



*Full credit is given to the above companies including the OS that this PDF file was generated!*

## ***Red Hat Enterprise Linux Release 9.2 Manual Pages on 'fetestexcept.3p' command***

### ***\$ man fetestexcept.3p***

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

`fetestexcept ?` test floating-point exception flags

#### SYNOPSIS

```
#include <fenv.h>

int fetestexcept(int excepts);
```

#### 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 `fetestexcept()` function shall determine which of a specified subset of the floating-point exception flags are currently set. The `excepts` argument specifies the floating-point status flags to be queried.

#### RETURN VALUE

The `fetestexcept()` function shall return the value of the bitwise-inclusive OR of the floating-point exception macros corresponding to the currently set floating-point exceptions included in `excepts`.

## ERRORS

No errors are defined.

The following sections are informative.

## EXAMPLES

The following example calls function f() if an invalid exception is set, and then function g() if an overflow exception is set:

```
#include <fenv.h>

/* ... */

{

    #pragma STDC FENV_ACCESS ON

    int set_excepts;

    feclearexcept(FE_INVALID | FE_OVERFLOW);

    // maybe raise exceptions

    set_excepts = fetestexcept(FE_INVALID | FE_OVERFLOW);

    if (set_excepts & FE_INVALID) f();

    if (set_excepts & FE_OVERFLOW) g();

    /* ... */

}
```

## APPLICATION USAGE

None.

## RATIONALE

None.

## FUTURE DIRECTIONS

None.

## SEE ALSO

feclearexcept(), fegetexceptflag(), feraiseexcept()

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

## COPYRIGHT

Portions of this text are reprinted and reproduced in electronic form from IEEE Std 1003.1-2017, Standard for Information Technology -- Portable Operating System Interface (POSIX), The Open Group Base Specifications Issue 7, 2018 Edition, Copyright (C) 2018 by the Institute of Electrical and Electronics Engineers, Inc and The Open Group. In the

event of any discrepancy between this version and the original IEEE and The Open Group Standard, the original IEEE and The Open Group Standard is the referee document. The original Standard can be obtained online at <http://www.opengroup.org/unix/online.html> .

Any typographical or formatting errors that appear in this page are most likely to have been introduced during the conversion of the source files to man page format. To report such errors, see [https://www.kernel.org/doc/man-pages/reporting\\_bugs.html](https://www.kernel.org/doc/man-pages/reporting_bugs.html) .

IEEE/The Open Group

2017

FETESTEXCEPT(3P)