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Rocky Enterprise Linux 9.2 Manual Pages on command '___setfpucw.3'

\$ man ___setfpucw.3

___SETPUCW(3) Linux Programmer's Manual ___SETPUCW(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 (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), 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/>.

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