



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

C:\>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), feupdateenv(3), and FPU exception handling, like fe?clearexcept(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/>.

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