

NAME

qepsln – Quadruple-precision epsilon

SYNOPSIS

Fortran (77, 90, 95, HPF):

```
f77 [ flags ] file(s) ... -L/usr/local/lib -lgjl
      REAL*16 FUNCTION QEPSLN (X)
      REAL*16 X
```

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_quadruple_precision qepsln(const fortran_quadruple_precision *x_);
```

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.

DESCRIPTION

Return the smallest representable number, ε , such that $(x + \varepsilon)$ differs from x .

This function is borrowed from a quadruple-precision version of the EISPACK library.