

NAME

atan, atan2 – arc tangent function

SYNOPSIS

```
jsr pc,atan[2]
```

```
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