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

$ man __setfpucw.3

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

NAME

__setfpucw - set FPU control word on i386 architecture (obsolete)

SYNOPSIS

#include <i386/fpu_control.h>

void __setfpucw(unsigned short control_word);

DESCRIPTION

__setfpucw() transfers control_word to the registers of the FPU (float?

ing-point unit) on the i386 architecture. This was used to control

floating-point precision, rounding and floating-point exceptions.

CONFORMING TO

This function was a nonstandard GNU extension.

NOTES

As of glibc 2.1 this function does not exist anymore. There are new

functions from C99, with prototypes in <fenv.h>, to control FPU round?

ing modes, like fegetround(3), fesetround(3), and the floating-point

environment, like fegetenv(3), feholdexcept(3), fesetenv(3), feupda?

teenv(3), and FPU exception handling, like feclearexcept(3), fegetex?

ceptflag(3), feraiseexcept(3), fesetexceptflag(3), and fetestexcept(3).

If direct access to the FPU control word is still needed, the

_FPU_GETCW and _FPU_SETCW macros from <fpu_control.h> can be used.

EXAMPLES

__setfpucw(0x1372)

Set FPU control word on the i386 architecture to

- extended precision
- rounding to nearest
- exceptions on overflow, zero divide and NaN

SEE ALSO

feclearexcept(3)

<fpu_control.h>

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/.