



```

CCCCCCCC 000000 MM MM EEEEEEEEE EEEEEEEEE RRRRRRR RRRRRRR TTTTTTTTT SSSSSSS TTTTTTTTT
CCCCCCCC 000000 MM MM EEEEEEEEE EEEEEEEEE RRRRRRR RRRRRRR TTTTTTTTT SSSSSSS TTTTTTTTT
CC 00 00 MMM MMM EE EE RR RR RR RR TT SS SSSSSS TT
CC 00 00 MMM MMM EE EE RR RR RR RR TT SS SSSSSS TT
CC 00 00 MM MM EE EE RR RR RR RR TT SS SSSSSS TT
CC 00 00 MM MM EE EE RR RR RR RR TT SS SSSSSS TT
CC 00 00 MM MM EE EE RR RR RR RR TT SS SSSSSS TT
CC 00 00 MM MM EE EE RR RR RR RR TT SS SSSSSS TT
CC 00 00 MM MM EE EE RR RR RR RR TT SS SSSSSS TT
CC 00 00 MM MM EE EE RR RR RR RR TT SS SSSSSS TT
CCCCCCCC 000000 MM MM EEEEEEEEE EEEEEEEEE RRRRRRR RRRRRRR TTTTTTTTT SSSSSSS TTTTTTTTT
CCCCCCCC 000000 MM MM EEEEEEEEE EEEEEEEEE RRRRRRR RRRRRRR TTTTTTTTT SSSSSSS TTTTTTTTT

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LL IIIIII SSSSSSS
LL IIIIII SSSSSSS
LL II SS
LL II SS
LL II SS
LL II SS
LL II SSSSSS
LL II SSSSSS
LL II SS
LL II SS
LL II SS
LLLLLLLLL IIIIII SSSSSSS
LLLLLLLLL IIIIII SSSSSSS

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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
11 0011 1
12 0012 1
13 0013 1
14 0014 1
15 0015 1
16 0016 1
17 0017 1
18 0018 1
19 0019 1
20 0020 1
21 0021 1
22 0022 1
23 0023 1
24 0024 1
25 0025 1
26 0026 1
27 0027 1
28 0028 1
29 0029 1
30 0030 1
31 0031 1
32 0032 1
33 0033 1
34 0034 1
35 0035 1
36 0036 1
37 0037 1
38 0038 1
39 0039 1
40 0040 1
41 0041 1
42 0042 1
43 0043 1
44 0044 1
45 0045 1
46 0046 1
47 0047 1
48 0048 1
49 0049 1
50 0050 1
51 0051 1
52 0052 1
53 0053 1
54 0054 1
55 0055 1
56 0056 1
57 0057 1

```

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++  
 FACILITY: FORTRAN compatibility Library  
 ABSTRACT:  
 This module contains routine ERRTST to perform F4P-11 type  
 compatible error checking.  
 ENVIRONMENT: User Mode - AST re-entrant  
 AUTHOR: Thomas N. Hastings, CREATION DATE: 14-Dec-1977  
 MODIFIED BY:  
 Thomas N. Hastings, 14-Dec-1977: VERSION 0  
 00-01 - original  
 00-10 - Call back with indirect. TNH 3-Jan-78.  
 00-14 - PSECT F4PCOMPAT\$CODE. TNH 5-Jan-78.  
 00-15 - Fix MAXLIM. TNH 5-Jan-78.  
 00-16 - Down count ERROR\_COUNT. TNH 6-Jan-78  
 00-17 - Math errors are continue type. TNH 6-Jan-78  
 00-21 - remove debugging printing. TNH 9-Jan-78  
 Jonathan M. Taylor, 12-Jan-78: VERSION 1  
 1-1 - original: break module COMSERRSET TST into COMSERRTST, COMSERRSET,  
 and COMSERRSET\_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 : --
```

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: 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.ww.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
```



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

