



Rocky Enterprise Linux 9.2 Manual Pages on command 'asin.3'

C:\>man asin.3

ASIN(3) Linux Programmer's Manual ASIN(3)

NAME

asin, asinf, asinl - arc sine function

SYNOPSIS

```
#include <math.h>
```

```
double asin(double x);
```

```
float asinf(float x);
```

```
long double asinl(long double x);
```

Link with -lm.

Feature Test Macro Requirements for glibc (see feature_test_macros(7)):

asinf(), asinl():

```
_ISOC99_SOURCE || _POSIX_C_SOURCE >= 200112L
```

```
|| /* Since glibc 2.19: */ _DEFAULT_SOURCE
```

```
|| /* Glibc versions <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

DESCRIPTION

These functions calculate the principal value of the arc sine of x ; that is the value whose sine is x .

RETURN VALUE

On success, these functions return the principal value of the arc sine of x in radians; the return value is in the range $[-\pi/2, \pi/2]$.

If x is a NaN, a NaN is returned.

If x is $+0$ (-0), $+0$ (-0) is returned.

