Error handling

In libuv errors are negative numbered constants. As a rule of thumb, whenever there is a status parameter, or an API functions returns an integer, a negative number will imply an error.

When a function which takes a callback returns an error, the callback will never be called.

> **Note**
>
> Implementation detail: on Unix error codes are the negated *errno* (or *-errno*), while on Windows they are defined by libuv to arbitrary negative numbers.

Error constants

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 22`)

Unknown directive type "c:macro".

```
.. c:macro:: UV_E2BIG

    argument list too long
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 26`)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EACCES

    permission denied
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 30`)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EADDRINUSE

    address already in use
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 34`)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EADDRNOTAVAIL

    address not available
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 38`)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAFNOSUPPORT

    address family not supported
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 42`)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAGAIN
```

```
    resource temporarily unavailable
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst**, line 46)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_ADDRFAMILY

    address family not supported
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst**, line 50)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_AGAIN

    temporary failure
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst**, line 54)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_BADFLAGS

    bad ai_flags value
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst**, line 58)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_BADHINTS

    invalid value for hints
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst**, line 62)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_CANCELED

    request canceled
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst**, line 66)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_FAIL

    permanent failure
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst**, line 70)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_FAMILY

    ai_family not supported
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 74**)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_MEMORY

   out of memory
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 78**)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_NODATA

   no address
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 82**)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_NONAME

   unknown node or service
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 86**)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_OVERFLOW

   argument buffer overflow
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 90**)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_PROTOCOL

   resolved protocol is unknown
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 94**)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_SERVICE

   service not available for socket type
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 98**)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EAI_SOCKTYPE

   socket type not supported
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 102**)

Unknown directive type "c:macro".

```
.. c:macro:: UV_EALREADY

    connection already in progress
```

```
.. c:macro:: UV_EBADF

    bad file descriptor
```

```
.. c:macro:: UV_EBUSY

    resource busy or locked
```

```
.. c:macro:: UV_ECANCELED

    operation canceled
```

```
.. c:macro:: UV_ECHARSET

    invalid Unicode character
```

```
.. c:macro:: UV_ECONNABORTED

    software caused connection abort
```

```
.. c:macro:: UV_ECONNREFUSED

    connection refused
```

```
.. c:macro:: UV_ECONNRESET

    connection reset by peer
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 134)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EDESTADDRREQ

    destination address required
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 138)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EEXIST

    file already exists
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 142)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EFAULT

    bad address in system call argument
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 146)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EFBIG

    file too large
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 150)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EHOSTUNREACH

    host is unreachable
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 154)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EINTR

    interrupted system call
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 158)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EINVAL

    invalid argument
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 162)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EIO

    i/o error
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 194)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENETUNREACH

    network is unreachable
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 198)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENFILE

    file table overflow
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 202)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENOBUFS

    no buffer space available
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 206)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENODEV

    no such device
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 210)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENOENT

    no such file or directory
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 214)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENOMEM

    not enough memory
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 218)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENONET

    machine is not on the network
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, **line 222)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENOPROTOOPT

   protocol not available
```

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENOSPC

   no space left on device
```

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENOSYS

   function not implemented
```

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENOTCONN

   socket is not connected
```

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENOTDIR

   not a directory
```

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENOTEMPTY

   directory not empty
```

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENOTSOCK

   socket operation on non-socket
```

Unknown directive type "c:macro".

```
.. c:macro:: UV_ENOTSUP
```

```
operation not supported on socket
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 254**)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EOVERFLOW

    value too large for defined data type
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 258**)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EPERM

    operation not permitted
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 262**)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EPIPE

    broken pipe
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 266**)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EPROTO

    protocol error
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 270**)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EPROTONOSUPPORT

    protocol not supported
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 274**)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EPROTOTYPE

    protocol wrong type for socket
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst, line 278**)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ERANGE

    result too large
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 282)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EROFS

   read-only file system
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 286)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ESHUTDOWN

   cannot send after transport endpoint shutdown
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 290)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ESPIPE

   invalid seek
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 294)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ESRCH

   no such process
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 298)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ETIMEDOUT

   connection timed out
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 302)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_ETXTBSY

   text file is busy
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 306)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_EXDEV

   cross-device link not permitted
```

System Message: ERROR/3 (`D:\onboarding-resources\sample-onboarding-resources\node-master\deps\uv\docs\src\[node-master][deps][uv][docs][src]errors.rst`**, line 310)**

Unknown directive type "c:macro".

```
.. c:macro:: UV_UNKNOWN

    unknown error
```

```
.. c:macro:: UV_EOF

    end of file
```

```
.. c:macro:: UV_ENXIO

    no such device or address
```

```
.. c:macro:: UV_EMLINK

    too many links
```

```
.. c:macro:: UV_ENOTTY

    inappropriate ioctl for device
```

```
.. c:macro:: UV_EFTYPE

    inappropriate file type or format
```

```
.. c:macro:: UV_EILSEQ

    illegal byte sequence
```

```
.. c:macro:: UV_ESOCKTNOSUPPORT

    socket type not supported
```

API

```
.. c:macro:: UV_ERRNO_MAP(iter_macro)

    Macro that expands to a series of invocations of `iter_macro` for
    each of the error constants above. `iter_macro` is invoked with two
    arguments: the name of the error constant without the `UV_` prefix,
    and the error message string literal.
```

```
.. c:function:: const char* uv_strerror(int err)

    Returns the error message for the given error code.  Leaks a few bytes
    of memory when you call it with an unknown error code.
```

```
.. c:function:: char* uv_strerror_r(int err, char* buf, size_t buflen)

    Returns the error message for the given error code. The zero-terminated
    message is stored in the user-supplied buffer `buf` of at most `buflen` bytes.

    .. versionadded:: 1.22.0
```

```
.. c:function:: const char* uv_err_name(int err)

    Returns the error name for the given error code.  Leaks a few bytes
    of memory when you call it with an unknown error code.
```

```
.. c:function:: char* uv_err_name_r(int err, char* buf, size_t buflen)

    Returns the error name for the given error code. The zero-terminated
    name is stored in the user-supplied buffer `buf` of at most `buflen` bytes.

    .. versionadded:: 1.22.0
```

```
.. c:function:: int uv_translate_sys_error(int sys_errno)

    Returns the libuv error code equivalent to the given platform dependent error
```

code: POSIX error codes on Unix (the ones stored in `errno`), and Win32 error
codes on Windows (those returned by `GetLastError()` or `WSAGetLastError()`).

If `sys_errno` is already a libuv error, it is simply returned.

.. versionchanged:: 1.10.0 function declared public.