



```
CCCCCCCC 000000 MM MM EEEEEEEEE RRRRRRR RRRRRRR TTTTTTTTT SSSSSSS TTTTTTTTT
CCCCCCCC 000000 MM MM EEEEEEEEE RRRRRRR RRRRRRR TTTTTTTTT SSSSSSS TTTTTTTTT
CC 00 00 MMM MMM EE RR RR RR RR TT SS SS TT
CC 00 00 MMM MMM EE RR RR RR RR TT SS SS TT
CC 00 00 MM MM MM EE RR RR RR RR TT SS SS TT
CC 00 00 MM MM MM EE RR RR RR RR TT SS SS TT
CC 00 00 MM MM MM EEEEEEE RRRRRRR RRRRRRR TT SSSSS TT
CC 00 00 MM MM MM EEEEEEE RRRRRRR RRRRRRR TT SSSSS TT
CC 00 00 MM MM MM EE RR RR RR RR TT SS SS TT
CC 00 00 MM MM MM EE RR RR RR RR TT SS SS TT
CC 00 00 MM MM MM EE RR RR RR RR TT SS SS TT
CC 00 00 MM MM MM EEEEEEEEE RRR RR RR RR RR TT SSSSSSS TT
CCCCCCCC 000000 MM MM EEEEEEEEE RRR RR RR RR RR TT SSSSSSS TT
CCCCCCCC 000000 MM MM EEEEEEEEE RRR RR RR RR RR TT SSSSSSS TT
.....
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```

```
LL IIIII SSSSSSS
LL IIIII SSSSSSS
LL II SS
LL II SS
LL II SS
LL II SS
LL II SSSSS
LL II SSSSS
LL II SS
LL II SS
LL II SS
LL II SS
LLLLLLLLL IIIII SSSSSSS
LLLLLLLLL IIIII SSSSSSS
```

```

1 0001 0 MODULE COMSERRTST (%TITLE'FORTRAN compatibility error test (ERRTST)')
2 0002 0 IDENT = '1-007' ; File: COMERRTST.B32 Edit: SBL1007
3 0003 0 LINKAGE (FORTRAN) ; Call-by-reference
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1
32 0032 1 **
33 0033 1 FACILITY: FORTRAN compatibility Library
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This module contains routine ERRTST to perform F4P-11 type
38 0038 1 compatible error checking.
39 0039 1
40 0040 1 ENVIRONMENT: User Mode - AST re-entrant
41 0041 1
42 0042 1 AUTHOR: Thomas N. Hastings, CREATION DATE: 14-Dec-1977
43 0043 1
44 0044 1 MODIFIED BY:
45 0045 1
46 0046 1 Thomas N. Hastings, 14-Dec-1977: VERSION 0
47 0047 1 00-01 - original
48 0048 1 00-10 - Call back with indirect. TNH 3-Jan-78.
49 0049 1 00-14 - PSECT F4PCOMPAT$CODE. TNH 5-Jan-78.
50 0050 1 00-15 - Fix MAXLIM. TNH 5-Jan-78.
51 0051 1 00-16 - Down count ERROR_COUNT. TNH 6-Jan-78
52 0052 1 00-17 - Math errors are continue type. TNH 6-Jan-78
53 0053 1 00-21 - remove debugging printing. TNH 9-Jan-78
54 0054 1
55 0055 1 Jonathan M. Taylor, 12-Jan-78: VERSION 1
56 0056 1 1-1 - original: break module COMSERSET IST into COMSERRTST, COMSERSET,
57 0057 1 and COMSERSET_TST. JMT 12-Jan-78

```

COMSERRTST  
1-007

FORTTRAN compatibility error test (ERRTST)

G 14  
16-Sep-1984 00:10:14  
14-Sep-1984 12:31:29

VAX-11 BLISS-32 V4.0-742  
[FORRTL.SRC]COMERRTST.B32;1

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```
: 58      0058 1 : 1-03 - Change REQUIRE files for VAX system build. DGP 28-Apr-78
: 59      0059 1 : 1-4  - Change file name to COMERRTST.B32, and change the names
: 60      0060 1 :      of the REQUIRE files similarly. JBS 14-NOV-78
: 61      0061 1 : 1-005 - Update the copyright notice. JBS 16-NOV-78
: 62      0062 1 : 1-006 - REQUIRE RTLPSECT instead of OTSMAC. JBS 07-DEC-78
: 63      0063 1 : 1-007 - Use prologue file. SBL 28-Jul-1983
: 64      0064 1 : --
```

```
66 0065 1 !  
67 0066 1 ! PROLOGUE FILE:  
68 0067 1 !  
69 0068 1 !  
70 0069 1 REQUIRE 'RTLIN:FORPROLOG'; ! FOR$ definitions  
71 0135 1 !  
72 0136 1 !  
73 0137 1 ! TABLE OF CONTENTS:  
74 0138 1 !  
75 0139 1 FORWARD ROUTINE  
76 0140 1 ERRTST: NOVALUE; ! FORTRAN compatibility CALL ERRTST  
77 0141 1 !  
78 0142 1 !  
79 0143 1 ! INCLUDE FILES:  
80 0144 1 !  
81 0145 1 !  
82 0146 1 REQUIRE 'RTLIN:COMEST'; ! COM$ERR_TAB fields  
83 0215 1 !  
84 0216 1 !  
85 0217 1 ! MACROS:  
86 0218 1 !  
87 0219 1 ! None  
88 0220 1 !  
89 0221 1 !  
90 0222 1 ! EQUATED SYMBOLS:  
91 0223 1 !  
92 0224 1 ! None  
93 0225 1 !  
94 0226 1 !  
95 0227 1 ! OWN STORAGE:  
96 0228 1 !  
97 0229 1 ! None  
98 0230 1 !  
99 0231 1 !  
100 0232 1 ! EXTERNAL DECLARATIONS:  
101 0233 1 !  
102 0234 1 EXTERNAL  
103 0235 1 COM$ERR_TAB: BLOCKVECTOR [FOR$K_MAX_ERR + 1, 1, BYTE] ADDRESSING_MODE (GENERAL);
```

```

105 0236 1 %SBTTL'ERRTST'
106 0237 1 GLOBAL ROUTINE ERRTST (
107 0238 1   FORT_ERR_NO,      ! Adr. of word containing error number
108 0239 1   OCCURRED)      ! Adr. of word to receive 1 (occurred) or 2 (has not occurred)
109 0240 1   :NOVALUE =    ! No value is returned
110 0241 1
111 0242 1 !+
112 0243 1 ! FUNCTIONAL DESCRIPTION:
113 0244 1
114 0245 1   The ERRTST subroutine tests for the occurrence of a specific
115 0246 1   error during program execution. FORT_ERR_NO specifies
116 0247 1   the FORTRAN error number and OCCURRED receives:
117 0248 1       1 if error number FORT_ERR_NO has occurred.
118 0249 1       2 if error number FORT_ERR_NO has not occurred
119 0250 1
120 0251 1   since the last CALL ERRTST for that error number.
121 0252 1   Thus the ERRTST subroutine resets the error flag for that
122 0253 1   error. All error flags are initially 0 when the image is started up.
123 0254 1
124 0255 1 FORMAL PARAMETERS:
125 0256 1
126 0257 1   FORT_ERR_NO.rw.r   Adr. of word containing FORTRAN error number
127 0258 1   OCCURRED.w.w.r     Adr. of word to received 1 or 2.
128 0259 1
129 0260 1 IMPLICIT INPUTS:
130 0261 1
131 0262 1   COM$$ERR_TAB byte table indexed by FORTRAN error number.
132 0263 1
133 0264 1 IMPLICIT OUTPUTS:
134 0265 1
135 0266 1   COM$$ERR_TAB byte table. Occurred flag is cleared for specified error number.
136 0267 1
137 0268 1 COMPLETION CODES:
138 0269 1
139 0270 1   NONE
140 0271 1
141 0272 1 SIDE EFFECTS:
142 0273 1
143 0274 1   Clears occurred bit in EXTERNAL COM$$ERR_TAB for specified
144 0275 1   FORTRAN error number.
145 0276 1 --
146 0277 1
147 0278 2 BEGIN
148 0279 2 MAP
149 0280 2   FORT_ERR_NO: REF VECTOR [1, WORD],      ! Pass word by reference
150 0281 2   OCCURRED: REF VECTOR [1, WORD];        ! Pass word by reference
151 0282 2 BUILTIN
152 0283 2   TESTBITSC;                             ! Test bit set then clear
153 0284 2
154 0285 2 !+
155 0286 2 ! Test occurred flag for this error then clear it.
156 0287 2 ! Return 1 if was set, 2 if was clear.
157 0288 2 !-
158 0289 2
159 0290 2 OCCURRED[0] = (IF TESTBITSC (COM$$ERR_TAB[FORT_ERR_NO[0], V_EC_OCCURRED]) THEN 1 ELSE 2);
160 0291 2 RETURN;
161 0292 1 END;                                     ! End of ERRTST

```

.TITLE COMSERRTST FORTTRAN compatibility error test (ERRTST)

.IDENT \1-007\

.EXTRN COM\$\$ERR\_TAB

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

.ENTRY ERRTST, Save nothing

```
MOVZWL @FORT_ERR_NO, R0
BBCC #7, COM$$ERR_TAB[R0], 1$
MOVL #1, R0
BRB 2$
MOVL #2, R0
MOVW R0, @OCCURRED
RET
```

```
: 0237
: 0290
:
:
:
:
: 0292
```

```
0000 0000
04 BC 3C 00002
05 00000000G0040 07 E5 00006
50 01 D0 0000F
03 11 00012
08 50 02 D0 00014 1$:
BC 50 B0 00017 2$:
04 0001B
```

: Routine Size: 28 bytes, Routine Base: \_FOR\$CODE + 0000

```
: 162 0293 1
: 163 0294 1
: 164 0295 1 END
: 165 0296 0 ELUDOM
```

PSECT SUMMARY

Name	Bytes	Attributes
_FOR\$CODE	28	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	5	0	581	00:01.0
-\$255\$DUA28:[FORRTL.OBJ]FORLIB.L32;1	711	1	0	52	00:00.5
-\$255\$DUA28:[FORRTL.OBJ]RTLLIB.L32;1	36	0	0	8	00:00.1

COMMAND QUALIFIERS

COMERRTST  
1-007

FORTRAN compatibility error test (ERRTST)  
ERRTST

K 14  
16-Sep-1984 00:10:14  
14-Sep-1984 12:31:29

VAX-11 Bliss-32 V4.0-742  
[FORRTL.SRC]COMERRTST.B32;1

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

: Size: 28 code + 0 data bytes  
: Run Time: 00:04.1  
: Elapsed Time: 00:16.7  
: Lines/CPU Min: 4289  
: Lexemes/CPU-Min: 8594  
: Memory Used: 35 pages  
: Compilation Complete



