NAME

dfloat − Integer to double-precision

SYNOPSIS

Fortran (77, 90, 95, HPF):

f77 *[flags] file(s) . . . -L/usr/local/lib -lgjl*

DOUBLE PRECISION FUNCTION dfloat(n)

C (K&R, 89, 99), C++ (98):

cc *[flags] -I/usr/local/include file(s) . . . -L/usr/local/lib -lgjl*

Use

#include <gampsi.h>

to get this prototype:

fortran_double_precision dfloat(const fortran_integer * n_);

NB: The definition of C/C++ data types **fortran_** *xxx*, and the mapping of Fortran external names to C/C++ external names, is handled by the C/C++ header file. That way, the same function or subroutine name can be used in C, C++, and Fortran code, independent of compiler conventions for mangling of external names in these programming languages.

Last code modification: 12-Dec-1999

DESCRIPTION

Return the integer **n** converted to double-precision floating-point.

Although almost all Fortran 66 and 77 implementations provide this function, it was regrettably omitted from both Fortran 66 and 77 language standards.

SEE ALSO

qfloat(3).

AUTHORS

The algorithms and code are described in detail in the paper

Algorithm xxx: Quadruple-Precision Gamma(x) and psi(x) Functions for Real Arguments

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