

Op:assert.h

assert.h - verify program assertion

```
#include <assert.h>
```

Contents [1 DESCRIPTION](#) [2 APPLICATION USAGE](#) [3 RATIONALE](#) [4 FUTURE DIRECTIONS](#) [5 RELATED](#)
[6 COPYRIGHT](#) [7 CATEGORY](#)

DESCRIPTION

The `<assert.h>` header shall define the `assert()` macro. It refers to the macro `NDEBUG` which is not defined in the header. If `NDEBUG` is defined as a macro name before the inclusion of this header, the `assert()` macro shall be defined simply as:

```
#define assert(ignore)((void) 0)
```

Otherwise, the macro behaves as described in `assert()`.

The `assert()` macro shall be redefined according to the current state of `NDEBUG` each time `<assert.h>` is included.

The `assert()` macro shall be implemented as a macro, not as a function. If the macro definition is suppressed in order to access an actual function, the behavior is undefined.

The following sections are informative.

APPLICATION USAGE

None.

RATIONALE

None.

FUTURE DIRECTIONS

None.

RELATED

The System Interfaces volume of IEEE Std 1003.1-2001, **assert()**

COPYRIGHT

Portions of this text are reprinted and reproduced in electronic form from IEEE Std 1003.1, 2003 Edition, Standard for Information Technology -- Portable Operating System Interface (POSIX), The Open Group Base Specifications Issue 6, Copyright (C) 2001-2003 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> .

IEEE/The Open Group 2003 <assert.h>(P)