



Linux Ubuntu 26.04 Manual Pages on command 'log1p.3'

\$ man log1p.3

log1p(3) Library Functions Manual log1p(3)

NAME

log1p, log1pf, log1pl - logarithm of 1 plus argument

LIBRARY

Math library (libm, -lm)

SYNOPSIS

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

```
double log1p(double x);
```

```
float log1pf(float x);
```

```
long double log1pl(long double x);
```

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

log1p():

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

```
|| _XOPEN_SOURCE >= 500
```

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

```
|| /* glibc <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

log1pf(), log1pl():

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

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

```
|| /* glibc <= 2.19: */ _BSD_SOURCE || _SVID_SOURCE
```

DESCRIPTION

These functions return a value equivalent to

$\log(1 + x)$

Before glibc 2.22, the glibc implementation did not set `errno` to `ERANGE` when a range error occurred.

SEE ALSO

`exp(3)`, `expm1(3)`, `log(3)`

Linux man-pages 6.17

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`log1p(3)`