

**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)`, `fehldexcept(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**

This page is part of release 5.05 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/>.