

NAME

pow – floating exponentiation

SYNOPSIS

```
movf    x,fr0
movf    y,fr1
jsr     pc,pow

double pow(x,y)
double x, y;
```

DESCRIPTION

Pow returns the value of x^y (in fr0). *Pow*(0.0, *y*) is 0 for any *y*. *Pow*(−*x*, *y*) returns a result only if *y* is an integer.

SEE ALSO

exp(III), log(III).

DIAGNOSTICS

The carry bit is set on return in case of overflow, *pow*(0.0, 0.0), or *pow*(−*x*, *y*) for non-integral *y*. From C there is no diagnostic.