

NAME

atan – arc tangent function

SYNOPSIS

```
jsr  r5,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