NAME

gamma — log gamma function

SYNOPSIS

#include <math.h>

double gamma (x)
double x;

DESCRIPTION

Gamma returns $ln\,|\Gamma(\,|x|\,)|$. The sign of $\Gamma(|x|)$ is returned in the external integer *signgam*. The following C program fragment might be used to calculate Γ:

```
y = gamma (x);
if (y > 88.0)
        error ();
y = exp (y) * signgam;
```

DIAGNOSTICS

A huge value is returned for negative integer arguments.

BUGS

There should be a positive indication of error.