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Red Hat Enterprise Linux Release 9.2 Manual Pages on 'feupdateenv.3p' command

\$ man feupdateenv.3p

FEUPDATEENV(3P) POSIX Programmer's Manual FEUPDATEENV(3P)

PROLOG

This manual page is part of the POSIX Programmer's Manual. The Linux implementation of this interface may differ (consult the corresponding Linux manual page for details of Linux behavior), or the interface may not be implemented on Linux.

NAME

feupdateenv ? update floating-point environment

SYNOPSIS

```
#include <fenv.h>

int feupdateenv(const fenv_t *envp);
```

DESCRIPTION

The functionality described on this reference page is aligned with the ISO C standard. Any conflict between the requirements described here and the ISO C standard is unintentional. This volume of POSIX.1?2017 defers to the ISO C standard.

The feupdateenv() function shall attempt to save the currently raised floating-point exceptions in its automatic storage, attempt to install the floating-point environment represented by the object pointed to by envp, and then attempt to raise the saved floating-point exceptions. The argument envp shall point to an object set by a call to feholdexcept() or fegetenv(), or equal a floating-point environment macro.

RETURN VALUE

The feupdateenv() function shall return a zero value if and only if all the required actions were successfully carried out.

ERRORS

No errors are defined.

The following sections are informative.

EXAMPLES

The following example shows sample code to hide spurious underflow floating-point exceptions:

```
#include <fenv.h>

double f(double x)
{
    #pragma STDC FENV_ACCESS ON
    double result;
    fenv_t save_env;
    feholdexcept(&save_env);
    // compute result
    if (/* test spurious underflow */)
        feclearexcept(FE_UNDERFLOW);
    feupdateenv(&save_env);
    return result;
}
```

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

fegetenv(), feholdexcept()

The Base Definitions volume of POSIX.1-2017, <fenv.h>

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