1 SUMMARY

This package provides kind values for 1- and 2-byte Fortran 90 LOGICAL variables. If a particular kind is not supported, a kind offering at least as much storage is substituted.


2 HOW TO USE THE PACKAGE

Access to the package requires a USE statement such as

USE HSL_ZA03

2.1 Module constants

ZA03_1BYTE is a scalar constant of type default INTEGER. If one-byte logicals are supported, ZA03_1BYTE holds the kind value for a LOGICAL of this data type. Otherwise, ZA03_1BYTE holds the kind value of a LOGICAL offering at least as much storage.

ZA03_2BYTE is a scalar constant of type default INTEGER. If two-byte logicals are supported, ZA03_2BYTE holds the kind value for a LOGICAL of this data type. Otherwise, ZA03_2BYTE holds the kind value of a LOGICAL offering at least as much storage.

3 GENERAL INFORMATION

Use of common: None.

Other modules used directly: None.

Input/output: None.

Restrictions: None.

4 EXAMPLE

The following piece of code writes out the kind values for 1- and 2-byte logical variables.

PROGRAM HSL_ZA03_SPEC
  USE HSL_ZA03
  IMPLICIT NONE
  WRITE( 6, "( ' kind(1 byte logical) = ', I2 )" ) ZA03_1BYTE
  WRITE( 6, "( ' kind(2 byte logical) = ', I2 )" ) ZA03_2BYTE
END PROGRAM HSL_ZA03_SPEC

This produces the following output when compiled with the IBM xlf90 compiler. N.B. Other compilers may give different values.

kind(1 byte logical) = 1
kind(2 byte logical) = 2