



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

Page 1/2

STANDARDS

C11, POSIX.1-2008.

HISTORY

glibc 2.1. C99, POSIX.1-2001.

EXAMPLES

```
/* Link with "-lm" */

#include <complex.h>

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

int

main(int argc, char *argv[])

{

    double complex z, c, f;

    double complex i = I;

    if (argc != 3) {

        fprintf(stderr, "Usage: %s <real> <imag>\n", argv[0]);

        exit(EXIT_FAILURE);

    }

    z = atof(argv[1]) + atof(argv[2]) * I;

    c = catan(z);

    printf("catan() = %6.3f %6.3f*i\n", creal(c), cimag(c));

    f = (clog(1 + i * z) - clog(1 - i * z)) / (2 * i);

    printf("formula = %6.3f %6.3f*i\n", creal(f), cimag(f));

    exit(EXIT_SUCCESS);

}
```

SEE ALSO

ccos(3), clog(3), ctan(3), complex(7)

Linux man-pages 6.17

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catan(3)