

POW(III)

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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.

BUGS