NAME

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

LIBRARY

Standard C library (*libc*, *−lc*)

SYNOPSIS

#include <i386/fpu_control.h>

[[deprecated]] void __setfpucw(unsigned short *control_word***);**

DESCRIPTION

__setfpucw() transfers *control_word* to the registers of the FPU (floating-point unit) on the i386 architecture. This was used to control floating-point precision, rounding and floating-point exceptions.

STANDARDS

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 rounding modes, like **fegetround**(3), **fesetround**(3), and the floating-point environment, like **fegetenv**(3), **feholdexcept**(3), **fesetenv**(3), **feupdateenv**(3), and FPU exception handling, like **feclearexcept**(3), **fegetexceptflag**(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*>