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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'exp.3' command

\$ n	nan exp.3			
EXP(3)		Linux Programmer's Manual	EXP(3)	
NA	ME			
	exp, expf, expl	- base-e exponential function		
SY	NOPSIS			
	#include <math< td=""><td>.h></td><td></td><td></td></math<>	.h>		
	double exp(dou	ble x);		
	float expf(float >	<);		
	long double expl(long double x);			
	Link with -Im.			
F	eature Test Mac	ure_test_macros(7)):		
	expf(), expl():			
	_ISOC99_SOURCE _POSIX_C_SOURCE >= 200112L			
	/* Since	glibc 2.19: */ _DEFAULT_SOURCE	E	
	/* Glibc v	versions <= 2.19: */ _BSD_SOURC	E _SVID_SOURCE	
DE	SCRIPTION			
	These function	s return the value of e (the base of	natural logarithms)	
	raised to the po	wer of x.		
RE	TURN VALUE			
	On success, the	ese functions return the exponentia	I value of x.	
	If x is a NaN, a	NaN is returned.		
	If x is positive in	nfinity, positive infinity is returned.		
	If x is negative i	infinity, +0 is returned.		

If the result underflows, a range error occurs, and zero is returned.

If the result overflows, a range error occurs, and the functions return

+HUGE_VAL, +HUGE_VALF, or +HUGE_VALL, respectively.

ERRORS

See math_error(7) for information on how to determine whether an error

has occurred when calling these functions.

The following errors can occur:

Range error, overflow

errno is set to ERANGE. An overflow floating-point exception

(FE_OVERFLOW) is raised.

Range error, underflow

errno is set to ERANGE. An underflow floating-point exception

(FE_UNDERFLOW) is raised.

ATTRIBUTES

For an explanation of the terms used in this section, see at? tributes(7).

?Interface ? Attribute ? Value ?

?exp(), expf(), expl() ? Thread safety ? MT-Safe ?

CONFORMING TO

C99, POSIX.1-2001, POSIX.1-2008.

The variant returning double also conforms to SVr4, 4.3BSD, C89.

SEE ALSO

cbrt(3), cexp(3), exp10(3), exp2(3), expm1(3), sqrt(3)

COLOPHON

This page is part of release 5.10 of the Linux man-pages project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.

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