ATAN(III)   ATAN(III)

NAME

atan, atan2 — arc tangent function

SYNOPSIS

jsr   pc,atan
jsr   pc,atan2

double atan(x)
double x;

double atan2(x, y)
double x, y;

DESCRIPTION

The *atan* entry returns the arc tangent of fr0 in fr0; from C, the arc tangent of x is returned. The range is $-\pi/2$ to $\pi/2$. The *atan2* entry returns the arc tangent of fr0/fr1 in fr0; from C, the arc tangent of x/y is returned. The range is $-\pi$ to π.

DIAGNOSTIC

There is no error return.

BUGS