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

$ man assert.3

ASSERT(3) Linux Programmer's Manual ASSERT(3)

NAME

assert - abort the program if assertion is false

SYNOPSIS

#include <assert.h>

void assert(scalar expression);

DESCRIPTION

This macro can help programmers find bugs in their programs, or handle exceptional cases via a crash that will produce limited debugging out? put.

If expression is false (i.e., compares equal to zero), assert() prints an error message to standard error and terminates the program by call? ing abort(3). The error message includes the name of the file and function containing the assert() call, the source code line number of the call, and the text of the argument; something like:

prog: some_file.c:16: some_func: Assertion `val == 0' failed.

If the macro NDEBUG is defined at the moment <assert.h> was last in? cluded, the macro assert() generates no code, and hence does nothing at all. It is not recommended to define NDEBUG if using assert() to de? tect error conditions since the software may behave non-determinisi? cally.

RETURN VALUE

No value is returned.

ATTRIBUTES

For an explanation of the terms used in this section, see at? tributes(7).

??????????????????????????????????????

?Interface ? Attribute ? Value ?

??????????????????????????????????????

?assert() ? Thread safety ? MT-Safe ?

??????????????????????????????????????

CONFORMING TO

POSIX.1-2001, POSIX.1-2008, C89, C99. In C89, expression is required to be of type int and undefined behavior results if it is not, but in C99 it may have any scalar type.

BUGS

assert() is implemented as a macro; if the expression tested has side-effects, program behavior will be different depending on whether NDEBUG is defined. This may create Heisenbugs which go away when debugging is turned on.

SEE ALSO

abort(3), assert_perror(3), exit(3)

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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