

**NAME**

iceil – Ceiling of single-precision x

**SYNOPSIS**

Fortran (77, 90, 95, HPF):

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

```
INTEGER FUNCTION iceil(x)
```

```
REAL 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_integer iceil(const fortran_real * 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.

Last code modification: 03-Jun-2000

**DESCRIPTION**

Return the least integer  $\geq x$ .

**SEE ALSO**

**idceil(3)**, **iqceil(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*

in ACM Transactions on Mathematical Software, Volume ??, Number ??, Pages ???-??? and ???-???, 2001, by

Nelson H. F. Beebe

Center for Scientific Computing

University of Utah

Department of Mathematics, 110 LCB

155 S 1400 E RM 233

Salt Lake City, UT 84112-0090

Tel: +1 801 581 5254

FAX: +1 801 581 4148

Email: [beebe@math.utah.edu](mailto:beebe@math.utah.edu), [beebe@acm.org](mailto:beebe@acm.org), [beebe@computer.org](mailto:beebe@computer.org)

WWW URL: <http://www.math.utah.edu/~beebe>

and

James S. Ball

University of Utah

Department of Physics

Salt Lake City, UT 84112-0830

USA

Tel: +1 801 581 8397

FAX: +1 801 581 6256

Email: [ball@physics.utah.edu](mailto:ball@physics.utah.edu)

WWW URL: <http://www.physics.utah.edu/people/faculty/ball.html>