PSECT _FOR$DATA, NOEXE, PIC, 2

0000 LAST_ERROR_INFO:
.BLKB 24
00018 LAST_AST_INFO:
.BLKB 24
00000000 00030 RECORD_ERROR_ADDR:
.LONG 0

.EXTRN LIB$AST_IN_PROG

.PSECT _FOR$CODE, NOWRT, SHR, PIC, 2

00000000G 00 0004 00000 .ENTRY FOR$ERRSNS, Save R2 : 0164
09 00 FB 00002 CALLS #0, LIB$AST_IN_PROG : 0231
52 00000000' 50 E9 00009 BLBC R0, 1$
07 11 00013 MOVAB LAST_AST_INFO, LAST_INFO
52 00000000' EF 9E 0000C BRB 2$
50 MOVAB LAST_ERROR_INFO, LAST_INFO : 0241
08 01 D0 0001C 2$: MOVL #1, I : 0240
00 ED 0001F 3$: CMPZV #0, #8, (AP), I
0D 19 00024 BLSS 4$

```

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6C

FOR\$ERRSNS
1-003

FORTRAN ERRSNS and save error info
FOR\$ERRSNS

N 6
16-Sep-1984 00:21:34 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:31:56 [FORRTL.SRC]FORERRSNS.B32;1

Page 5
(3)

FOR
1-0

		6C40	D5	00026	TSTL	(AP)[I]	:
		08	13	00029	BEQL	4\$:
	51	6C40	D0	0002B	MOVL	(AP)[I], R1	:
	61	6240	D0	0002F	MOVL	(LAST_INFO)[I], (R1)	:
		6240	D4	00033	CLRL	(LAST_INFO)[I]	:
E5		05	F3	00036	AOBLEQ	#5, I, 3\$: 0241
	50	04	0003A	RET			: 0238
							: 0249

; Routine Size: 59 bytes, Routine Base: _FOR\$CODE + 0000

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0250 1 %SBTTL 'FOR$ERRSNS W'
0251 1 GLOBAL ROUTINE FOR$ERRSNS_W (
0252 1     FORT_ERR_NO,      ! Optional adr. to get FORTRAN error no.
0253 1     RMS_STS,         ! Optional adr. to get RMS status
0254 1     RMS_STV,        ! Optional adr. to get RMS/VMS value
0255 1     FORT_LUN,       ! Optional adr. to get FORTRAN logical unit number
0256 1     VAX_T1 (COND_VAL) ! Optional adr. to get VAX-11 condition value
0257 1     :NOVALUE =      ! No value returned
0258 1
0259 1 ++
0260 1 FUNCTIONAL DESCRIPTION:
0261 1
0262 1     FOR$ERRSNS and FOR$ERRSNS_W are the same routines except
0263 1     for the data size returned.
0264 1     Returns information about last FORTRAN error, if any, and clears it to 0
0265 1     Separate data bases are kept for AST and non-AST level
0266 1     so that they do not conflict. That is the last error returned
0267 1     is that which occurred at the level of the caller (AST level
0268 1     or not AST level). Therefore a modular re-entrant procedure
0269 1     can CALL FOR$ERRSNS_W and still remain AST re-entrant
0270 1     provided that FOR$ERRSNS_W is called after an I/O statement
0271 1     with no intervening calls (which might call FOR$ERRSNS_W).
0272 1     All parameters are optional. A call with no parameters
0273 1     has the effect of clearing the error information at the current level.
0274 1     It is good practice to CALL FOR$ERRSNS_W before doing
0275 1     I/O to initialize the OWN storage. Otherwise a previous
0276 1     I/O error may have left error information in the OWN storage.
0277 1     Note: successful I/O operations do not affect the
0278 1     error information OWN storage.
0279 1 FORMAL PARAMETERS:
0280 1
0281 1     [FORT_ERR_NO.wwu.r   Optional adr. to receive FORTRAN error no.
0282 1     [RMS_STS.wwu.r       Optional adr. to receive RMS status
0283 1     [RMS_STV.wwu.r       Optional adr. to receive RMS/VMS value
0284 1     [FORT_LUN.wwu.r      Optional adr. to receive FORTRAN logical unit no.
0285 1     [VAX_T1_COND_VAL.wwu.r]]]] Optional adr. to receive VAX-11 condition value<15:0>
0286 1
0287 1 IMPLICIT INPUTS:
0288 1
0289 1     VMS info whether an AST is in progress or not (using LIB$AST_IN_PROG)
0290 1     Either LAST_ERROR_INFO vector or LAST_AST_INFO vector
0291 1
0292 1 IMPLICIT OUTPUTS:
0293 1
0294 1     Either LAST_ERROR_INFO vector or LAST_AST_INFO vector is cleared
0295 1     depending on the level of the caller (AST or in progress or not)
0296 1
0297 1 ROUTINE VALUE:
0298 1 COMPLETION CODES:
0299 1
0300 1     NONE
0301 1
0302 1 SIDE EFFECTS:
0303 1
0304 1     The OWN storage used to remember the last error is set to 0.
0305 1
0306 1
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: 245 0307 2 BEGIN
: 246 0308 2
: 247 0309 2 BUILTIN NULLPARAMETER, ACTUALPARAMETER;
: 248 0310 2
: 249 0311 2 LOCAL
: 250 0312 2 NPARMAX_LONGS: VECTOR[NPARMAX, LONG]; ! Five longwords to contain results from FOR$ERRSNS
: 251 0313 2
: 252 0314 2
: 253 0315 2
: 254 0316 2 |* Get ERRSNS data into longword LOCAL storage
: 255 0317 2 |*
: 256 0318 2
: 257 0319 2 FOR$ERRSNS (NPARMAX_LONGS[0], NPARMAX_LONGS[1], NPARMAX_LONGS[2],
: 258 0320 2 NPARMAX_LONGS[3], NPARMAX_LONGS[4]);
: 259 0321 2
: 260 0322 2 |*
: 261 0323 2 |* Copy longwords back to caller's word parameters
: 262 0324 2 |* Parameters are 1-origin, VECTOR is 0-origin.
: 263 0325 2 |*
: 264 0326 2
: 265 0327 2 INCR I FROM 1 TO NPARMAX DO
: 266 0328 2 IF NOT NULLPARAMETER (.I) THEN ACTUALPARAMETER(.I)<0,16> = .NPARMAX_LONGS[.I-1];
: 267 0329 2
: 268 0330 2 |*
: 269 0331 2 |* Return
: 270 0332 2 |*
: 271 0333 2
: 272 0334 2 RETURN
: 273 0335 1 END;

```

				0000 0000	.ENTRY FOR\$ERRSNS_W, Save nothing	: 0251
	SE		14 C2	00002	SUBL2 #20, SP	: 0320
		10	AE 9F	00005	PUSHAB NPARMAX_LONGS+16	: 0319
		10	AE 9F	00008	PUSHAB NPARMAX_LONGS+12	
		10	AE 9F	0000B	PUSHAB NPARMAX_LONGS+8	
		10	AE 9F	0000E	PUSHAB NPARMAX_LONGS+4	
		10	AE 9F	00011	PUSHAB NPARMAX_LONGS	
	AD	AF	05 FB	00014	CALLS #5, FOR\$ERRSNS	
		50	01 D0	00018	MOVL #1, I	: 0327
50	6C	08	00 ED	0001B 1\$:	CMPZV #0, #8, (AP), I	: 0328
			0E 19	00020	BLSS 2\$	
			6C40 D5	00022	TSTL (AP)[I]	
			09 13	00025	BEQL 2\$	
		51	6C40 D0	00027	MOVL (AP)[I], R1	
		61	FC AE40	F7 0002B	CVTLW NPARMAX_LONGS-4[I], (R1)	
	E7	50	05 F3	00030 2\$:	AOBLEQ #5, I, T\$	
			04 00034		RET	: 0335

; Routine Size: 53 bytes, Routine Base: _FOR\$CODE + 003B

```

275 0336 1 %SBTTL 'FOR$ERRSNS_SAV'
276 0337 1 GLOBAL ROUTINE FOR$ERRSNS_SAV (
277 0338 1     FORT_ERR_NO,          | FORTRAN error number (0:120) or 32-bit cond value
278 0339 1                     | for some other facility other than FOR$.
279 0340 1     RMS_STS,        | value to set RMS status
280 0341 1     RMS_STV,        | value to set RMS/VMS value
281 0342 1     FORT_LUN,      | value to set FORTRAN logical unit number
282 0343 1     VAX_T1_COND_VAL) | value to set VAX-11 condition value
283 0344 1     :NOVALUE =      | No value returned
284 0345 1
285 0346 1 ++
286 0347 1 FUNCTIONAL DESCRIPTION:
287 0348 1     Called on every error condition. Sets FORTRAN error info OWN storage
288 0349 1     for use in sub-sequent calls by FOR$ERRSNS and FOR$ERRSNS_W.
289 0350 1     Separate data bases are kept for AST and non-AST level
290 0351 1     so that they do not conflict. That is the last error returned
291 0352 1     is that which occurred at the level of the caller (AST level
292 0353 1     or not AST level). Therefore a modular re-entrant procedure
293 0354 1     can CALL FOR$ERRSNS_SAV and still remain AST re-entrant
294 0355 1     Note: successful I/O operations do not affect the
295 0356 1     error information OWN storage.
296 0357 1     Non-FORTRAN specific errors should be indicated with:
297 0358 1         FORT_ERR_NO = 32-bit condition value (not FOR$ facility)
298 0359 1         VAX_T1_COND_VAL = same, ie. OTSS FATINTERR, OTSS INTDATCOR
299 0360 1     In this case, the FORTRAN error number stored will be FOR$K_NOTFORSPE
300 0361 1     which has a value of 1 and indicated a non-FORTRAN specific error.
301 0362 1
302 0363 1 FORMAL PARAMETERS:
303 0364 1
304 0365 1     FORT_ERR_NO.rlu.v     value to specify FORTRAN error number (0:120)
305 0366 1                       | or 32-bit condition value for another facility error.
306 0367 1     RMS_STS.wlu.v        value to set RMS status
307 0368 1     RMS_STV.wlu.v        value to set RMS/VMS value
308 0369 1     FORT_LUN.wlu.v        value to set FORTRAN logical unit no.
309 0370 1     VAX_T1_COND_VAL.wlc.v | value to set VAX-11 condition value
310 0371 1
311 0372 1 IMPLICIT INPUTS:
312 0373 1
313 0374 1     VMS info whether an AST is in progress or not (using LIB$AST_IN_PROG)
314 0375 1
315 0376 1 IMPLICIT OUTPUTS:
316 0377 1
317 0378 1     Either LAST_ERROR_INFO vector or LAST_AST_INFO vector is set
318 0379 1     depending on the level of the caller (AST or in progress or not)
319 0380 1
320 0381 1 ROUTINE VALUE:
321 0382 1 COMPLETION CODES:
322 0383 1
323 0384 1     NONE
324 0385 1
325 0386 1 SIDE EFFECTS:
326 0387 1
327 0388 1     The OWN storage used to remember the last error is set.
328 0389 1 --
329 0390 1
330 0391 2 BEGIN
331 0392 2

```

```

332 0393 2 BUILTIN ACTUALPARAMETER;
333 0394 2
334 0395 2 MAP
335 0396 2 VAX_11_COND_VAL : BLOCK[4, BYTE]; ! Condition value
336 0397 2 LOCAL
337 0398 2 LAST_INFO: REF VECTOR[NPARAMAX+1, LONG]; ! Base pointer to either LAST_ERROR_INFO or LAST_AST_INFO
338 0399 2
339 0400 2
340 0401 2
341 0402 2 | +
342 0403 2 | Determine whether an AST is in progress or not and set up
343 0404 2 | base pointer LAST_INFO to point to OWN storage for that level.
344 0405 2 | -
345 0406 2 LAST_INFO = (IF LIB$AST_IN_PROG () THEN LAST_AST_INFO ELSE LAST_ERROR_INFO);
346 0407 2
347 0408 2 | +
348 0409 2 | Copy all formals to OWN storage
349 0410 2 | -
350 0411 2
351 0412 2 INCR I FROM 1 TO NPARAMAX DO
352 0413 2 LAST_INFO[I] = ACTUALPARAMETER(.I);
353 0414 2
354 0415 2 | +
355 0416 2 | Check FORTRAN error number, if already a 32-bit condition value
356 0417 2 | change to FOR$K_NOTFORSPE to indicate a non-FORTRAN specific error
357 0418 2 | (error number = 1).
358 0419 2 | -
359 0420 2
360 0421 2 IF .FORT_ERR_NO GTRU FOR$K_MAX_ERR
361 0422 2 THEN
362 0423 2 LAST_INFO[1] = FOR$K_NOTFORSPE;
363 0424 2
364 0425 2 | +
365 0426 2 | If the user is using ERRSET or ERRST, call back to RECORD_ERROR
366 0427 2 | in module COM$ERRSET_TST to record the error.
367 0428 2 | -
368 0429 2
369 0430 2 IF .RECORD_ERROR_ADDR NEQA 0
370 0431 2 THEN
371 0432 2 BLISS (.RECORD_ERROR_ADDR, .LAST_INFO [1]);
372 0433 2
373 0434 2 | +
374 0435 2 | Return
375 0436 2 | -
376 0437 2
377 0438 2 RETURN
378 0439 1 END;

```

```

00000000G 52 00000000' 0004 0000 .ENTRY FOR$$ERRSNS_SAV, Save R2 : 0337
00000000G 00 EF 9E 00002 MOVAB LAST_AST_INFO, R2 :
00000000G 05 00 FB 00009 CALLS #0, [LIB$AST_IN_PROG : 0406
00000000G 51 50 E9 00010 BLBC R0, 1$ :
00000000G 52 62 9E 00013 MOVAB LAST_AST_INFO, LAST_INFO :

```

	51		E8	04	11	00016		BRB	2\$			
	50			A2	9E	00018	1\$:	MOVAB		LAST_ERROR_INFO, LAST_INFO		
	6140			01	D0	0001C	2\$:	MUVL	#1			0413
F7	50			6C40	D0	0001F	3\$:	MOVL	(AP)[I], (LAST_INFO)[I]			
	50			05	F3	00024		AOBLEQ	#5, I, 3\$			
	0000005D		04	AC	D1	00028		CML	ORT_ERR_NO, #93			0421
				04	1B	00030		BLEQU	4\$			
	04	A1		01	D0	00032		MOVL	#1, 4(LAST_INFO)			0423
		50		18	A2	D0	00036	4\$:	MOVL	RECORD_ERROR_ADDR, R0		0430
				06	13	0003A		BEQL	5\$			
			04	A1	DD	0003C		PUSHL	4(LAST_INFO)			0432
	60			01	FB	0003F		CALLS	#1, (R0)			
				04	00042	5\$:		RET				0439

; Routine Size: 67 bytes, Routine Base: _FOR\$CODE + 0070

```

380 0440 1 %SBTTL'FOR$$INIT_ERRSET'
381 0441 1 GLOBAL ROUTINE FOR$$INIT_ERRSET (
382 0442 1   ROUTINE_ADDR
383 0443 1   ) :NOVACUE =
384 0444 1   !++
385 0445 1   ! FUNCTIONAL DESCRIPTION:
386 0446 1   !
387 0447 1   !   Called by COM_STARTUP in COM$$ERRSET_TST when ERRSET or ERRST
388 0448 1   !   has been included in the image. It passes the address of a routine
389 0449 1   !   (RECORD_ERROR) which we are to call whenever an I/O error occurs.
390 0450 1   !   This allows the ERRSET/ERRST table to keep informed of all I/O
391 0451 1   !   errors that occur, not just the ones that don't get trapped.
392 0452 1   !
393 0453 1   ! FORMAL PARAMETERS:
394 0454 1   !
395 0455 1   !   ROUTINE_ADDR   The address of the routine to call. This is stored
396 0456 1   !                   in our OWN storage RECORD_ERROR_ADDR.
397 0457 1   !
398 0458 1   ! IMPLICIT INPUTS:
399 0459 1   !
400 0460 1   !   NONE
401 0461 1   !
402 0462 1   ! IMPLICIT OUTPUTS:
403 0463 1   !
404 0464 1   !   The routine's address is stored in RECORD_ERROR_ADDR .
405 0465 1   !
406 0466 1   ! ROUTINE VALUE:
407 0467 1   !
408 0468 1   !   NONE
409 0469 1   !
410 0470 1   ! SIDE EFFECTS:
411 0471 1   !
412 0472 1   !   NONE
413 0473 1   ! --
414 0474 1   !
415 0475 2   ! BEGIN
416 0476 2   !
417 0477 2   !   !+
418 0478 2   !   ! Store the routine address.
419 0479 2   !   !-
420 0480 2   !
421 0481 2   !   RECORD_ERROR_ADDR = .ROUTINE_ADDR;
422 0482 2   !
423 0483 2   !   !+
424 0484 2   !   ! Return
425 0485 2   !   !-
426 0486 2   !
427 0487 2   ! RETURN
428 0488 1   ! END;

```

```

00000000' EF      04  AC  0000 00000
                        DO 00002
                        04 0000A

```

```

.ENTRY FOR$$INIT_ERRSET, Save nothing
MOVL  ROUTINE_ADDR, RECORD_ERROR_ADDR
RET

```

```

: 0441
: 0481
: 0488

```

: Routine Size: 11 bytes, Routine Base: _FOR\$CODE + 00B3

: 429 0489 1 END ! end of module
: 430 0490 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
_FOR\$DATA	52	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2)
_FOR\$CODE	190	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	0	0	581	00:01.0
-\$255\$DUA28:[FORRTL.OBJ]FORLIB.L32;1	711	2	0	52	00:00.6
-\$255\$DUA28:[FORRTL.OBJ]RTLLIB.L32;1	36	0	0	8	00:00.1

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS\$:FORERRSNS/OBJ=OBJ\$:FORERRSNS MSRC\$:FORERRSNS/UPDATE=(ENH\$:FORERRSNS
): Size: 190 code + 52 data bytes
: Run Time: 00:07.7
: Elapsed Time: 00:20.1
: Lines/CPU Min: 3798
: Lexemes/CPU-Min: 8945
: Memory Used: 50 pages
: Compilation Complete

0180 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
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Grid of terminal windows showing various VMS error messages and system status screens. The windows are arranged in 10 rows and 15 columns. Some visible titles include:

- FORFIND LIS
- FOREXITHA LIS
- FORENODEF LIS
- FORENCOMF LIS
- FORENDFIL LIS
- FORRRRSNS LIS
- FOREXIT LIS
- FORERROR LIS
- FORMTICP LIS
- FORENCOMO LIS
- FORINIDES LIS
- FORMTINT LIS
- FORIDATE LIS