#### **Errors**

Applications running in Node.js will generally experience four categories of errors:

- Standard JavaScript errors such as <<u>EvalError></u>, <<u>SyntaxError></u>, <<u>RangeError></u>, <<u>ReferenceError></u>, <<u>TypeError></u>,
- System errors triggered by underlying operating system constraints such as attempting to open a file that does not exist or attempting to send data over a closed socket.
- User-specified errors triggered by application code.
- AssertionError s are a special class of error that can be triggered when Node.js detects an exceptional logic violation that should never occur. These are raised typically by the node:assert module.

All JavaScript and system errors raised by Node.js inherit from, or are instances of, the standard JavaScript <<u>Error></u> class and are guaranteed to provide *at least* the properties available on that class.

## Error propagation and interception

Node.js supports several mechanisms for propagating and handling errors that occur while an application is running. How these errors are reported and handled depends entirely on the type of Error and the style of the API that is called.

All JavaScript errors are handled as exceptions that *immediately* generate and throw an error using the standard JavaScript throw mechanism. These are handled using the <u>try...catch</u> construct provided by the JavaScript language.

```
// Throws with a ReferenceError because z is not defined.
try {
  const m = 1;
  const n = m + z;
} catch (err) {
  // Handle the error here.
} copy
```

Any use of the JavaScript throw mechanism will raise an exception that *must* be handled or the Node.js process will exit immediately.

With few exceptions, *Synchronous* APIs (any blocking method that does not return a <a href="mailto:</a> nor accept a callback function, such as <a href="mailto:sync">fs.readFileSync</a>), will use throw to report errors.

Errors that occur within Asynchronous APIs may be reported in multiple ways:

• Some asynchronous methods returns a <<u>Promise></u>, you should always take into account that it might be rejected. See <a href="--unhandled-rejections">--unhandled-rejections</a> flag for how the process will react to an unhandled promise rejection.

```
const fs = require('fs/promises');

(async () => {
  let data;
  try {
    data = await fs.readFile('a file that does not exist');
  } catch (err) {
    console.error('There was an error reading the file!', err);
    return;
  }
  // Otherwise handle the data
})(); copy
```

Most asynchronous methods that accept a callback function will accept an Error object passed as the first argument to that function. If that first argument is not null and is an instance of Error, then an error occurred that should be handled.

```
const fs = require('node:fs');
fs.readFile('a file that does not exist', (err, data) => {
  if (err) {
    console.error('There was an error reading the file!', err);
    return;
  }
  // Otherwise handle the data
}); copy
```

• When an asynchronous method is called on an object that is an <a href="EventEmitter">EventEmitter</a>, errors can be routed to that object's 'error' event.

```
const net = require('node:net');
const connection = net.connect('localhost');

// Adding an 'error' event handler to a stream:
connection.on('error', (err) => {
    // If the connection is reset by the server, or if it can't
    // connect at all, or on any sort of error encountered by
    // the connection, the error will be sent here.
    console.error(err);
});

connection.pipe(process.stdout); copy
```

• A handful of typically asynchronous methods in the Node.js API may still use the throw mechanism to raise exceptions that must be handled using try...catch. There is no comprehensive list of such methods; please refer to the documentation of each method to determine the appropriate error handling mechanism required.

The use of the 'error' event mechanism is most common for <u>stream-based</u> and <u>event emitter-based</u> APIs, which themselves represent a series of asynchronous operations over time (as opposed to a single operation that may pass or fail).

For *all* EventEmitter objects, if an 'error' event handler is not provided, the error will be thrown, causing the Node.js process to report an uncaught exception and crash unless either: a handler has been registered for the 'uncaughtException' event, or the deprecated node:domain module is used.

```
const EventEmitter = require('node:events');
const ee = new EventEmitter();

setImmediate(() => {
    // This will crash the process because no 'error' event
    // handler has been added.
    ee.emit('error', new Error('This will crash'));
}); copy
```

Errors generated in this way *cannot* be intercepted using try...catch as they are thrown *after* the calling code has already exited.

Developers must refer to the documentation for each method to determine exactly how errors raised by those methods are propagated.

```
Class: Error
```

A generic JavaScript < Error > object that does not denote any specific circumstance of why the error occurred. Error objects capture a "stack trace" detailing the point in the code at which the Error was instantiated, and may provide a text description of the error.

All errors generated by Node.js, including all system and JavaScript errors, will either be instances of, or inherit from, the Error class.

```
new Error(message[, options])
```

- message <string>
- options <Object>
  - o cause <any> The error that caused the newly created error.

Creates a new Error object and sets the error.message property to the provided text message. If an object is passed as message, the text message is generated by calling String(message). If the cause option is provided, it is assigned to the error.cause property. The error.stack property will represent the point in the code at which new Error() was called. Stack traces are dependent on V8's stack trace API. Stack traces extend only to either (a) the beginning of synchronous code execution, or (b) the number of frames given by the property Error.stackTraceLimit, whichever is smaller.

Error.captureStackTrace(targetObject[, constructorOpt])

- targetObject < Object>
- constructorOpt <Function>

Creates a .stack property on targetObject, which when accessed returns a string representing the location in the code at which Error.captureStackTrace() was called.

```
const myObject = {};
Error.captureStackTrace(myObject);
myObject.stack; // Similar to `new Error().stack` copy
```

The first line of the trace will be prefixed with \${myObject.name}: \${myObject.message}.

The optional constructorOpt argument accepts a function. If given, all frames above constructorOpt, including constructorOpt, will be omitted from the generated stack trace.

The constructorOpt argument is useful for hiding implementation details of error generation from the user. For instance:

```
function a() {
  b();
}
function b() {
  c();
}
function c() {
  // Create an error without stack trace to avoid calculating the stack trace twice.
  const { stackTraceLimit } = Error;
  Error.stackTraceLimit = 0;
  const error = new Error();
  Error.stackTraceLimit = stackTraceLimit;
  // Capture the stack trace above function b
  Error.captureStackTrace(error, b); // Neither function c, nor b is included in the stack trace
  throw error;
}
a(); copy
```

#### Error.stackTraceLimit

<number>

The Error.stackTraceLimit property specifies the number of stack frames collected by a stack trace (whether generated by new Error().stack Or Error.captureStackTrace(obj)).

The default value is 10 but may be set to any valid JavaScript number. Changes will affect any stack trace captured *after* the value has been changed.

If set to a non-number value, or set to a negative number, stack traces will not capture any frames.

```
error.cause
```

• <any> Added in: v16.9.0

If present, the error cause property is the underlying cause of the Error. It is used when catching an error and throwing a new one with a different message or code in order to still have access to the original error.

The error.cause property is typically set by calling new Error(message, { cause }) . It is not set by the constructor if the cause option is not provided.

This property allows errors to be chained. When serializing Error objects, <a href="mailto:util.inspect()">util.inspect()</a> recursively serializes error.cause if it is set.

```
const cause = new Error('The remote HTTP server responded with a 500 status');
const symptom = new Error('The message failed to send', { cause });
console.log(symptom);
// Prints:
    Error: The message failed to send
         at REPL2:1:17
//
//
         at Script.runInThisContext (node:vm:130:12)
         ... 7 lines matching cause stack trace ...
//
         at [_line] [as _line] (node:internal/readline/interface:886:18) {
//
       [cause]: Error: The remote HTTP server responded with a 500 status
//
//
           at REPL1:1:15
//
           at Script.runInThisContext (node:vm:130:12)
           at REPLServer.defaultEval (node:repl:574:29)
//
//
           at bound (node:domain:426:15)
           at REPLServer.runBound [as eval] (node:domain:437:12)
//
//
           at REPLServer.onLine (node:repl:902:10)
           at REPLServer.emit (node:events:549:35)
//
//
           at REPLServer.emit (node:domain:482:12)
           at [_onLine] [as _onLine] (node:internal/readline/interface:425:12)
//
           at [_line] [as _line] (node:internal/readline/interface:886:18) copy
//
```

# error.code

### <string>

The error.code property is a string label that identifies the kind of error. error.code is the most stable way to identify an error. It will only change between major versions of Node.js. In contrast, error.message strings may change between any versions of Node.js. See <u>Node.js error codes</u> for details about specific codes.

error.message

<string>

The error.message property is the string description of the error as set by calling new Error(message). The message passed to the constructor will also appear in the first line of the stack trace of the Error, however changing this property after the Error object is created *may not* change the first line of the stack trace (for example, when error.stack is read before this property is changed).

```
const err = new Error('The message');
console.error(err.message);
// Prints: The message copy
```

```
error.stack
```

<string>

The error.stack property is a string describing the point in the code at which the Error was instantiated.

```
Error: Things keep happening!
   at /home/gbusey/file.js:525:2
   at Frobnicator.refrobulate (/home/gbusey/business-logic.js:424:21)
   at Actor.<anonymous> (/home/gbusey/actors.js:400:8)
   at increaseSynergy (/home/gbusey/actors.js:701:6) copy
```

The first line is formatted as <error class name>: <error message> , and is followed by a series of stack frames (each line beginning with "at "). Each frame describes a call site within the code that lead to the error being generated. V8 attempts to display a name for each function (by variable name, function name, or object method name), but occasionally it will not be able to find a suitable name. If V8 cannot determine a name for the function, only location information will be displayed for that frame. Otherwise, the determined function name will be displayed with location information appended in parentheses.

Frames are only generated for JavaScript functions. If, for example, execution synchronously passes through a C++ addon function called cheetahify which itself calls a JavaScript function, the frame representing the cheetahify call will not be present in the stack traces:

```
const cheetahify = require('./native-binding.node');

function makeFaster() {
    // `cheetahify()` *synchronously* calls speedy.
    cheetahify(function speedy() {
        throw new Error('oh no!');
    });
}

makeFaster();
// will throw:
// /home/gbusey/file.js:6
```

```
throw new Error('oh no!');
//
//
//
     Error: oh no!
//
         at speedy (/home/gbusey/file.js:6:11)
//
         at makeFaster (/home/gbusey/file.js:5:3)
         at Object.<anonymous> (/home/gbusey/file.js:10:1)
//
//
         at Module._compile (module.js:456:26)
         at Object.Module._extensions..js (module.js:474:10)
//
//
         at Module.load (module.js:356:32)
         at Function.Module._load (module.js:312:12)
//
         at Function.Module.runMain (module.js:497:10)
//
         at startup (node.js:119:16)
//
//
         at node.js:906:3 copy
```

The location information will be one of:

- native, if the frame represents a call internal to V8 (as in [].forEach).
- plain-filename.js:line:column , if the frame represents a call internal to Node.js.
- /absolute/path/to/file.js:line:column , if the frame represents a call in a user program (using CommonJS module system), or its dependencies.
- <transport-protocol>:///url/to/module/file.mjs:line:column , if the frame represents a call in a user program (using ES module system), or its dependencies.

The string representing the stack trace is lazily generated when the error, stack property is accessed.

The number of frames captured by the stack trace is bounded by the smaller of Error.stackTraceLimit or the number of available frames on the current event loop tick.

Class: AssertionError

Extends: <errors.Error>

Indicates the failure of an assertion. For details, see <a href="Class: assert.AssertionError">Class: assert.AssertionError</a>.

Class: RangeError

• Extends: <errors.Error>

Indicates that a provided argument was not within the set or range of acceptable values for a function; whether that is a numeric range, or outside the set of options for a given function parameter.

```
require('node:net').connect(-1);
// Throws "RangeError: "port" option should be >= 0 and < 65536: -1" copy</pre>
```

Node.js will generate and throw RangeError instances immediately as a form of argument validation.

Class: ReferenceError

• Extends: <errors.Error>

Indicates that an attempt is being made to access a variable that is not defined. Such errors commonly indicate typos in code, or an otherwise broken program.

While client code may generate and propagate these errors, in practice, only V8 will do so.

```
doesNotExist;
// Throws ReferenceError, doesNotExist is not a variable in this program. copy
```

Unless an application is dynamically generating and running code, ReferenceError instances indicate a bug in the code or its dependencies.

Class: SyntaxError

• Extends: <errors.Error>

Indicates that a program is not valid JavaScript. These errors may only be generated and propagated as a result of code evaluation. Code evaluation may happen as a result of eval, Function, require, or  $\underline{\text{vm}}$ . These errors are almost always indicative of a broken program.

```
try {
   require('node:vm').runInThisContext('binary ! isNotOk');
} catch (err) {
   // 'err' will be a SyntaxError.
} copy
```

SyntaxError instances are unrecoverable in the context that created them – they may only be caught by other contexts.

Class: SystemError

• Extends: <errors.Error>

Node.js generates system errors when exceptions occur within its runtime environment. These usually occur when an application violates an operating system constraint. For example, a system error will occur if an application attempts to read a file that does not exist.

- address <string> If present, the address to which a network connection failed
- code <string> The string error code
- dest <string> If present, the file path destination when reporting a file system error
- errno <number> The system-provided error number
- info <Object> If present, extra details about the error condition

- message <string> A system-provided human-readable description of the error
- path <string> If present, the file path when reporting a file system error
- port <number> If present, the network connection port that is not available
- syscall <string> The name of the system call that triggered the error

error.address

<string>

If present, error.address is a string describing the address to which a network connection failed.

error.code

<string>

The error.code property is a string representing the error code.

error.dest

<string>

If present, error.dest is the file path destination when reporting a file system error.

error.errno

<number>

The error.errno property is a negative number which corresponds to the error code defined in <u>libuv Error handling</u>.

On Windows the error number provided by the system will be normalized by libuv.

To get the string representation of the error code, use <a href="mailto:util.getSystemErrorName(error.errno">util.getSystemErrorName(error.errno</a>).

error.info

<Object>

If present, error.info is an object with details about the error condition.

error.message

<string>

error.message is a system-provided human-readable description of the error.

error.path

<string>

If present, error.path is a string containing a relevant invalid pathname.

error.port

<number>

If present, error.port is the network connection port that is not available.

error.syscall

<string>

The error.syscall property is a string describing the syscall that failed.

#### Common system errors

This is a list of system errors commonly-encountered when writing a Node.js program. For a comprehensive list, see the erro(3) man page.

- EACCES (Permission denied): An attempt was made to access a file in a way forbidden by its file access permissions.
- EADDRINUSE (Address already in use): An attempt to bind a server (net, http, or https) to a local address failed due to another server on the local system already occupying that address.
- ECONNREFUSED (Connection refused): No connection could be made because the target machine actively refused it. This usually results from trying to connect to a service that is inactive on the foreign host.
- ECONNRESET (Connection reset by peer): A connection was forcibly closed by a peer. This normally results from a loss of the connection on the remote socket due to a timeout or reboot. Commonly encountered via the <a href="http">http</a> and <a href="http">net</a> modules.
- EEXIST (File exists): An existing file was the target of an operation that required that the target not exist.
- EISDIR (Is a directory): An operation expected a file, but the given pathname was a directory.
- EMFILE (Too many open files in system): Maximum number of <u>file descriptors</u> allowable on the system has been reached, and requests for another descriptor cannot be fulfilled until at least one has been closed. This is encountered when opening many files at once in parallel, especially on systems (in particular, macOS) where there is a low file descriptor limit for processes. To remedy a low limit, run <u>ulimit -n 2048</u> in the same shell that will run the Node.js process.
- ENDENT (No such file or directory): Commonly raised by <u>fs</u> operations to indicate that a component of the specified pathname does not exist. No entity (file or directory) could be found by the given path.

- ENOTDIR (Not a directory): A component of the given pathname existed, but was not a directory as expected. Commonly raised by <u>fs.readdir</u>.
- ENOTEMPTY (Directory not empty): A directory with entries was the target of an operation that requires an empty directory, usually <a href="fs.unlink">fs.unlink</a>.
- ENOTFOUND (DNS lookup failed): Indicates a DNS failure of either EAI\_NODATA or EAI\_NONAME. This is not a standard POSIX error.
- EPERM (Operation not permitted): An attempt was made to perform an operation that requires elevated privileges.
- EPIPE (Broken pipe): A write on a pipe, socket, or FIFO for which there is no process to read the data. Commonly encountered at the <u>net</u> and <u>http</u> layers, indicative that the remote side of the stream being written to has been closed.
- ETIMEDOUT (Operation timed out): A connect or send request failed because the connected party did not properly respond after a period of time. Usually encountered by <a href="http://http.com/http">http</a> or <a href="net.">net</a>. Often a sign that a socket.end() was not properly called.

## Class: TypeError

• Extends <errors.Error>

Indicates that a provided argument is not an allowable type. For example, passing a function to a parameter which expects a string would be a TypeError.

```
require('node:url').parse(() => { });
// Throws TypeError, since it expected a string. copy
```

Node.js will generate and throw TypeError instances immediately as a form of argument validation.

#### Exceptions vs. errors

A JavaScript exception is a value that is thrown as a result of an invalid operation or as the target of a throw statement. While it is not required that these values are instances of Error or classes which inherit from Error, all exceptions thrown by Node.js or the JavaScript runtime *will* be instances of Error.

Some exceptions are *unrecoverable* at the JavaScript layer. Such exceptions will *always* cause the Node.js process to crash. Examples include <code>assert()</code> checks or <code>abort()</code> calls in the C++ layer.

#### OpenSSL errors

Errors originating in crypto or tls are of class Error, and in addition to the standard .code and .message properties, may have some additional OpenSSL-specific properties.

## $\verb|error.opensslErrorStack||$

An array of errors that can give context to where in the OpenSSL library an error originates from.

error.function

The OpenSSL function the error originates in.

error.library

The OpenSSL library the error originates in.

error.reason

A human-readable string describing the reason for the error.

Node.js error codes

ABORT\_ERR

Used when an operation has been aborted (typically using an AbortController ).

Added in: v15.0.0

APIs not using AbortSignal s typically do not raise an error with this code.

This code does not use the regular ERR\_\* convention Node.js errors use in order to be compatible with the web platform's AbortError.

ERR\_ACCESS\_DENIED

A special type of error that is triggered whenever Node.js tries to get access to a resource restricted by the <u>Permission</u> Model.

ERR\_AMBIGUOUS\_ARGUMENT

A function argument is being used in a way that suggests that the function signature may be misunderstood. This is thrown by the node:assert module when the message parameter in assert.throws(block, message) matches the error message thrown by block because that usage suggests that the user believes message is the expected message rather than the message the AssertionError will display if block does not throw.

ERR\_ARG\_NOT\_ITERABLE

An iterable argument (i.e. a value that works with for...of loops) was required, but not provided to a Node.js API.

**ERR ASSERTION** 

A special type of error that can be triggered whenever Node.js detects an exceptional logic violation that should never occur. These are raised typically by the <code>node:assert module</code>.

ERR\_ASYNC\_CALLBACK

An attempt was made to register something that is not a function as an AsyncHooks callback.

ERR\_ASYNC\_TYPE

The type of an asynchronous resource was invalid. Users are also able to define their own types if using the public embedder API.

ERR\_BROTLI\_COMPRESSION\_FAILED

Data passed to a Brotli stream was not successfully compressed.

ERR\_BROTLI\_INVALID\_PARAM

An invalid parameter key was passed during construction of a Brotli stream.

ERR\_BUFFER\_CONTEXT\_NOT\_AVAILABLE

An attempt was made to create a Node.js Buffer instance from addon or embedder code, while in a JS engine Context that is not associated with a Node.js instance. The data passed to the Buffer method will have been released by the time the method returns.

When encountering this error, a possible alternative to creating a Buffer instance is to create a normal Uint8Array, which only differs in the prototype of the resulting object. Uint8Array s are generally accepted in all Node.js core APIs where Buffer s are; they are available in all Contexts.

ERR BUFFER OUT OF BOUNDS

An operation outside the bounds of a Buffer was attempted.

ERR BUFFER TOO LARGE

An attempt has been made to create a Buffer larger than the maximum allowed size.

ERR\_CANNOT\_WATCH\_SIGINT

Node.js was unable to watch for the SIGINT signal.

ERR\_CHILD\_CLOSED\_BEFORE\_REPLY

A child process was closed before the parent received a reply.

ERR\_CHILD\_PROCESS\_IPC\_REQUIRED

Used when a child process is being forked without specifying an IPC channel.

ERR\_CHILD\_PROCESS\_STDIO\_MAXBUFFER

Used when the main process is trying to read data from the child process's STDERR/STDOUT, and the data's length is longer than the maxBuffer option.

ERR\_CLOSED\_MESSAGE\_PORT

There was an attempt to use a MessagePort instance in a closed state, usually after .close() has been ▶ History called.

ERR\_CONSOLE\_WRITABLE\_STREAM

Console was instantiated without stdout stream, or Console has a non-writable stdout or stderr stream.

ERR\_CONSTRUCT\_CALL\_INVALID

A class constructor was called that is not callable.

Added in: v12.5.0

ERR\_CONSTRUCT\_CALL\_REQUIRED

A constructor for a class was called without new.

ERR\_CONTEXT\_NOT\_INITIALIZED

The vm context passed into the API is not yet initialized. This could happen when an error occurs (and is caught) during the creation of the context, for example, when the allocation fails or the maximum call stack size is reached when the context is created.

ERR\_CRYPTO\_CUSTOM\_ENGINE\_NOT\_SUPPORTED

An OpenSSL engine was requested (for example, through the clientCertEngine or privateKeyEngine TLS options) that is not supported by the version of OpenSSL being used, likely due to the compile-time flag OPENSSL\_NO\_ENGINE .

ERR CRYPTO ECDH INVALID FORMAT

An invalid value for the format argument was passed to the crypto.ECDH() class getPublicKey() method.

ERR\_CRYPTO\_ECDH\_INVALID\_PUBLIC\_KEY

An invalid value for the key argument has been passed to the crypto.ECDH() class computeSecret() method. It means that the public key lies outside of the elliptic curve.

ERR\_CRYPTO\_ENGINE\_UNKNOWN

An invalid crypto engine identifier was passed to require('node:crypto').setEngine().

ERR\_CRYPTO\_FIPS\_FORCED

The <u>--force-fips</u> command-line argument was used but there was an attempt to enable or disable FIPS mode in the node:crypto module.

ERR\_CRYPTO\_FIPS\_UNAVAILABLE

An attempt was made to enable or disable FIPS mode, but FIPS mode was not available.

ERR\_CRYPTO\_HASH\_FINALIZED

hash.digest() was called multiple times. The hash.digest() method must be called no more than one time per instance
of a Hash object.

ERR\_CRYPTO\_HASH\_UPDATE\_FAILED

<u>hash.update()</u> failed for any reason. This should rarely, if ever, happen.

ERR CRYPTO INCOMPATIBLE KEY

The given crypto keys are incompatible with the attempted operation.

ERR CRYPTO INCOMPATIBLE KEY OPTIONS

The selected public or private key encoding is incompatible with other options.

ERR\_CRYPTO\_INITIALIZATION\_FAILED

Initialization of the crypto subsystem failed.

ERR\_CRYPTO\_INVALID\_AUTH\_TAG

An invalid authentication tag was provided.

Added in: v15.0.0

Added in: v15.0.0

ERR\_CRYPTO\_INVALID\_COUNTER An invalid counter was provided for a counter-mode cipher. Added in: v15.0.0 ERR\_CRYPTO\_INVALID\_CURVE An invalid elliptic-curve was provided. Added in: v15.0.0 ERR\_CRYPTO\_INVALID\_DIGEST An invalid crypto digest algorithm was specified. ERR\_CRYPTO\_INVALID\_IV An invalid initialization vector was provided. Added in: v15.0.0 ERR\_CRYPTO\_INVALID\_JWK An invalid JSON Web Key was provided. Added in: v15.0.0 ERR\_CRYPTO\_INVALID\_KEY\_OBJECT\_TYPE The given crypto key object's type is invalid for the attempted operation. ERR\_CRYPTO\_INVALID\_KEYLEN An invalid key length was provided. Added in: v15.0.0 ERR CRYPTO INVALID KEYPAIR An invalid key pair was provided. Added in: v15.0.0 ERR\_CRYPTO\_INVALID\_KEYTYPE An invalid key type was provided. Added in: v15.0.0 ERR\_CRYPTO\_INVALID\_MESSAGELEN An invalid message length was provided. Added in: v15.0.0 ERR\_CRYPTO\_INVALID\_SCRYPT\_PARAMS Invalid scrypt algorithm parameters were provided. Added in: v15.0.0

ERR\_CRYPTO\_INVALID\_STATE

A crypto method was used on an object that was in an invalid state. For instance, calling cipher.getAuthTag() before calling cipher.final().

ERR\_CRYPTO\_INVALID\_TAG\_LENGTH

An invalid authentication tag length was provided.

Added in: v15.0.0

ERR\_CRYPTO\_JOB\_INIT\_FAILED

Initialization of an asynchronous crypto operation failed.

Added in: v15.0.0

ERR\_CRYPTO\_JWK\_UNSUPPORTED\_CURVE

Key's Elliptic Curve is not registered for use in the JSON Web Key Elliptic Curve Registry.

ERR\_CRYPTO\_JWK\_UNSUPPORTED\_KEY\_TYPE

Key's Asymmetric Key Type is not registered for use in the JSON Web Key Types Registry.

ERR\_CRYPTO\_OPERATION\_FAILED

A crypto operation failed for an otherwise unspecified reason.

Added in: v15.0.0

ERR CRYPTO PBKDF2 ERROR

The PBKDF2 algorithm failed for unspecified reasons. OpenSSL does not provide more details and therefore neither does Node.js.

ERR\_CRYPTO\_SCRYPT\_INVALID\_PARAMETER

One or more <a href="mailto:crypto.scryptSync(">crypto.scryptSync()</a> parameters are outside their legal range.

ERR\_CRYPTO\_SCRYPT\_NOT\_SUPPORTED

Node.js was compiled without scrypt support. Not possible with the official release binaries but can happen with custom builds, including distro builds.

ERR\_CRYPTO\_SIGN\_KEY\_REQUIRED

A signing key was not provided to the <a href="sign.sign()">sign.sign()</a> method.

ERR\_CRYPTO\_TIMING\_SAFE\_EQUAL\_LENGTH

crypto.timingSafeEqual() was called with Buffer , TypedArray , or DataView arguments of different lengths.

ERR\_CRYPTO\_UNKNOWN\_CIPHER

An unknown cipher was specified.

ERR\_CRYPTO\_UNKNOWN\_DH\_GROUP

An unknown Diffie-Hellman group name was given. See <a href="crypto.getDiffieHellman()">crypto.getDiffieHellman()</a> for a list of valid group names.

ERR\_CRYPTO\_UNSUPPORTED\_OPERATION

An attempt to invoke an unsupported crypto operation was made.

Added in: v15.0.0, v14.18.0

ERR\_DEBUGGER\_ERROR

An error occurred with the debugger.

Added in: v16.4.0, v14.17.4

ERR\_DEBUGGER\_STARTUP\_ERROR

The <u>debugger</u> timed out waiting for the required host/port to be free.

Added in: v16.4.0, v14.17.4

ERR\_DLOPEN\_DISABLED

Loading native addons has been disabled using <a>--no-addons</a>.

Added in: v16.10.0, v14.19.0

ERR DLOPEN FAILED

A call to process.dlopen() failed.

Added in: v15.0.0

ERR\_DIR\_CLOSED

The fs.Dir was previously closed.

ERR\_DIR\_CONCURRENT\_OPERATION

A synchronous read or close call was attempted on an <u>fs.Dir</u> which has ongoing asynchronous Added in: v14.3.0 operations.

ERR\_DNS\_SET\_SERVERS\_FAILED

c-ares failed to set the DNS server.

ERR\_DOMAIN\_CALLBACK\_NOT\_AVAILABLE

The node:domain module was not usable since it could not establish the required error handling hooks, because process.setUncaughtExceptionCaptureCallback() had been called at an earlier point in time.

ERR\_DOMAIN\_CANNOT\_SET\_UNCAUGHT\_EXCEPTION\_CAPTURE

<u>process.setUncaughtExceptionCaptureCallback()</u> could not be called because the node:domain module has been loaded at an earlier point in time.

The stack trace is extended to include the point in time at which the node:domain module had been loaded.

ERR\_DUPLICATE\_STARTUP\_SNAPSHOT\_MAIN\_FUNCTION

v8.startupSnapshot.setDeserializeMainFunction() could not be called because it had already been called before.

ERR\_ENCODING\_INVALID\_ENCODED\_DATA

Data provided to TextDecoder() API was invalid according to the encoding provided.

ERR\_ENCODING\_NOT\_SUPPORTED

Encoding provided to TextDecoder() API was not one of the WHATWG Supported Encodings.

ERR\_EVAL\_ESM\_CANNOT\_PRINT

--print cannot be used with ESM input.

ERR\_EVENT\_RECURSION

Thrown when an attempt is made to recursively dispatch an event on EventTarget .

ERR\_EXECUTION\_ENVIRONMENT\_NOT\_AVAILABLE

The JS execution context is not associated with a Node.js environment. This may occur when Node.js is used as an embedded library and some hooks for the JS engine are not set up properly.

ERR\_FALSY\_VALUE\_REJECTION

A Promise that was callbackified via util.callbackify() was rejected with a falsy value.

ERR\_FEATURE\_UNAVAILABLE\_ON\_PLATFORM

Used when a feature that is not available to the current platform which is running Node.js is used.

Added in: v14.0.0

ERR\_FS\_CP\_DIR\_TO\_NON\_DIR

An attempt was made to copy a directory to a non-directory (file, symlink, etc.) using <u>fs.cp()</u>.

Added in: v16.7.0

ERR\_FS\_CP\_EEXIST

An attempt was made to copy over a file that already existed with <u>fs.cp()</u>, with the force and erro- Added in: v16.7.0 r0nExist set to true.

ERR\_FS\_CP\_EINVAL

When using <a href="fs.cp">fs.cp</a>(), src or dest pointed to an invalid path.

Added in: v16.7.0

ERR\_HTTP\_BODY\_NOT\_ALLOWED

An error is thrown when writing to an HTTP response which does not allow contents.

ERR\_HTTP\_CONTENT\_LENGTH\_MISMATCH

Response body size doesn't match with the specified content-length header value.

ERR\_FS\_CP\_FIFO\_PIPE

An attempt was made to copy a named pipe with fs.cp().

Added in: v16.7.0

ERR\_FS\_CP\_NON\_DIR\_TO\_DIR

An attempt was made to copy a non-directory (file, symlink, etc.) to a directory using fs.cp().

Added in: v16.7.0

ERR\_FS\_CP\_SOCKET

An attempt was made to copy to a socket with fs.cp().

Added in: v16.7.0

ERR\_FS\_CP\_SYMLINK\_TO\_SUBDIRECTORY

When using fs.cp(), a symlink in dest pointed to a subdirectory of src.

Added in: v16.7.0

ERR\_FS\_CP\_UNKNOWN

An attempt was made to copy to an unknown file type with fs.cp().

Added in: v16.7.0

ERR\_FS\_EISDIR

Path is a directory.

ERR\_FS\_FILE\_TOO\_LARGE

An attempt has been made to read a file whose size is larger than the maximum allowed size for a Buffer .

ERR\_FS\_INVALID\_SYMLINK\_TYPE

An invalid symlink type was passed to the <a href="mailto:fs.symlink()">fs.symlinkSync()</a> methods.

ERR\_HTTP\_HEADERS\_SENT

An attempt was made to add more headers after the headers had already been sent.

ERR\_HTTP\_INVALID\_HEADER\_VALUE

An invalid HTTP header value was specified.

ERR\_HTTP\_INVALID\_STATUS\_CODE

Status code was outside the regular status code range (100-999).

ERR\_HTTP\_REQUEST\_TIMEOUT

The client has not sent the entire request within the allowed time.

ERR\_HTTP\_SOCKET\_ASSIGNED

The given <u>ServerResponse</u> was already assigned a socket.

ERR\_HTTP\_SOCKET\_ENCODING

Changing the socket encoding is not allowed per RFC 7230 Section 3.

ERR\_HTTP\_TRAILER\_INVALID

The Trailer header was set even though the transfer encoding does not support that.

ERR\_HTTP2\_ALTSVC\_INVALID\_ORIGIN

HTTP/2 ALTSVC frames require a valid origin.

ERR\_HTTP2\_ALTSVC\_LENGTH

HTTP/2 ALTSVC frames are limited to a maximum of 16,382 payload bytes.

ERR\_HTTP2\_CONNECT\_AUTHORITY

For HTTP/2 requests using the CONNECT method, the :authority pseudo-header is required.

ERR\_HTTP2\_CONNECT\_PATH

For HTTP/2 requests using the CONNECT method, the :path pseudo-header is forbidden.

ERR\_HTTP2\_CONNECT\_SCHEME

For HTTP/2 requests using the CONNECT method, the :scheme pseudo-header is forbidden.

ERR\_HTTP2\_ERROR

A non-specific HTTP/2 error has occurred.

ERR\_HTTP2\_GOAWAY\_SESSION

New HTTP/2 Streams may not be opened after the Http2Session has received a GOAWAY frame from the connected peer.

ERR HTTP2 HEADER SINGLE VALUE

Multiple values were provided for an HTTP/2 header field that was required to have only a single value.

ERR\_HTTP2\_HEADERS\_AFTER\_RESPOND

An additional headers was specified after an HTTP/2 response was initiated.

ERR HTTP2 HEADERS SENT

An attempt was made to send multiple response headers.

ERR\_HTTP2\_INFO\_STATUS\_NOT\_ALLOWED

Informational HTTP status codes (1xx) may not be set as the response status code on HTTP/2 responses.

ERR\_HTTP2\_INVALID\_CONNECTION\_HEADERS

HTTP/1 connection specific headers are forbidden to be used in HTTP/2 requests and responses.

ERR\_HTTP2\_INVALID\_HEADER\_VALUE

An invalid HTTP/2 header value was specified.

ERR\_HTTP2\_INVALID\_INFO\_STATUS

An invalid HTTP informational status code has been specified. Informational status codes must be an integer between 100 and 199 (inclusive).

ERR\_HTTP2\_INVALID\_ORIGIN

HTTP/2 ORIGIN frames require a valid origin.

ERR\_HTTP2\_INVALID\_PACKED\_SETTINGS\_LENGTH

Input Buffer and Uint8Array instances passed to the http2.getUnpackedSettings() API must have a length that is a multiple of six.

ERR\_HTTP2\_INVALID\_PSEUDOHEADER

Only valid HTTP/2 pseudoheaders (:status, :path, :authority, :scheme, and :method) may be used.

ERR\_HTTP2\_INVALID\_SESSION

An action was performed on an Http2Session object that had already been destroyed.

ERR HTTP2 INVALID SETTING VALUE

An invalid value has been specified for an HTTP/2 setting.

ERR\_HTTP2\_INVALID\_STREAM

An operation was performed on a stream that had already been destroyed.

ERR HTTP2 MAX PENDING SETTINGS ACK

Whenever an HTTP/2 SETTINGS frame is sent to a connected peer, the peer is required to send an acknowledgment that it has received and applied the new SETTINGS. By default, a maximum number of unacknowledged SETTINGS frames may be sent at any given time. This error code is used when that limit has been reached.

ERR\_HTTP2\_NESTED\_PUSH

An attempt was made to initiate a new push stream from within a push stream. Nested push streams are not permitted.

ERR\_HTTP2\_NO\_MEM

Out of memory when using the http2session.setLocalWindowSize(windowSize) API.

ERR\_HTTP2\_NO\_SOCKET\_MANIPULATION

An attempt was made to directly manipulate (read, write, pause, resume, etc.) a socket attached to an Http2Session .

ERR\_HTTP2\_ORIGIN\_LENGTH

HTTP/2 ORIGIN frames are limited to a length of 16382 bytes.

ERR\_HTTP2\_OUT\_OF\_STREAMS

The number of streams created on a single HTTP/2 session reached the maximum limit.

ERR\_HTTP2\_PAYLOAD\_FORBIDDEN

A message payload was specified for an HTTP response code for which a payload is forbidden.

ERR\_HTTP2\_PING\_CANCEL

An HTTP/2 ping was canceled.

ERR HTTP2 PING LENGTH

HTTP/2 ping payloads must be exactly 8 bytes in length.

ERR\_HTTP2\_PSEUDOHEADER\_NOT\_ALLOWED

An HTTP/2 pseudo-header has been used inappropriately. Pseudo-headers are header key names that begin with the prefix.

ERR\_HTTP2\_PUSH\_DISABLED

An attempt was made to create a push stream, which had been disabled by the client.

ERR\_HTTP2\_SEND\_FILE

An attempt was made to use the Http2Stream.prototype.responseWithFile() API to send a directory.

ERR\_HTTP2\_SEND\_FILE\_NOSEEK

An attempt was made to use the Http2Stream.prototype.responseWithFile() API to send something other than a regular file, but offset or length options were provided.

ERR\_HTTP2\_SESSION\_ERROR

The Http2Session closed with a non-zero error code.

ERR\_HTTP2\_SETTINGS\_CANCEL

The Http2Session settings canceled.

ERR\_HTTP2\_SOCKET\_BOUND

An attempt was made to connect a Http2Session object to a net.Socket or tls.TLSSocket that had already been bound to another Http2Session object.

ERR\_HTTP2\_SOCKET\_UNBOUND

An attempt was made to use the socket property of an Http2Session that has already been closed.

ERR\_HTTP2\_STATUS\_101

Use of the 101 Informational status code is forbidden in HTTP/2.

ERR\_HTTP2\_STATUS\_INVALID

An invalid HTTP status code has been specified. Status codes must be an integer between 100 and 599 (inclusive).

ERR\_HTTP2\_STREAM\_CANCEL

An Http2Stream was destroyed before any data was transmitted to the connected peer.

ERR\_HTTP2\_STREAM\_ERROR

A non-zero error code was been specified in an RST\_STREAM frame.

ERR\_HTTP2\_STREAM\_SELF\_DEPENDENCY

When setting the priority for an HTTP/2 stream, the stream may be marked as a dependency for a parent stream. This error code is used when an attempt is made to mark a stream and dependent of itself.

ERR\_HTTP2\_TOO\_MANY\_CUSTOM\_SETTINGS

The number of supported custom settings (10) has been exceeded.

ERR\_HTTP2\_TOO\_MANY\_INVALID\_FRAMES

The limit of acceptable invalid HTTP/2 protocol frames sent by the peer, as specified through the Added in: v15.14.0 maxSessionInvalidFrames option, has been exceeded.

ERR\_HTTP2\_TRAILERS\_ALREADY\_SENT

Trailing headers have already been sent on the Http2Stream.

ERR\_HTTP2\_TRAILERS\_NOT\_READY

The http2stream.sendTrailers() method cannot be called until after the 'wantTrailers' event is emitted on an Http2Stream object. The 'wantTrailers' event will only be emitted if the waitForTrailers option is set for the Http2Stream.

ERR HTTP2 UNSUPPORTED PROTOCOL

http2.connect() was passed a URL that uses any protocol other than http: or https:..

ERR ILLEGAL CONSTRUCTOR

An attempt was made to construct an object using a non-public constructor.

ERR\_IMPORT\_ASSERTION\_TYPE\_FAILED

An import type attribute was provided, but the specified module is of a different type.

Added in: v17.1.0, v16.14.0

ERR IMPORT ASSERTION TYPE MISSING

An import attribute is missing, preventing the specified module to be imported.

Added in: v17.1.0, v16.14.0

ERR\_IMPORT\_ASSERTION\_TYPE\_UNSUPPORTED

An import attribute is not supported by this version of Node.js.

Added in: v17.1.0, v16.14.0

ERR\_IMPORT\_ATTRIBUTE\_UNSUPPORTED

An import attribute is not supported by this version of Node.js.

Added in: v20.10.0

ERR\_INCOMPATIBLE\_OPTION\_PAIR

An option pair is incompatible with each other and cannot be used at the same time.

ERR\_INPUT\_TYPE\_NOT\_ALLOWED

Stability: 1 - Experimental

The --input-type flag was used to attempt to execute a file. This flag can only be used with input via --eval , --print , or STDIN .

ERR\_INSPECTOR\_ALREADY\_ACTIVATED

While using the node:inspector module, an attempt was made to activate the inspector when it already started to listen on a port. Use inspector.close() before activating it on a different address.

ERR\_INSPECTOR\_ALREADY\_CONNECTED

While using the node:inspector module, an attempt was made to connect when the inspector was already connected.

ERR\_INSPECTOR\_CLOSED

While using the node:inspector module, an attempt was made to use the inspector after the session had already closed.

ERR\_INSPECTOR\_COMMAND

An error occurred while issuing a command via the node:inspector module.

ERR\_INSPECTOR\_NOT\_ACTIVE

The inspector is not active when inspector.waitForDebugger() is called.

ERR\_INSPECTOR\_NOT\_AVAILABLE

The node:inspector module is not available for use.

ERR\_INSPECTOR\_NOT\_CONNECTED

While using the node:inspector module, an attempt was made to use the inspector before it was connected.

ERR\_INSPECTOR\_NOT\_WORKER

An API was called on the main thread that can only be used from the worker thread.

ERR\_INTERNAL\_ASSERTION

There was a bug in Node.js or incorrect usage of Node.js internals. To fix the error, open an issue at <a href="https://github.com/nodejs/node/issues">https://github.com/nodejs/node/issues</a>.

ERR\_INVALID\_ADDRESS\_FAMILY

The provided address family is not understood by the Node.js API.

ERR\_INVALID\_ARG\_TYPE

An argument of the wrong type was passed to a Node.js API.

ERR\_INVALID\_ARG\_VALUE

An invalid or unsupported value was passed for a given argument.

ERR\_INVALID\_ASYNC\_ID

An invalid asyncId or triggerAsyncId was passed using AsyncHooks . An id less than -1 should never happen.

ERR\_INVALID\_BUFFER\_SIZE

A swap was performed on a Buffer but its size was not compatible with the operation.

ERR\_INVALID\_CHAR

Invalid characters were detected in headers.

ERR\_INVALID\_CURSOR\_POS

A cursor on a given stream cannot be moved to a specified row without a specified column.

ERR INVALID FD

A file descriptor ('fd') was not valid (e.g. it was a negative value).

ERR\_INVALID\_FD\_TYPE

A file descriptor ('fd') type was not valid.

ERR\_INVALID\_FILE\_URL\_HOST

A Node.js API that consumes file: URLs (such as certain functions in the  $\underline{fs}$  module) encountered a file URL with an incompatible host. This situation can only occur on Unix-like systems where only localhost or an empty host is supported.

ERR\_INVALID\_FILE\_URL\_PATH

A Node.js API that consumes file: URLs (such as certain functions in the <u>fs</u> module) encountered a file URL with an incompatible path. The exact semantics for determining whether a path can be used is platform-dependent.

ERR\_INVALID\_HANDLE\_TYPE

An attempt was made to send an unsupported "handle" over an IPC communication channel to a child process. See <a href="mailto:subprocess.send"><u>subprocess.send()</u></a> and <a href="mailto:process.send()">process.send()</a> for more information.

ERR\_INVALID\_HTTP\_TOKEN

An invalid HTTP token was supplied.

ERR\_INVALID\_IP\_ADDRESS

An IP address is not valid.

ERR\_INVALID\_MIME\_SYNTAX

The syntax of a MIME is not valid.

ERR INVALID MODULE

An attempt was made to load a module that does not exist or was otherwise not valid.

Added in: v15.0.0, v14.18.0

ERR INVALID MODULE SPECIFIER

The imported module string is an invalid URL, package name, or package subpath specifier.

ERR\_INVALID\_OBJECT\_DEFINE\_PROPERTY

An error occurred while setting an invalid attribute on the property of an object.

ERR\_INVALID\_PACKAGE\_CONFIG

An invalid package.json file failed parsing.

ERR\_INVALID\_PACKAGE\_TARGET

The package.json "exports" field contains an invalid target mapping value for the attempted module resolution.

ERR\_INVALID\_PERFORMANCE\_MARK

While using the Performance Timing API ( perf\_hooks ), a performance mark is invalid.

ERR\_INVALID\_PROTOCOL

An invalid options.protocol was passed to http.request().

ERR\_INVALID\_REPL\_EVAL\_CONFIG

Both breakEvalOnSigint and eval options were set in the REPL config, which is not supported.

ERR\_INVALID\_REPL\_INPUT

The input may not be used in the REPL. The conditions under which this error is used are described in the REPL documentation.

ERR INVALID RETURN PROPERTY

Thrown in case a function option does not provide a valid value for one of its returned object properties on execution.

ERR\_INVALID\_RETURN\_PROPERTY\_VALUE

Thrown in case a function option does not provide an expected value type for one of its returned object properties on execution.

ERR INVALID RETURN VALUE

Thrown in case a function option does not return an expected value type on execution, such as when a function is expected to return a promise.

ERR\_INVALID\_STATE

Indicates that an operation cannot be completed due to an invalid state. For instance, an object may Added in: v15.0.0 have already been destroyed, or may be performing another operation.

ERR\_INVALID\_SYNC\_FORK\_INPUT

A Buffer, TypedArray, DataView, or string was provided as stdio input to an asynchronous fork. See the documentation for the <a href="mailto:child\_process">child\_process</a> module for more information.

```
ERR_INVALID_THIS
```

A Node.js API function was called with an incompatible this value.

```
const urlSearchParams = new URLSearchParams('foo=bar&baz=new');

const buf = Buffer.alloc(1);
urlSearchParams.has.call(buf, 'foo');
// Throws a TypeError with code 'ERR_INVALID_THIS' copy
```

```
ERR_INVALID_TRANSFER_OBJECT
```

An invalid transfer object was passed to <code>postMessage()</code> .

```
ERR_INVALID_TUPLE
```

An element in the iterable provided to the <u>WHATWG URLSearchParams constructor</u> did not represent a [name, value] tuple – that is, if an element is not iterable, or does not consist of exactly two elements.

```
ERR_INVALID_URI
```

An invalid URI was passed.

```
ERR_INVALID_URL
```

An invalid URL was passed to the <u>WHATWG URL constructor</u> or the legacy <u>url.parse()</u> to be parsed. The thrown error object typically has an additional property 'input' that contains the URL that failed to parse.

```
ERR_INVALID_URL_SCHEME
```

An attempt was made to use a URL of an incompatible scheme (protocol) for a specific purpose. It is only used in the <u>WHATWG URL API</u> support in the <u>fs</u> module (which only accepts URLs with 'file' scheme), but may be used in other Node.js APIs as well in the future.

```
ERR_IPC_CHANNEL_CLOSED
```

An attempt was made to use an IPC communication channel that was already closed.

```
ERR_IPC_DISCONNECTED
```

An attempt was made to disconnect an IPC communication channel that was already disconnected. See the documentation for the <a href="mailto:child\_process">child\_process</a> module for more information.

ERR\_IPC\_ONE\_PIPE

An attempt was made to create a child Node.js process using more than one IPC communication channel. See the documentation for the child process module for more information.

ERR\_IPC\_SYNC\_FORK

An attempt was made to open an IPC communication channel with a synchronously forked Node.js process. See the documentation for the <a href="mailto:child\_process">child\_process</a> module for more information.

ERR\_LOADER\_CHAIN\_INCOMPLETE

An ESM loader hook returned without calling <code>next()</code> and without explicitly signaling a short Added in: v18.6.0, v16.17.0 circuit.

ERR MANIFEST ASSERT INTEGRITY

An attempt was made to load a resource, but the resource did not match the integrity defined by the policy manifest. See the documentation for <u>policy</u> manifests for more information.

ERR\_MANIFEST\_DEPENDENCY\_MISSING

An attempt was made to load a resource, but the resource was not listed as a dependency from the location that attempted to load it. See the documentation for <u>policy</u> manifests for more information.

ERR\_MANIFEST\_INTEGRITY\_MISMATCH

An attempt was made to load a policy manifest, but the manifest had multiple entries for a resource which did not match each other. Update the manifest entries to match in order to resolve this error. See the documentation for <u>policy</u> manifests for more information.

ERR\_MANIFEST\_INVALID\_RESOURCE\_FIELD

A policy manifest resource had an invalid value for one of its fields. Update the manifest entry to match in order to resolve this error. See the documentation for <u>policy</u> manifests for more information.

ERR\_MANIFEST\_INVALID\_SPECIFIER

A policy manifest resource had an invalid value for one of its dependency mappings. Update the manifest entry to match to resolve this error. See the documentation for <u>policy</u> manifests for more information.

ERR\_MANIFEST\_PARSE\_POLICY

An attempt was made to load a policy manifest, but the manifest was unable to be parsed. See the documentation for <u>policy</u> manifests for more information.

ERR\_MANIFEST\_TDZ

An attempt was made to read from a policy manifest, but the manifest initialization has not yet taken place. This is likely a bug in Node.js.

ERR\_MANIFEST\_UNKNOWN\_ONERROR

A policy manifest was loaded, but had an unknown value for its "onerror" behavior. See the documentation for <u>policy</u> manifests for more information.

ERR MEMORY ALLOCATION FAILED

An attempt was made to allocate memory (usually in the C++ layer) but it failed.

ERR MESSAGE TARGET CONTEXT UNAVAILABLE

A message posted to a MessagePort could not be deserialized in the target vm Context . Not Added in: v14.5.0, v12.19.0 all Node.js objects can be successfully instantiated in any context at this time, and attempting to transfer them using postMessage() can fail on the receiving side in that case.

ERR\_METHOD\_NOT\_IMPLEMENTED

A method is required but not implemented.

ERR\_MISSING\_ARGS

ERR\_MISSING\_OPTION

For APIs that accept options objects, some options might be mandatory. This code is thrown if a required option is missing.

ERR\_MISSING\_PASSPHRASE

An attempt was made to read an encrypted key without specifying a passphrase.

ERR\_MISSING\_PLATFORM\_FOR\_WORKER

The V8 platform used by this instance of Node.js does not support creating Workers. This is caused by lack of embedder support for Workers. In particular, this error will not occur with standard builds of Node.js.

## ERR\_MISSING\_TRANSFERABLE\_IN\_TRANSFER\_LIST

An object that needs to be explicitly listed in the transferList argument is in the object passed to a Added in: v15.0.0 postMessage() call, but is not provided in the transferList for that call. Usually, this is a MessagePort.

In Node.js versions prior to v15.0.0, the error code being used here was <u>ERR\_MISSING\_MESSAGE\_PORT\_IN\_TRANSFER\_LIST</u>. However, the set of transferable object types has been expanded to cover more types than MessagePort.

ERR MODULE NOT FOUND

A module file could not be resolved by the ECMAScript modules loader while attempting an import operation or when loading the program entry point.

ERR\_MULTIPLE\_CALLBACK

A callback was called more than once.

A callback is almost always meant to only be called once as the query can either be fulfilled or rejected but not both at the same time. The latter would be possible by calling a callback more than once.

ERR\_NAPI\_CONS\_FUNCTION

While using Node-API, a constructor passed was not a function.

ERR\_NAPI\_INVALID\_DATAVIEW\_ARGS

While calling napi\_create\_dataview(), a given offset was outside the bounds of the dataview or offset + length was larger than a length of given buffer.

ERR\_NAPI\_INVALID\_TYPEDARRAY\_ALIGNMENT

While calling napi\_create\_typedarray(), the provided offset was not a multiple of the element size.

ERR\_NAPI\_INVALID\_TYPEDARRAY\_LENGTH

While calling napi\_create\_typedarray(), (length \* size\_of\_element) + byte\_offset was larger than the length of given buffer.

ERR\_NAPI\_TSFN\_CALL\_JS

An error occurred while invoking the JavaScript portion of the thread-safe function.

ERR\_NAPI\_TSFN\_GET\_UNDEFINED

An error occurred while attempting to retrieve the JavaScript undefined value.

ERR\_NAPI\_TSFN\_START\_IDLE\_LOOP

On the main thread, values are removed from the queue associated with the thread-safe function in an idle loop. This error indicates that an error has occurred when attempting to start the loop.

ERR\_NAPI\_TSFN\_STOP\_IDLE\_LOOP

Once no more items are left in the queue, the idle loop must be suspended. This error indicates that the idle loop has failed to stop.

ERR\_NOT\_BUILDING\_SNAPSHOT

An attempt was made to use operations that can only be used when building V8 startup snapshot even though Node.js isn't building one.

ERR\_NOT\_IN\_SINGLE\_EXECUTABLE\_APPLICATION

The operation cannot be performed when it's not in a single-executable application.

Added in: v20.12.0

ERR NOT SUPPORTED IN SNAPSHOT

An attempt was made to perform operations that are not supported when building a startup snapshot.

ERR NO CRYPTO

An attempt was made to use crypto features while Node.js was not compiled with OpenSSL crypto support.

ERR\_NO\_ICU

An attempt was made to use features that require ICU, but Node.js was not compiled with ICU support.

ERR\_NON\_CONTEXT\_AWARE\_DISABLED

A non-context-aware native addon was loaded in a process that disallows them.

ERR\_OUT\_OF\_RANGE

A given value is out of the accepted range.

ERR\_PACKAGE\_IMPORT\_NOT\_DEFINED

The package.json "imports" field does not define the given internal package specifier mapping.

ERR\_PACKAGE\_PATH\_NOT\_EXPORTED

The package.json <u>"exports"</u> field does not export the requested subpath. Because exports are encapsulated, private internal modules that are not exported cannot be imported through the package resolution, unless using an absolute URL.

ERR\_PARSE\_ARGS\_INVALID\_OPTION\_VALUE

When strict set to true, thrown by <a href="https://doi.org/line.com/util.parseArgs">util.parseArgs</a>() if a <a href="https://doi.org/line.com/util.parseArgs">boolean</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https://doi.org/line.com/util.parseArgs">string</a> value is provided for an option of type <a href="https:

ERR PARSE ARGS UNEXPECTED POSITIONAL

Thrown by <a href="https://doi.org/10.10/10.15.20">util.parseArgs()</a>, when a positional argument is provided and allowPosition- Added in: v18.3.0, v16.17.0 als is set to false.

ERR PARSE ARGS UNKNOWN OPTION

When strict set to true, thrown by <a href="https://util.parseArgs()">util.parseArgs()</a> if an argument is not configured in Added in: v18.3.0, v16.17.0 options.

ERR\_PERFORMANCE\_INVALID\_TIMESTAMP

An invalid timestamp value was provided for a performance mark or measure.

ERR PERFORMANCE MEASURE INVALID OPTIONS

Invalid options were provided for a performance measure.

ERR\_PROTO\_ACCESS

Accessing Object.prototype.\_\_proto\_\_ has been forbidden using <a href="https://example.com/no-disable-proto=throw">--disable-proto=throw</a>. Object.getPrototypeOf and Object.setPrototypeOf should be used to get and set the prototype of an object.

ERR\_REQUIRE\_ESM

Stability: 1 - Experimental

An attempt was made to require() an ES Module.

ERR\_SCRIPT\_EXECUTION\_INTERRUPTED

Script execution was interrupted by SIGINT (For example, Ctrl+C was pressed.)

ERR\_SCRIPT\_EXECUTION\_TIMEOUT

Script execution timed out, possibly due to bugs in the script being executed.

ERR\_SERVER\_ALREADY\_LISTEN

The <u>server.listen()</u> method was called while a net.Server was already listening. This applies to all instances of net.Server, including HTTP, HTTPS, and HTTP/2 Server instances.

ERR\_SERVER\_NOT\_RUNNING

The <u>server.close()</u> method was called when a net.Server was not running. This applies to all instances of net.Server, including HTTP, HTTPS, and HTTP/2 Server instances.

ERR\_SINGLE\_EXECUTABLE\_APPLICATION\_ASSET\_NOT\_FOUND

A key was passed to single executable application APIs to identify an asset, but no match could be Added in: v20.12.0 found.

ERR\_SOCKET\_ALREADY\_BOUND

An attempt was made to bind a socket that has already been bound.

ERR\_SOCKET\_BAD\_BUFFER\_SIZE

An invalid (negative) size was passed for either the recvBufferSize or sendBufferSize options in <a href="mailto:dgram.createSocket()">dgram.createSocket()</a>.

ERR\_SOCKET\_BAD\_PORT

An API function expecting a port >= 0 and < 65536 received an invalid value.

ERR\_SOCKET\_BAD\_TYPE

An API function expecting a socket type ( udp4 or udp6 ) received an invalid value.

ERR\_SOCKET\_BUFFER\_SIZE

While using dgram.createSocket(), the size of the receive or send Buffer could not be determined.

ERR\_SOCKET\_CLOSED

An attempt was made to operate on an already closed socket.

ERR\_SOCKET\_CLOSED\_BEFORE\_CONNECTION

When calling <a href="net-Socket.write">net.Socket.write</a>() on a connecting socket and the socket was closed before the connection was established.

ERR\_SOCKET\_CONNECTION\_TIMEOUT

The socket was unable to connect to any address returned by the DNS within the allowed timeout when using the family autoselection algorithm.

ERR\_SOCKET\_DGRAM\_IS\_CONNECTED

A <u>dgram.connect()</u> call was made on an already connected socket.

ERR\_SOCKET\_DGRAM\_NOT\_CONNECTED

A <u>dgram.disconnect()</u> or <u>dgram.remoteAddress()</u> call was made on a disconnected socket.

ERR\_SOCKET\_DGRAM\_NOT\_RUNNING

A call was made and the UDP subsystem was not running.

ERR SRI PARSE

A string was provided for a Subresource Integrity check, but was unable to be parsed. Check the format of integrity attributes by looking at the <u>Subresource Integrity specification</u>.

ERR\_STREAM\_ALREADY\_FINISHED

A stream method was called that cannot complete because the stream was finished.

```
ERR_STREAM_CANNOT_PIPE
```

An attempt was made to call <a href="stream.pipe">stream.pipe</a>() on a <a href="writable">Writable</a> stream.

```
ERR_STREAM_DESTROYED
```

A stream method was called that cannot complete because the stream was destroyed using stream.destroy().

```
ERR_STREAM_NULL_VALUES
```

An attempt was made to call stream.write() with a null chunk.

```
ERR_STREAM_PREMATURE_CLOSE
```

An error returned by stream.finished() and stream.pipeline(), when a stream or a pipeline ends non gracefully with no explicit error.

```
ERR_STREAM_PUSH_AFTER_EOF
```

An attempt was made to call stream.push() after a null (EOF) had been pushed to the stream.

```
ERR_STREAM_UNSHIFT_AFTER_END_EVENT
```

An attempt was made to call stream.unshift() after the 'end' event was emitted.

```
ERR STREAM WRAP
```

Prevents an abort if a string decoder was set on the Socket or if the decoder is in objectMode.

```
const Socket = require('node:net').Socket;
const instance = new Socket();
instance.setEncoding('utf8'); copy
```

```
ERR_STREAM_WRITE_AFTER_END
```

An attempt was made to call stream.write() after stream.end() has been called.

```
ERR_STRING_TOO_LONG
```

An attempt has been made to create a string longer than the maximum allowed length.

ERR\_SYNTHETIC

An artificial error object used to capture the call stack for diagnostic reports.

ERR\_SYSTEM\_ERROR

An unspecified or non-specific system error has occurred within the Node.js process. The error object will have an err.info object property with additional details.

ERR\_TAP\_LEXER\_ERROR

An error representing a failing lexer state.

ERR\_TAP\_PARSER\_ERROR

An error representing a failing parser state. Additional information about the token causing the error is available via the cause property.

ERR\_TAP\_VALIDATION\_ERROR

This error represents a failed TAP validation.

ERR\_TEST\_FAILURE

This error represents a failed test. Additional information about the failure is available via the cause property. The failureType property specifies what the test was doing when the failure occurred.

ERR\_TLS\_ALPN\_CALLBACK\_INVALID\_RESULT

This error is thrown when an ALPNCallback returns a value that is not in the list of ALPN protocols offered by the client.

ERR\_TLS\_ALPN\_CALLBACK\_WITH\_PROTOCOLS

This error is thrown when creating a TLSServer if the TLS options include both ALPNProtocols and ALPNCallback . These options are mutually exclusive.

ERR\_TLS\_CERT\_ALTNAME\_FORMAT

This error is thrown by checkServerIdentity if a user-supplied subjectaltname property violates encoding rules. Certificate objects produced by Node.js itself always comply with encoding rules and will never cause this error.

ERR\_TLS\_CERT\_ALTNAME\_INVALID

While using TLS, the host name/IP of the peer did not match any of the subjectAltNames in its certificate.

ERR\_TLS\_DH\_PARAM\_SIZE

While using TLS, the parameter offered for the Diffie-Hellman ( DH ) key-agreement protocol is too small. By default, the key length must be greater than or equal to 1024 bits to avoid vulnerabilities, even though it is strongly recommended to use 2048 bits or larger for stronger security.

ERR\_TLS\_HANDSHAKE\_TIMEOUT

A TLS/SSL handshake timed out. In this case, the server must also abort the connection.

ERR\_TLS\_INVALID\_CONTEXT

The context must be a SecureContext.

Added in: v13.3.0

ERR TLS INVALID PROTOCOL METHOD

The specified secureProtocol method is invalid. It is either unknown, or disabled because it is insecure.

ERR\_TLS\_INVALID\_PROTOCOL\_VERSION

Valid TLS protocol versions are 'TLSv1', 'TLSv1.1', or 'TLSv1.2'.

ERR\_TLS\_INVALID\_STATE

The TLS socket must be connected and securely established. Ensure the 'secure' event is Added in: v13.10.0, v12.17.0 emitted before continuing.

ERR\_TLS\_PROTOCOL\_VERSION\_CONFLICT

Attempting to set a TLS protocol minVersion or maxVersion conflicts with an attempt to set the secureProtocol explicitly. Use one mechanism or the other.

ERR\_TLS\_PSK\_SET\_IDENTIY\_HINT\_FAILED

Failed to set PSK identity hint. Hint may be too long.

ERR\_TLS\_RENEGOTIATION\_DISABLED

An attempt was made to renegotiate TLS on a socket instance with renegotiation disabled.

ERR\_TLS\_REQUIRED\_SERVER\_NAME

While using TLS, the server.addContext() method was called without providing a host name in the first parameter.

ERR\_TLS\_SESSION\_ATTACK

An excessive amount of TLS renegotiations is detected, which is a potential vector for denial-of-service attacks.

ERR\_TLS\_SNI\_FROM\_SERVER

An attempt was made to issue Server Name Indication from a TLS server-side socket, which is only valid from a client.

ERR\_TRACE\_EVENTS\_CATEGORY\_REQUIRED

The trace\_events.createTracing() method requires at least one trace event category.

ERR\_TRACE\_EVENTS\_UNAVAILABLE

The node:trace\_events module could not be loaded because Node.js was compiled with the --without-v8-platform flag.

ERR\_TRANSFORM\_ALREADY\_TRANSFORMING

A Transform stream finished while it was still transforming.

ERR TRANSFORM WITH LENGTH 0

A Transform stream finished with data still in the write buffer.

ERR\_TTY\_INIT\_FAILED

The initialization of a TTY failed due to a system error.

ERR\_UNAVAILABLE\_DURING\_EXIT

Function was called within a process.on('exit') handler that shouldn't be called within process.on('exit') handler.

ERR\_UNCAUGHT\_EXCEPTION\_CAPTURE\_ALREADY\_SET

process.setUncaughtExceptionCaptureCallback() was called twice, without first resetting the callback to null .

This error is designed to prevent accidentally overwriting a callback registered from another module.

ERR UNESCAPED CHARACTERS

A string that contained unescaped characters was received.

```
ERR_UNHANDLED_ERROR
```

An unhandled error occurred (for instance, when an 'error' event is emitted by an <u>EventEmitter</u> but an 'error' handler is not registered).

```
ERR_UNKNOWN_BUILTIN_MODULE
```

Used to identify a specific kind of internal Node.js error that should not typically be triggered by user code. Instances of this error point to an internal bug within the Node.js binary itself.

```
ERR_UNKNOWN_CREDENTIAL
```

A Unix group or user identifier that does not exist was passed.

```
ERR UNKNOWN ENCODING
```

An invalid or unknown encoding option was passed to an API.

```
ERR_UNKNOWN_FILE_EXTENSION
```

```
Stability: 1 - Experimental
```

An attempt was made to load a module with an unknown or unsupported file extension.

```
ERR_UNKNOWN_MODULE_FORMAT
```

```
Stability: 1 - Experimental
```

An attempt was made to load a module with an unknown or unsupported format.

```
ERR UNKNOWN SIGNAL
```

An invalid or unknown process signal was passed to an API expecting a valid signal (such as <a href="subprocess.kill(">subprocess.kill()</a>).

```
ERR_UNSUPPORTED_DIR_IMPORT
```

import a directory URL is unsupported. Instead, <u>self-reference a package using its name</u> and <u>define a custom subpath</u> in the <u>"exports"</u> field of the <u>package.json</u> file.

```
import './'; // unsupported
import './index.js'; // supported
import 'package-name'; // supported copy
```

```
ERR_UNSUPPORTED_ESM_URL_SCHEME
```

import with URL schemes other than file and data is unsupported.

```
ERR_UNSUPPORTED_RESOLVE_REQUEST
```

An attempt was made to resolve an invalid module referrer. This can happen when importing or calling import.meta.resolve() with either:

- a bare specifier that is not a builtin module from a module whose URL scheme is not file .
- a <u>relative URL</u> from a module whose URL scheme is not a <u>special scheme</u>.

```
try {
   // Trying to import the package 'bare-specifier' from a `data:` URL module:
   await import('data:text/javascript,import "bare-specifier"');
} catch (e) {
   console.log(e.code); // ERR_UNSUPPORTED_RESOLVE_REQUEST
} copy
```

```
ERR USE AFTER CLOSE
```

```
<u>Stability: 1</u> - Experimental
```

An attempt was made to use something that was already closed.

```
ERR_VALID_PERFORMANCE_ENTRY_TYPE
```

While using the Performance Timing API ( perf\_hooks ), no valid performance entry types are found.

```
ERR_VM_DYNAMIC_IMPORT_CALLBACK_MISSING_FLAG
```

A dynamic import callback was invoked without --experimental-vm-modules .

```
ERR_VM_DYNAMIC_IMPORT_CALLBACK_MISSING
```

A dynamic import callback was not specified.

```
ERR_VM_MODULE_ALREADY_LINKED
```

The module attempted to be linked is not eligible for linking, because of one of the following reasons:

- It has already been linked (linkingStatus is 'linked')
- It is being linked (linkingStatus is 'linking')

• Linking has failed for this module (linkingStatus is 'errored')

ERR\_VM\_MODULE\_CACHED\_DATA\_REJECTED

The cachedData option passed to a module constructor is invalid.

ERR\_VM\_MODULE\_CANNOT\_CREATE\_CACHED\_DATA

Cached data cannot be created for modules which have already been evaluated.

ERR\_VM\_MODULE\_DIFFERENT\_CONTEXT

The module being returned from the linker function is from a different context than the parent module. Linked modules must share the same context.

ERR\_VM\_MODULE\_LINK\_FAILURE

The module was unable to be linked due to a failure.

ERR\_VM\_MODULE\_NOT\_MODULE

The fulfilled value of a linking promise is not a vm.Module object.

ERR\_VM\_MODULE\_STATUS

The current module's status does not allow for this operation. The specific meaning of the error depends on the specific function.

ERR\_WASI\_ALREADY\_STARTED

The WASI instance has already started.

ERR\_WASI\_NOT\_STARTED

The WASI instance has not been started.

ERR\_WEBASSEMBLY\_RESPONSE

The Response that has been passed to WebAssembly.compileStreaming or to Added in: v18.1.0 WebAssembly.instantiateStreaming is not a valid WebAssembly response.

ERR\_WORKER\_INIT\_FAILED

The Worker initialization failed.

ERR\_WORKER\_INVALID\_EXEC\_ARGV

The execArgy option passed to the Worker constructor contains invalid flags.

ERR\_WORKER\_NOT\_RUNNING

An operation failed because the Worker instance is not currently running.

ERR\_WORKER\_OUT\_OF\_MEMORY

The Worker instance terminated because it reached its memory limit.

ERR\_WORKER\_PATH

The path for the main script of a worker is neither an absolute path nor a relative path starting with ./ or ../.

ERR\_WORKER\_UNSERIALIZABLE\_ERROR

All attempts at serializing an uncaught exception from a worker thread failed.

ERR WORKER UNSUPPORTED OPERATION

The requested functionality is not supported in worker threads.

ERR\_ZLIB\_INITIALIZATION\_FAILED

Creation of a zlib object failed due to incorrect configuration.

HPE HEADER OVERFLOW

Too much HTTP header data was received. In order to protect against malicious or malconfigured clients, if Mistory more than 8 KiB of HTTP header data is received then HTTP parsing will abort without a request or response object being created, and an Error with this code will be emitted.

HPE CHUNK EXTENSIONS OVERFLOW

Too much data was received for a chunk extensions. In order to protect against malicious or malcon- Added in: v20.11.1 figured clients, if more than 16 KiB of data is received then an Error with this code will be emitted.

HPE\_UNEXPECTED\_CONTENT\_LENGTH

Server is sending both a Content-Length header and Transfer-Encoding: chunked.

Transfer-Encoding: chunked allows the server to maintain an HTTP persistent connection for dynamically generated content. In this case, the Content-Length HTTP header cannot be used.

Use Content-Length or Transfer-Encoding: chunked.

MODULE\_NOT\_FOUND

A module file could not be resolved by the CommonJS modules loader while attempting a <u>require()</u> operation 

History or when loading the program entry point.

Legacy Node.js error codes

Stability: 0 - Deprecated. These error codes are either inconsistent, or have been removed.

ERR\_CANNOT\_TRANSFER\_OBJECT

The value passed to postMessage() contained an object that is not supported for Added in: v10.5.0Removed in: v12.5.0 transferring.

ERR\_CRYPTO\_HASH\_DIGEST\_NO\_UTF16

The UTF-16 encoding was used with <a href="hash.digest()">hash.digest()</a>. While the hash.digest() Added in: v9.0.0Removed in: v12.12.0 method does allow an encoding argument to be passed in, causing the method to return a string rather than a Buffer , the UTF-16 encoding (e.g. ucs or utf16le ) is not supported.

ERR HTTP2 FRAME ERROR

Used when a failure occurs sending an individual frame on the HTTP/2 session.

Added in: v9.0.0Removed in: v10.0.0

ERR HTTP2 HEADERS OBJECT

Used when an HTTP/2 Headers Object is expected.

Added in: v9.0.0Removed in: v10.0.0

ERR HTTP2 HEADER REQUIRED

Used when a required header is missing in an HTTP/2 message.

Added in: v9.0.0Removed in: v10.0.0

ERR\_HTTP2\_INFO\_HEADERS\_AFTER\_RESPOND

HTTP/2 informational headers must only be sent *prior* to calling the Added in: v9.0.0Removed in: v10.0.0 Http2Stream.prototype.respond() method.

ERR\_HTTP2\_STREAM\_CLOSED

Used when an action has been performed on an HTTP/2 Stream that has already Added in: v9.0.0Removed in: v10.0.0 been closed.

ERR\_HTTP\_INVALID\_CHAR

Used when an invalid character is found in an HTTP response status message (reason Added in: v9.0.0Removed in: v10.0.0 phrase).

ERR\_INDEX\_OUT\_OF\_RANGE

A given index was out of the accepted range (e.g. negative offsets).

Added in: v10.0.0Removed in: v11.0.0

ERR INVALID OPT VALUE

An invalid or unexpected value was passed in an options object.

Added in: v8.0.0Removed in: v15.0.0

ERR\_INVALID\_OPT\_VALUE\_ENCODING

An invalid or unknown file encoding was passed.

Added in: v9.0.0Removed in: v15.0.0

ERR\_MISSING\_MESSAGE\_PORT\_IN\_TRANSFER\_LIST

This error code was replaced by <u>ERR\_MISSING\_TRANSFERABLE\_IN\_TRANSFER\_LIST</u> in Node.js v15.0.0, because it is no longer accurate as other types of transferable objects also exist now.

ERR NAPI CONS PROTOTYPE OBJECT

Used by the Node-API when Constructor.prototype is not an object.

Added in: v9.0.0Removed in: v10.0.0

ERR NETWORK IMPORT BAD RESPONSE

Stability: 1 - Experimental

Response was received but was invalid when importing a module over the network.

ERR\_NETWORK\_IMPORT\_DISALLOWED

Stability: 1 - Experimental

A network module attempted to load another module that it is not allowed to load. Likely this restriction is for security reasons.

ERR\_NO\_LONGER\_SUPPORTED

A Node.js API was called in an unsupported manner, such as Buffer.write(string, encoding, offset[, length]).

ERR OPERATION FAILED

An operation failed. This is typically used to signal the general failure of an asynchronous operation.

Added in: v15.0.0

ERR OUTOFMEMORY

Used generically to identify that an operation caused an out of memory condition. Added in: v9.0.0Removed in: v10.0.0

ERR\_PARSE\_HISTORY\_DATA

The node:rep1 module was unable to parse data from the REPL history file. Added in: v9.0.0Removed in: v10.0.0

ERR SOCKET CANNOT SEND

Data could not be sent on a socket.

Added in: v9.0.0Removed in: v14.0.0

ERR\_STDERR\_CLOSE

An attempt was made to close the process.stderr stream. By design, Node.js does not allow stdout or ▶ History stderr streams to be closed by user code.

ERR\_STDOUT\_CLOSE

An attempt was made to close the process.stdout stream. By design, Node.js does not allow stdout or ▶ History stderr streams to be closed by user code.

ERR\_STREAM\_READ\_NOT\_IMPLEMENTED

Used when an attempt is made to use a readable stream that has not implemented Added in: v9.0.0Removed in: v10.0.0 readable. read().

Added in: v9.0.0Removed in: v10.0.0

ERR\_TLS\_RENEGOTIATION\_FAILED

Used when a TLS renegotiation request has failed in a non-specific way.

#### ERR\_TRANSFERRING\_EXTERNALIZED\_SHAREDARRAYBUFFER

A SharedArrayBuffer whose memory is not managed by the JavaScript engine or Added in: v10.5.0Removed in: v14.0.0 by Node.js was encountered during serialization. Such a SharedArrayBuffer cannot be serialized.

This can only happen when native addons create SharedArrayBuffer's in "externalized" mode, or put existing SharedArrayBuffer into externalized mode.

#### ERR\_UNKNOWN\_STDIN\_TYPE

An attempt was made to launch a Node.js process with an unknown stdin file type. Added in: v8.0.0Removed in: v11.7.0 This error is usually an indication of a bug within Node.js itself, although it is possible for user code to trigger it.

## ERR\_UNKNOWN\_STREAM\_TYPE

An attempt was made to launch a Node.js process with an unknown stdout or Added in: v8.0.0Removed in: v11.7.0 stderr file type. This error is usually an indication of a bug within Node.js itself, although it is possible for user code to trigger it.

#### ERR V8BREAKITERATOR

The V8 BreakIterator API was used but the full ICU data set is not installed.

## ERR\_VALUE\_OUT\_OF\_RANGE

Used when a given value is out of the accepted range.

Added in: v9.0.0Removed in: v10.0.0

#### ERR\_VM\_MODULE\_NOT\_LINKED

The module must be successfully linked before instantiation.

#### ERR VM MODULE LINKING ERRORED

The linker function returned a module for which linking has failed.

Added in: v10.0.0Removed in: v18.1.0, v16.17.0

### ERR\_WORKER\_UNSUPPORTED\_EXTENSION

The pathname used for the main script of a worker has an unknown file extension. Added in: v11.0.0Removed in: v16.9.0

ERR\_ZLIB\_BINDING\_CLOSED

Used when an attempt is made to use a zlib object after it has already been Added in: v9.0.0Removed in: v10.0.0 closed.

ERR\_CPU\_USAGE

The native call from process.cpuUsage could not be processed.

Removed in: v15.0.0

## **OpenSSL Error Codes**

# **Time Validity Errors**

CERT\_NOT\_YET\_VALID

The certificate is not yet valid: the notBefore date is after the current time.

CERT\_HAS\_EXPIRED

The certificate has expired: the notAfter date is before the current time.

CRL\_NOT\_YET\_VALID

The certificate revocation list (CRL) has a future issue date.

CRL\_HAS\_EXPIRED

The certificate revocation list (CRL) has expired.

CERT\_REVOKED

The certificate has been revoked; it is on a certificate revocation list (CRL).

## **Trust or Chain Related Errors**

UNABLE\_TO\_GET\_ISSUER\_CERT

The issuer certificate of a looked up certificate could not be found. This normally means the list of trusted certificates is not complete.

UNABLE\_TO\_GET\_ISSUER\_CERT\_LOCALLY

The certificate's issuer is not known. This is the case if the issuer is not included in the trusted certificate list.

DEPTH ZERO SELF SIGNED CERT

The passed certificate is self-signed and the same certificate cannot be found in the list of trusted certificates.

SELF\_SIGNED\_CERT\_IN\_CHAIN

The certificate's issuer is not known. This is the case if the issuer is not included in the trusted certificate list.

CERT\_CHAIN\_TOO\_LONG

The certificate chain length is greater than the maximum depth.

UNABLE\_TO\_GET\_CRL

The CRL reference by the certificate could not be found.

UNABLE\_TO\_VERIFY\_LEAF\_SIGNATURE

No signatures could be verified because the chain contains only one certificate and it is not self signed.

CERT\_UNTRUSTED

The root certificate authority (CA) is not marked as trusted for the specified purpose.

#### **Basic Extension Errors**

INVALID\_CA

A CA certificate is invalid. Either it is not a CA or its extensions are not consistent with the supplied purpose.

PATH\_LENGTH\_EXCEEDED

The basicConstraints pathlength parameter has been exceeded.

#### Name Related Errors

HOSTNAME\_MISMATCH

Certificate does not match provided name.

# **Usage and Policy Errors**

INVALID\_PURPOSE

The supplied certificate cannot be used for the specified purpose.

CERT\_REJECTED

The root CA is marked to reject the specified purpose.

## **Formatting Errors**

CERT\_SIGNATURE\_FAILURE

The signature of the certificate is invalid.

CRL\_SIGNATURE\_FAILURE

The signature of the certificate revocation list (CRL) is invalid.

ERROR\_IN\_CERT\_NOT\_BEFORE\_FIELD

The certificate notBefore field contains an invalid time.

ERROR\_IN\_CERT\_NOT\_AFTER\_FIELD

The certificate notAfter field contains an invalid time.

ERROR\_IN\_CRL\_LAST\_UPDATE\_FIELD

The CRL lastUpdate field contains an invalid time.

ERROR\_IN\_CRL\_NEXT\_UPDATE\_FIELD

The CRL nextUpdate field contains an invalid time.

UNABLE\_TO\_DECRYPT\_CERT\_SIGNATURE

The certificate signature could not be decrypted. This means that the actual signature value could not be determined rather than it not matching the expected value, this is only meaningful for RSA keys.

UNABLE\_TO\_DECRYPT\_CRL\_SIGNATURE

The certificate revocation list (CRL) signature could not be decrypted: this means that the actual signature value could not be determined rather than it not matching the expected value.

UNABLE\_TO\_DECODE\_ISSUER\_PUBLIC\_KEY

The public key in the certificate SubjectPublicKeyInfo could not be read.

#### Other OpenSSL Errors

OUT\_OF\_MEM

An error occurred trying to allocate memory. This should never happen.

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<a href="https://nodejs.org/dist/latest-v20.x/docs/api/errors.html">https://nodejs.org/dist/latest-v20.x/docs/api/errors.html</a>

Exported from DevDocs — https://devdocs.io