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 (floating-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 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.

EXAMPLE

__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

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