int_el®

FORTRAN-86 V3.0 CAUTION LIST
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product release notes

1. Problem:

The compiler generates an incorrect call address
for a function which references itself recursively.

Solution:

Change the function to a subroutine and pass the return
value in a variable.

2. Problem:

The compiler incorrectly issues a warning message
"WARNING: F183 PARAMETER TYPE MISMATCH WITH EARLIER
INVOCATION OF PROCEDURE" for the second and subsequent
references to a procedures or a function which has been
specified in the INTERFACE control.

Solution:

Check that the parameters are correct and ignore the warning.

3. Problem:

Reading or writing a logical variable using an A format
descriptor will only transfer the least significant byte
of the logical variable.

Solution:

Use an integer variable in this situation.

4. Problem:

Integer constants used in expressions in the I/O list
of a PRINT or WRITE statement have a length which is
the minimum required to contain the variable, not the
default integer length.

Solution:

This should not cause a problem unless you are using
the Z or B format descriptors. If you are using the
Z or B format descriptors, use the INT intrinsic function
to force these constants to the default length.

5. Problem:

If the limit plus the increment of a DO loop exceeds
the range of the index variable, the DO loop will not
terminate.

Solution:

Use a larger index variable or change the DO loop so that
this will not occur.

6.   Problem:

The compiler will generate incorrect code for an expression
which causes an INTEGER*1 expression to be coerced to
floating point if a previous integer expression has been
coerced to floating point.

7.   Problem:

The compiler generates incorrect code when the INT4 intrinsic
(or the INT intrinsic when the STORAGE(INTEGER*4) control is
specified) is used in an expression or assignment which causes
the result of the intrinsic to be coerced to floating point
and the argument to the intrinsic is any INTEGER*4 constant or
a negative INTEGER*1 or INTEGER*2 constant.

Solution:

Remove the INT or INT4 reference since it is not necessary
in this case.

8.   Problem:

The compiler issues the error message " ERROR: F181
INSUFFICIENT SIZE FOR ASSIGN VARIABLE", when assigning
a format label to an INTEGER*2 variable or using an
INTEGER*2 variable as the format specifier in an I/O
statement.

Solution:

Use an INTEGER*4 variable in this situation.

9.   Problem:

The compiler will not delete a file which is opened
with STATUS = 'NEW' and close with STATUS = 'DELETE'.
(in iRMX-86 environment only)

10.   Problem:

The compiler issues error message "F174: UNKNOWN CONTROL
IN SOURCE NEAR" when compiling a program which contains
compiler control (with argument) at source level.

Solution:

This happens only with iRMX-86 Release 6.0 with update
1.0 or later. To avoid this problem either use iRMX-86
update 0.0 or update 1.0 without zap 18 and 19.