

NAME

gamma – log gamma function

SYNOPSIS

```
jsr      r5,gamma
double gamma(x)
double x;
```

DESCRIPTION

If x is passed (in fr0) *gamma* returns $\ln |\Gamma(x)|$ (in fr0). The sign of $\Gamma(x)$ is returned in the external integer *signgam*. The following C program might be used to calculate Γ :

```
y = gamma(x);
if (y > 88.)
    error();
y = exp(y);
if(signgam)
    y = -y;
```

DIAGNOSTICS

The c-bit is set on negative integral arguments and the maximum value is returned. There is no error return for C programs.

BUGS

No error return from C.