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

\$ man assert.3p

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

assert ? insert program diagnostics

SYNOPSIS

```
#include <assert.h>

void assert(scalar expression);
```

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 `assert()` macro shall insert diagnostics into programs; it shall expand to a void expression. When it is executed, if `expression` (which shall have a scalar type) is false (that is, compares equal to 0), `assert()` shall write information about the particular call that failed on `stderr` and shall call `abort()`.

The information written about the call that failed shall include the text of the argument, the name of the source file, the source file line

number, and the name of the enclosing function; the latter are, respectively, the values of the preprocessing macros `__FILE__` and `__LINE__` and of the identifier `__func__`.

Forcing a definition of the name `NDEBUG`, either from the compiler command line or with the preprocessor control statement `#define NDEBUG` ahead of the `#include <assert.h>` statement, shall stop assertions from being compiled into the program.

RETURN VALUE

The `assert()` macro shall not return a value.

ERRORS

No errors are defined.

The following sections are informative.

EXAMPLES

None.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

SEE ALSO

`abort()`, `stdin`

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

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2017

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