Exception Handling

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-
        c\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 1)
```

Unknown directive type "highlight".

.. highlight:: c

The functions described in this chapter will let you handle and raise Python exceptions. It is important to understand some of the basics of Python exception handling. It works somewhat like the POSIX :c:data:'ermo' variable: there is a global indicator (per thread) of the last error that occurred. Most C API functions don't clear this on success, but will set it to indicate the cause of the error on failure. Most C API functions also return an error indicator, usually NULL if they are supposed to return a pointer, or -1 if they return an integer (exception: the :c:func: 'PyArg_*' functions return 1 for success and 0 for failure).

main] [Doc] [c-api] exceptions.rst, line 10); backlink \Doc\c-api\[cpython

Unknown interpreted text role "c:data".

 $System\,Message:\,ERROR/3\,(\text{D:}\cdot\color="color=$ main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 10); backlink

Unknown interpreted text role "c:func".

Concretely, the error indicator consists of three object pointers: the exception's type, the exception's value, and the traceback object. Any of those pointers can be NULL if non-set (although some combinations are forbidden, for example you can't have a non-NULL traceback if the exception type is NULL).

When a function must fail because some function it called failed, it generally doesn't set the error indicator; the function it called already set it. It is responsible for either handling the error and clearing the exception or returning after cleaning up any resources it holds (such as object references or memory allocations); it should not continue normally if it is not prepared to handle the error. If returning due to an error, it is important to indicate to the caller that an error has been set. If the error is not handled or carefully propagated, additional calls into the Python/C API may not behave as intended and may fail in mysterious ways

The error indicator is **not** the result of :func:`sys.exc info()`. The former corresponds to an exception that is not yet caught (and is therefore still propagating), while the latter returns an exception after it is caught (and has therefore stopped propagating).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboardingain\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 37); backlink

Unknown interpreted text role "func".

Printing and clearing

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonin\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 47)

Unknown directive type "c:function".

.. c:function:: void PyErr Clear()

Clear the error indicator. If the error indicator is not set, there is no

 $System\,Message:\,ERROR/3\, (\texttt{D:} \ \ \ \ \ \ \ \ \ \ \ \ \)$ \Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 53)

Unknown directive type "c:function".

. c:function:: void PyErr_PrintEx(int set_sys_last_vars)

Print a standard traceback to ``sys.stderr`` and clear the error indicator. **Unless** the error is a ``SystemExit``, in that case no traceback is printed and the Python process will exit with the error code specified by the ``SystemExit`` instance.

Call this function **only** when the error indicator is set. Otherwise it will cause a fatal error!

If *set_sys_last_vars* is nonzero, the variables :data:`sys.last_type`, :data:`sys.last_value` and :data:`sys.last_traceback` will be set to the type, value and traceback of the printed exception, respectively.

System Message: ERROR/3 (D:\onb arding-resources\sample n\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 68)

Unknown directive type "c:function".

```
.. c:function:: void PyErr_Print()
  Alias for ``PyErr_PrintEx(1)``.
```

System Message: ERROR/3 (D:\onboarding-r in\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 73)

Unknown directive type "c:function".

```
.. c:function:: void PvErr WriteUnraisable(PvObject *obj)
```

Call :func:`sys.unraisablehook` using the current exception and *obj*

This utility function prints a warning message to ``sys.stderr`` when an exception has been set but it is impossible for the interpreter to actually raise the exception. It is used, for example, when an exception occurs in an extensive of the control of the con :meth:`__del__` method.

The function is called with a single argument *obj* that identifies the context in which the unraisable exception occurred. If possible,

the repr of *obj* will be printed in the warning message.

An exception must be set when calling this function.

Raising exceptions

These functions help you set the current thread's error indicator. For convenience, some of these functions will always return a <code>NULL</code> pointer for use in a <code>return</code> statement.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 98)

Unknown directive type "c:function".

.. c:function:: void PyErr SetString(PyObject *type, const char *message)

This is the most common way to set the error indicator. The first argument specifies the exception type; it is normally one of the standard exceptions, e.g. :c:data: `PyExc_RuntimeError` You need not increment its reference count. The second argument is an error message; it is decoded from ``'utf-8'``.

 $System \, Message: ERROR/3 \, (\texttt{D:\noboarding-resources} \ sample-onboarding-resources \ courtes \ time \, 106)$

Unknown directive type "c:function".

.. c:function:: void PyErr_SetObject(PyObject *type, PyObject *value)

This function is similar to :c:func: $PyErr_SetString$ but lets you specify an arbitrary Python object for the "value" of the exception.

 $System Message: ERROR/3 (p:\onboarding-resources\ample-onboarding-resources\cpython-main\coc-api\[cother-main][Doc][c-api]] exceptions.rst, line 112)$

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_Format(PyObject *exception, const char *format, ...)

This function sets the error indicator and returns ``NULL``. *exception* should be a Python exception class. The *format* and subsequent parameters help format the error message; they have the same meaning and values as in :c:func:`PyUnicode_FromFormat`. *format* is an ASCII-encoded string.

 $System \, Message: ERROR/3 \, (D: \onboarding-resources \ample-onboarding-resources \c) \\ resources \ample-onboarding-resources \c) \\ resources \c) \\ resource$

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_FormatV(PyObject *exception, const char *format, va_list vargs)

Same as :c:func:`PyErr_Format`, but taking a :c:type:`va_list` argument rather than a variable number of arguments.

.. versionadded:: 3.5

 $System \, Message: ERROR/3 \, (\cite{Description} in the control of the control o$

Unknown directive type "c:function".

.. c:function:: void PyErr_SetNone(PyObject *type)

This is a shorthand for ``PyErr_SetObject(type, Py_None)``.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main|Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 134)

Unknown directive type "c:function".

.. c:function:: int PyErr_BadArgument()

This is a shorthand for ``PyErr_SetString(PyExc_TypeError, message)``, where *message* indicates that a built-in operation was invoked with an illegal argument. It is mostly for internal use.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 141)

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_NoMemory()

This is a shorthand for ``PyErr_SetNone(PyExc_MemoryError)``; it returns ``NULL`` so an object allocation function can write ``return PyErr_NoMemory();`` when it runs out of memory.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 148)

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_SetFromErrno(PyObject *type)

.. index:: single: strerror()

This is a convenience function to raise an exception when a C library function has returned an error and set the C variable :c:data: errno`. It constructs a tuple object whose first item is the integer :c:data: errno` value and whose second item is the corresponding error message (gotten from :c:func: strerror`), and then calls `'PyErr_SetObject(type, object)`'. On Unix, when the :c:data: errno` value is :const: EINTR', indicating an interrupted system call, this calls :c:func: PyErr_CheckSignals`, and if that set the error indicator, leaves it set to that. The function always returns `'NULL'`, so a wrapper function around a system call can write `'return PyErr_SetFromErrno(type);``

when the system call returns an error.

```
System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 164)
```

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_SetFromErrnoWithFilenameObject (PyObject *type, PyObject *filenameObject)

Similar to :c:func:`PyErr_SetFromErrno`, with the additional behavior that if *filenameObject* is not ``NULL``, it is passed to the constructor of *type* as a third parameter. In the case of :exc: OSError` exception, this is used to define the :attr:'filename` attribute of the exception instance.

 $System Message: ERROR/3 \ (D:\onboarding-resources\ sample-onboarding-resources\ cpython-main\ [Doc\ c-api\ [c-api] exceptions.rst, line 173)$

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_SetFromErrnoWithFilenameObjects(PyObject *type, PyObject *filenameObject, PyObject *filenameObject)

Similar to :c:func:`PyErr_SetFromErrnoWithFilenameObject`, but takes a second filename object, for raising errors when a function that takes two filenames fails.

.. versionadded:: 3.4

 $System\ Message: ERROR/3\ (D:\onboarding-resources\sample-onboarding-resources\cpython\ main\Doc\c-api\[cpython-main\][Doc\][c-api\]] exceptions.rst, line 182)$

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_SetFromErrnoWithFilename(PyObject *type, const char *filename)

Similar to :c:func:`PyErr_SetFromErrnoWithFilenameObject`, but the filename is given as a C string. *filename* is decoded from the :term:`filesystem encoding and error handler'.

 $System\ Message: ERROR/3\ (D:\onboarding-resources\sumple-onboarding-resources\cpython-main\coc-api\[copthon-main\column]\cite[Doo]\cite[c-api\cite]\cite[copthon-main\cite[$

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_SetFromWindowsErr(int ierr)

This is a convenience function to raise :exc:`WindowsError`. If called with *ierr* of :c:data:`O`, the error code returned by a call to :c:func:`GetLastError` is used instead. It calls the Win32 function :c:func:`FormatMessage` to retrieve the Windows description of error code given by *ierr* or :c:func:`GetLastError`, then it constructs a tuple object whose first item is the *ierr* value and whose second item is the corresponding error message (gotten from :c:func:`FormatMessage`), and then calls ``PyErr SetObject(PyExc_WindowsError, object)``. This function always returns ``NULL``.

.. availability:: Windows.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 203)

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_SetExcFromWindowsErr(PyObject *type, int ierr)

Similar to :c:func: $PyErr_SetFromWindowsErr$, with an additional parameter specifying the exception type to be raised.

.. availability:: Windows.

 $System \, Message: ERROR/3 \ (D:\nboarding-resources\sample-onboarding-resources\cpython main\c-epi\[epython-main\][Doc\][c-api\]] exceptions.rst, line 211)$

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_SetFromWindowsErrWithFilename(int ierr, const char *filename)

Similar to :c:func:`PyErr_SetFromWindowsErrWithFilenameObject`, but the filename is given as a C string. *filename* is decoded from the filesystem encoding (:func:`os.fsdecode`).

.. availability:: Windows.

 $System\ Message: ERROR/3\ (D:\nboarding-resources\sumple-onboarding-resources\sumple$

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_SetExcFromWindowsErrWithFilenameObject(PyObject *type, int ierr, PyObject *filename)

Similar to :c:func:`PyErr_SetFromWindowsErrWithFilenameObject`, with an additional parameter spec \overline{i} fying the exception type to be raised.

.. availability:: Windows.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 228)

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr SetExcFromWindowsErrWithFilenameObjects(PyObject *type, int ierr, PyObject *filename, PyObject

Similar to :c:func: PyErr_SetExcFromWindowsErrWithFilenameObject', but accepts a second filename object.

.. availability:: Windows.

```
System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 238)
```

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyErr_SetExcFromWindowsErrWithFilename(PyObject *type, int ierr, const char *filename)

Similar to :c:func:`PyErr_SetFromWindowsErrWithFilename`, with an additional
parameter specifying the exception type to be raised.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython

in\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 246)

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyErr_SetImportError(PyObject *msg, PyObject *name, PyObject *path)

This is a convenience function to raise :exc:`ImportError`. *msg* will be
set as the exception's message string. *name* and *path*, both of which can
be ``NULL``, will be set as the :exc:`ImportError`'s respective ``name``
and ``path`` attributes.
```

.. versionadded:: 3.3

.. availability:: Windows.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 256)

Unknown directive type "c:function".

```
.. c:function:: PyObject* PyErr_SetImportErrorSubclass(PyObject *exception, PyObject *nsg, PyObject *name, PyObject *path)

Much like :c:func:`PyErr_SetImportError` but this function allows for specifying a subclass of :exc:`ImportError` to raise.

.. versionadded:: 3.6
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 264)

Unknown directive type "c:function".

```
.. c:function:: void PyErr_SyntaxLocationObject(PyObject *filename, int lineno, int coloffset)

Set file, line, and offset information for the current exception. If the current exception is not a :exc: 'SyntaxError', then it sets additional attributes, which make the exception printing subsystem think the exception is a :exc: 'SyntaxError'.

.. versionadded:: 3.4
```

 $System \, Message: ERROR/3 \, (\cite{Description} in \cite{Description} example-on boarding-resources \cite{Description} example-on boa$

Unknown directive type "c:function".

```
.. c:function:: void PyErr_SyntaxLocationEx(const char *filename, int lineno, int col_offset)

Like :c:func:`PyErr_SyntaxLocationObject`, but *filename* is a byte string
decoded from the :term:`filesystem encoding and error handler`.

.. versionadded:: 3.2
```

 $System \, Message: ERROR/3 \, (\texttt{D:\noboarding-resources} \ sample-onboarding-resources \ cpython-main\ [coc] \, [c-api] \, exceptions.rst, \, line \, 282)$

Unknown directive type "c:function".

```
.. c:function:: void PyErr_SyntaxLocation(const char *filename, int lineno)
Like :c:func:`PyErr_SyntaxLocationEx`, but the *col_offset* parameter is
omitted.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] exceptions.rst, line 288)

Unknown directive type "c:function".

.. c:function:: void PyErr BadInternalCall()

```
This is a shorthand for ``PyErr_SetString(PyExc_SystemError, message)``, where ^*message* indicates that an internal operation (e.g. a Python/C API function) was invoked with an illegal argument. It is mostly for internal use.
```

Issuing warnings

Use these functions to issue warnings from C code. They mirror similar functions exported by the Python mod' warnings' module. They normally print a warning message to \$15.57derr*; however, it is also possible that the user has specified that warnings are to be turned into errors, and in that case they will raise an exception. It is also possible that the functions raise an exception because of a problem with the warning machinery. The return value is 0 if no exception is raised, or -1 if an exception is raised. (It is not possible to determine whether a warning message is actually printed, nor what the reason is for the exception; this is intentional.) If an exception is raised, the caller should do its normal exception handling (for example, x-fine: Py_DECREF* owned references and return an error value).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 299); backlink

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources) in\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 299); backlink Unknown interpreted text role "c:func". $System\,Message:\,ERROR/3\,(\texttt{D:}\label{localing-resources}) sample-onboarding-resources \verb|\color=ding-resources|| to the control of the contr$ n\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 312) Unknown directive type "c:function". . c:function:: int PyErr_WarnEx(PyObject *category, const char *message, Py_ssize_t st Issue a warning message. The *category* argument is a warning category (see below) or ``NULL`; the *message* argument is a UTF-8 encoded string. *stack_level positive number giving a number of stack frames; the warning will be issued from the currently executing line of code in that stack frame. A *stack_level of 1 is the function calling :c:func: 'PyErr_WarnEx', 2 is the function above that, and so forth. and so forth. Warning categories must be subclasses of :c:data:`PyExc_Warning`; :c:data:`PyExc_Warning` is a subclass of :c:data:`PyExc_Exception`; the default warning category is :c:data:`PyExc_RuntimeWarning`. The standard Python warning categories are available as global variables whose names are enumerated at :ref:`standardwarningcategories`. For information about warning control, see the documentation for the :mod:`warnings` module and the :option:`-W` option in the command line documentation. There is no C API for warning control. System Message: ERROR/3 (D:\onboarding-resources\sample-o rding-resources\cpythonain\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 332) Unknown directive type "c:function". .. c:function:: int PyErr_WarnExplicitObject(PyObject *category, PyObject *message, PyObject *filename, int lineno, PyObject *modu Issue a warning message with explicit control over all warning attributes. This is a straightforward wrapper around the Python function function cfunc: warnings.warn_explicit'; see there for more information. The *module* and *registry* arguments may be set to `NULL`` to get the default effect described there. .. versionadded:: 3.4 System Message: ERROR/3 (D:\onboarding-resources\sample-onb in\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 343) Unknown directive type "c:function". .. c:function:: int PyErr_WarnExplicit(PyObject *category, const char *message, const char *filename, int lineno, const char *medul Similar to :c:func:`PyErr_WarnExplicitObject` except that *message* and *module* are UTF-8 encoded strings, and *filename* is decoded from the :term:`filesystem encoding and error handler`. System Message: ERROR/3 (D:\onboarding-resources\sample-o in\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 350) Unknown directive type "c:function". .. c:function:: int PyErr_WarnFormat(PyObject *category, Py_ssize_t stack_level, const char *format, ...) Function similar to :c:func:`PyErr_WarnEx`, but use :c:func:`PyUnicode_FromFormat` to format the warning message. *format* is an ASCII-encoded string. .. versionadded:: 3.2 $System\,Message:\,ERROR/3\,(\text{D:}\coloreding-resources}) sample-onboarding-resources \\ \coloreding-resources \\ \coloreding-reso$ ain\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 359) Unknown directive type "c:function". .. c:function:: int PyErr_ResourceWarning(PyObject *source, Py_ssize_t stack_level, cost char *format, ...) Function similar to :c:func:`PyErr_WarnFormat`, but *category* is :exc:`ResourceWarning` and it passes *source* to :func:`warnings.WarningMessage`. .. versionadded:: 3.6 Querying the error indicator $System\,Message:\,ERROR/3\,(\text{D:}\coloreding-resources}) sample-onboarding-resources \verb|\coloreding-resources|| to the coloreding-resources | to the coloreding-resources|| to the coloredin$ ain\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 370) Unknown directive type "c:function". .. c:function:: PyObject* PyErr_Occurred() Test whether the error indicator is set. If set, return the exception *type* (the first argument to the last call to one of the :c:func:`PyErr Set*` functions or to :c:func:`PyErr Restore`). If not set, return ``NUIL'`. You own a reference to the return value, so you do not need to :c:func:`Py_DECREF The caller must hold the GIL. .. note:: Do not compare the return value to a specific exception; use :c:func:`PyErr ExceptionMatches` instead, shown below. (The comparison could easily fail since the exception may be an instance instead of a class, in the case of a class exception, or it may be a subclass of the expected exception.)

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] exceptions.rst, line 388)

Unknown directive type "c:function".

.. c:function:: int PyErr_ExceptionMatches(PyObject *exc)

Equivalent to ``PyErr_GivenExceptionMatches(PyErr_Occurred(), exc)``. This should only be called when an exception is actually set; a memory access violation will occur if no exception has been raised.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 395)

Unknown directive type "c:function".

.. c:function:: int PyErr_GivenExceptionMatches(PyObject *given, PyObject *exc)

Return true if the *given* exception matches the exception type in *exc*. If *exc* is a class object, this also returns true when *given* is an instance of a subclass. If *exc* is a tuple, all exception types in the tuple (and recursively in subtuples) are searched for a match.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 403)

Unknown directive type "c:function".

```
.. c:function:: void PyErr_Fetch(PyObject **ptype, PyObject **pvalue, PyObject **ptraceback
```

Retrieve the error indicator into three variables whose addresses are passed. If the error indicator is not set, set all three variables to ''NULL''. If it is set, it will be cleared and you own a reference to each object retrievel. The value and traceback object may be ''NULL'' even when the type object is not.

.. note::

This function is normally only used by code that needs to catch exceptions or by code that needs to save and restore the error indicator temporarily, e.g.:

```
{
    PyObject *type, *value, *traceback;
    PyErr_Fetch(&type, &value, &traceback);

    /* ... code that might produce other errors ... */
    PyErr_Restore(type, value, traceback);
}
```

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 425)

Unknown directive type "c:function".

```
.. c:function:: void PyErr_Restore(PyObject *type, PyObject *value, PyObject *traceback)
```

Set the error indicator from the three objects. If the error indicator is already set, it is cleared first. If the objects are ``NULL``, the error indicator is cleared. Do not pass a ``NULL`` type and non-``NULL`` value or traceback. The exception type should be a class. Do not pass an invalid exception type or value. (Violating these rules will cause subtle problems later.) This call takes away a reference to each object: you must own a reference to each object before the call and after the call you no longer own these references. (If you don't understand this, don't use this function. I warned you.)

.. note::

This function is normally only used by code that needs to save and restore the error indicator temporarily. Use :c:func:`PyErr_Fetch` to save the current error indicator.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 444)

Unknown directive type "c:function".

```
.. c:function:: void PyErr_NormalizeException(PyObject **exc, PyObject **val, PyObject **th
```

Under certain circumstances, the values returned by :c:func:`PyErr_Fetch` below can be "unnormalized", meaning that ``*exc`` is a class object but ``*val`` is not an instance of the same class. This function can be used to instantiate the class in that case. If the values are already normalized, nothing happens. The delayed normalization is implemented to improve performance.

.. note:

```
This function *does not* implicitly set the ``_traceback__``
attribute on the exception value. If setting the traceback
appropriately is desired, the following additional snippet is needed::

if (tb != NULL) {
    PyException_SetTraceback(val, tb);
}
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 463)

Unknown directive type "c:function".

```
.. c:function:: void PyErr GetExcInfo(PyObject **ptype, PyObject **pvalue, PyObject **ptraceback)
```

Retrieve the exception info, as known from ``sys.exc_info()``. This refers to an exception that was *already caught*, not to an exception that was freshly raised. Returns new references for the three objects, any of which may be ``NULL``. Does not modify the exception info state.

.. note::

This function is not normally used by code that wants to handle exceptions. Rather, it can be used when code needs to save and restore the exception state temporarily. Use :c:func:`PyErr_SetExcInfo` to restore or clear the exception state.

.. versionadded:: 3.3

Signal Handling

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\cpython-main\Doc\c-api\exceptions.rst. line 507)

```
main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 507)
Uhknown directive type "cfinction".
.. c:function:: int PyErr_CheckSignals()
.. index::
    module: signal
    single: SIGINT
    single: KeyboardInterrupt (built-in exception)

This function interacts with Python's signal handling.

If the function is called from the main thread and under the main Python interpreter, it checks whether a signal has been sent to the processes and if so, invokes the corresponding signal handler. If the :modi'signal' module is supported, this can invoke a signal handler written in Python.

The function attempts to handle all pending signals, and then returns `'0`'. However, if a Python signal handler raises an exception, the error indicator is set and the function returns ''-1'` immediately (such that other pending signals may not have been handled yet: they will be on the next :c:func: PyErr_CheckSignals()` invocation).

If the function is called from a non-main thread, or under a non-main Python interpreter, it does nothing and returns `'0`'.

This function can be called by long-running C code that wants to be interruptible by user requests (such as by pressing Ctrl-C).

.. note::
    The default Python signal handler for :const: `SIGINT` raises the :exc: `KeyboardInterrupt` exception.
```

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 538)

```
Unknown directive type "c:function".
```

```
.. c:function:: void PyErr_SetInterrupt()
.. index::
   module: signal
   single: SIGINT
   single: KeyboardInterrupt (built-in exception)

Simulate the effect of a :const:`SIGINT` signal arriving.
This is equivalent to ``PyErr_SetInterruptEx(SIGINT)``.
.. note::
   This function is async-signal-safe. It can be called without the :term:`GIL` and from a C signal handler.
```

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 553)

```
Unknown directive type "c:function".
```

```
.. c:function:: int PyErr_SetInterruptEx(int signum)

.. index::
    module: signal
    single: KeyboardInterrupt (built-in exception)

Simulate the effect of a signal arriving. The next time
    :c:func: PyErr_CheckSignals is called, the Python signal handler for
    the given signal number will be called.

This function can be called by C code that sets up its own signal handling
    and wants Python signal handlers to be invoked as expected when an
    interruption is requested (for example when the user presses Ctrl-C
    to interrupt an operation).

If the given signal isn't handled by Python (it was set to
    :data: signal.SIG_DFL' or :data: 'signal.SIG_IGN'), it will be ignored.

If *signum* is outside of the allowed range of signal numbers, `'-1'`
    is returned. Otherwise, `'0'` is returned. The error indicator is
    never changed by this function.

.. note::
    This function is async-signal-safe. It can be called without
    the :term: 'GIL' and from a C signal handler.

.. versionadded:: 3.10
```

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 582)

Unknown directive type "c:function".

.. c:function:: int PySignal_SetWakeupFd(int fd)

This utility function specifies a file descriptor to which the signal number is written as a single byte whenever a signal is received. *fd* must be non-blocking. It returns the previous such file descriptor.

The value ``-1`` disables the feature; this is the initial state. This is equivalent to :func: `signal.set_wakeup_fd` in Python, but without any error checking. *fd* should be a valid file descriptor. The function should only be called from the main thread.

.. versionchanged:: 3.5 On Windows, the function now also supports socket handles.

Exception Classes

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 600)

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_NewException(const char *name, PyObject *base, PyObject *dict)

This utility function creates and returns a new exception class. The *name* argument must be the name of the new exception, a C string of the form `module.classname``. The *base* and *dict* arguments are normally ``NULL``. This creates a class object derived from :exc:`Exception` (accessible in C as :c:data:`PyExc_Exception`).

The :attr:`_module__` attribute of the new class is set to the first part (up to the last dot) of the *name* argument, and the class name is set to the last part (after the last dot). The *base* argument can be used to specify alternate base classes; it can either be only one class or a tuple of classes. The *dict* argument can be used to specify a dictionary of class variables and methods.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 615)

Unknown directive type "c:function".

.. c:function:: PyObject* PyErr_NewExceptionWithDoc(const char *name, const char *doc, PyObject *base, PyObject *dict)

Same as :c:func:`PyErr_NewException`, except that the new exception class can easily be given a docstring: If d oc t is non-``NULL``, it will be used as the docstring for the exception class.

.. versionadded:: 3.2

Exception Objects

 $System Message: ERROR/3 (p:\onboarding-resources\ample-onboarding-resources\cpython-main\c-api\cpython-main\c] [coc] [c-api\cpython-rst, line 627)$

Unknown directive type "c:function".

.. c:function:: PyObject* PyException_GetTraceback(PyObject *ex)

Return the traceback associated with the exception as a new reference, as accessible from Python through :attr: $'_t$ traceback_'. If there is no traceback associated, this returns ``NULL``.

 $System \, Message: ERROR/3 \, (\texttt{D:\noboarding-resources} \ sample-onboarding-resources \ python-main\ [\texttt{Doc}] \, [\texttt{c-api}] \, exceptions.rst, \, line \, 634)$

Unknown directive type "c:function".

.. c:function:: int PyException_SetTraceback(PyObject *ex, PyObject *tb)

Set the traceback associated with the exception to *tb*. Use ``Py_None`` to clear it.

 $System \, Message: ERROR \it 3 \, (D:\noboarding-resources \sample-onboarding-resources \cpython \, main\coc-api\[cpython-main\] [Doc] [c-api\] exceptions.rst, line 640)$

Unknown directive type "c:function".

.. c:function:: PyObject* PyException GetContext(PyObject *ex)

Return the context (another exception instance during whose handling *ex* was raised) associated with the exception as a new reference, as accessible from Python through :attr:`_context_`. If there is no context associated, this returns ``NULL``.

 $System Message: ERROR/3 (p:\onboarding-resources\ample-onboarding-resources\cpython-main\c-api\cpython-main\c] [Coc] [c-api\cpython-rst, line 648)$

Unknown directive type "c:function".

.. c:function:: void PyException_SetContext(PyObject *ex, PyObject *ctx)

Set the context associated with the exception to *ctx*. Use ``NULL`` to clear it. There is no type check to make sure that *ctx* is an exception instance. This steals a reference to *ctx*.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 655)

Unknown directive type "c:function".

.. c:function:: PyObject* PyException_GetCause(PyObject *ex)

Return the cause (either an exception instance, or :const:`None`, set by ``raise ... from ...``) associated with the exception as a new reference, as accessible from Python through :attr:`_cause_`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 662)

Unknown directive type "c:function".

```
.. c:function:: void PyException_SetCause(PyObject *ex, PyObject *cause)
```

Set the cause associated with the exception to *cause*. Use ``NULL`` to clear it. There is no type check to make sure that *cause* is either an exception instance or :const:`None`. This steals a reference to *cause*.

:attr:`__suppress_context__` is implicitly set to ``True`` by this function.

Unicode Exception Objects

The following functions are used to create and modify Unicode exceptions from C.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 678)

Unknown directive type "c:function".

.. c:function:: PyObject* PyUnicodeDecodeError_Create(const char *encoding, const char *object, Py_ssize_t length, Py_ssize_t star

Create a :class:'UnicodeDecodeError' object with the attributes *encoding*, *object*, *length*, *start*, *end* and *reason*. *encoding* and *reason* are UTF-8 encoded strings.

 $System \, Message: ERROR/3 \, (\texttt{D:\cohboarding-resources} \ sample-onboarding-resources \ cpython-main\ [\texttt{Doc}] \, [\texttt{c-api}] \, exceptions.rst, line \, 684)$

Unknown directive type "c:function".

Return the *encoding* attribute of the given exception object.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 689)

Unknown directive type "c:function".

Return the *object* attribute of the given exception object.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 695)

Unknown directive type "c:function".

```
.. c:function:: int PyUnicodeDecodeError_GetStart(PyObject *exc, Py_ssize_t *start) int PyUnicodeErcodeError_GetStart(PyObject *exc, Py_ssize_t *start) int PyUnicodeTranslateError_GetStart(PyObject *exc, Py_ssize_t *start)
```

Get the *start* attribute of the given exception object and place it into $^*\$ *start*. *start* must not be ``NULL``. Return ``0`` on success, ``-1`` on failure.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 703)

Unknown directive type "c:function".

```
.. c:function:: int PyUnicodeDecodeError_SetStart(PyObject *exc, Py_ssize_t start) int PyUnicodeEncodeError_SetStart(PyObject *exc, Py_ssize_t start) int PyUnicodeTranslateError_SetStart(PyObject *exc, Py_ssize_t start)
```

Set the *start* attribute of the given exception object to *start*. Return ``0`` on success, ``-1`` on failure.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 710)

Unknown directive type "c:function".

```
.. c:function:: int PyUnicodeDecodeError_GetEnd(PyObject *exc, Py_ssize_t *end)
    int PyUnicodeEncodeError_GetEnd(PyObject *exc, Py_ssize_t *end)
    int PyUnicodeTranslateError_GetEnd(PyObject *exc, Py_ssize_t *end)
```

Get the *end* attribute of the given exception object and place it into **end*. *end* must not be ``NULL``. Return ``0`` on success, ``-1`` or failure.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] exceptions.rst, line 718)

Unknown directive type "c:function".

Set the *end* attribute of the given exception object to *end*. Return ``0`` on success, ``-1`` on failure.

 $System \, Message: ERROR/3 \, (p:\onboarding-resources\ample-onboarding-resources\cpython-main\c-api\cpython-main\c] \, [c-api\cpython-s.rst, line 725)$

Unknown directive type "c:function".

Return the *reason* attribute of the given exception object.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] exceptions.rst, line 731)

Unknown directive type "c:function".

.. c:function:: int PyUnicodeDecodeError_SetReason(PyObject *exc, const char *reason) int PyUnicodeEncodeError_SetReason(PyObject *exc, const char *reason) int PyUnicodeTranslateError_SetReason(PyObject *exc, const char *reason)

Set the *reason* attribute of the given exception object to *reason*. Return ``O`` on success, ``-1`` on failure.

Recursion Control

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] exceptions.rst, line 744); backlink

Unknown interpreted text role "ref".

 $System Message: ERROR/3 (p:\onboarding-resources\ample-onboarding-resources\cpython-main\c-api\[content][cont$

Unknown directive type "c:function".

```
.. c:function:: int Py_EnterRecursiveCall(const char *where)
```

Marks a point where a recursive C-level call is about to be performed.

If :const:`USE_STACKCHECK` is defined, this function checks if the OS stack overflowed using :c:func:`PyOS_CheckStack`. In this is the case, it sets a :exc:`MemoryError` and returns a nonzero value.

The function then checks if the recursion limit is reached. If this is the case, a :exc:`RecursionError` is set and a nonzero value is returned. Otherwise, zero is returned.

where should be a UTF-8 encoded string such as ``" in instance check"`` to be concatenated to the <code>:exc:</code> RecursionError` message caused by the recursion depth limit.

```
.. versionchanged:: 3.9

This function is now also available in the limited API.
```

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 770)

Unknown directive type "c:function".

```
.. c:function:: void Py_LeaveRecursiveCall(void)
```

Ends a :c:func:`Py_EnterRecursiveCall`. Must be called once for each *successful* invocation of :c:func:`Py_EnterRecursiveCall`.

```
.. versionchanged:: 3.9
   This function is now also available in the limited API.
```

Properly implementing comember; ~PyTypeObject.tp_repr' for container types requires special recursion handling. In addition to protecting the stack, comember; ~PyTypeObject.tp_repr' also needs to track objects to prevent cycles. The following two functions facilitate this functionality. Effectively, these are the C equivalent to fine; reprilb_recursive_repr'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 778); backlink

Unknown interpreted text role "c:member".

 $System \, Message: ERROR/3 \, (D: \onboarding-resources \sample-onboarding-resources \cpython-main\cocolor-api\cpython-ma$

Unknown interpreted text role "c:member".

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api] exceptions.rst, line 778); backlink

Unknown interpreted text role "func".

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 784)

Unknown directive type "c:function".

```
.. c:function:: int Py_ReprEnter(PyObject *object)
```

Called at the beginning of the :c:member:`~PyTypeObject.tp_repr` implementation to detect cycles.

If the object has already been processed, the function returns a positive integer. In that case the :c:member:`~PyTypeObject.tp_repr` implementation should return a string object indicating a cycle. As examples, :class:'dict' objects return ``{...}`` and :class:'list' objects return ``[...]``.

The function will return a negative integer if the recursion limit is reached. In that case the :c:member: ~PyTypeObject.tp_repr` implementation should typically return ``NULL``.

Otherwise, the function returns zero and the :c:member:`~PyTypeObject.tp_repr` implementation can continue normally.

System Message: ERROR/3 (p:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 802)

Unknown directive type "c:function".

```
.. c:function:: void Py_ReprLeave(PyObject *object)
```

Ends a :c:func: $Py_ReprEnter$. Must be called once for each invocation of :c:func: $Py_ReprEnter$ that returns zero.

Standard Exceptions

All standard Python exceptions are available as global variables whose names are PyExc_ followed by the Python exception name. These have the type :c.type: 'PyObject*'; they are all class objects. For completeness, here are all the variables:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 813); backlink Unknown interpreted text role "c:type".

 $System\,Message:\,ERROR/3\, (\texttt{D:} \verb|\contourding-resources| sample-onboarding-resources| cpython-ording-resources| contourding-resources| contources| contources|$ main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 818)

Unknown directive type "index".

```
windirective type "Index".

. index::
    single: PyExc BaseException
    single: PyExc Exception
    single: PyExc ArithmeticError
    single: PyExc ArithmeticError
    single: PyExc AssertionError
    single: PyExc AssertionError
    single: PyExc BlockingIOError
    single: PyExc BlockingIOError
    single: PyExc BufferError
    single: PyExc ConnectionAbortedError
    single: PyExc ConnectionAbortedError
    single: PyExc ConnectionRefusedError
    single: PyExc ConnectionRefusedError
    single: PyExc ConnectionRefusedError
    single: PyExc EOFError
    single: PyExc FileExistsError
    single: PyExc FileExistsError
    single: PyExc FileExistsError
    single: PyExc FileExistsError
    single: PyExc IndexIngPointError
    single: PyExc IndexTror
    single: PyExc MeyboardInterrupt
    single: PyExc MeyboardInterrupt
    single: PyExc ModuleNotFoundError
    single: PyExc ModuleNotFoundError
    single: PyExc ModuleNotFoundError
    single: PyExc NotADIrectoryError
    single: PyExc NotADIrectoryError
    single: PyExc OverflowError
    single: PyExc OverflowError
    single: PyExc ProcessLookupError
    single: PyExc ProcessLookupError
    single: PyExc ReferenceError
    single: PyExc RuntimeError
    single: PyExc StopAsyncIteration
    single: PyExc TimeoutError
    single: PyExc ToucodeError
    single: PyExc UnicodeError
    single: PyExc ValueError
    single: PyExc UnicodeError
    single: PyExc ValueError
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    single: PyExc ValueError
```

| C Name | Python Name | Notes |
|---|---|-------|
| System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cython-main\Doc\-api\[cython-main\][Doc] [C-api]exceptions.rst, line 877); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doo\c-api\[cpython- main] [Doc] [c- api] exceptions.rst, line 877); backlink Unknown interpreted text role "exc". | (1) |
| System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\cpython- main\Doc\o-api\[cpython-main] [Doc] [c-api]=xceptions.rst, line 879); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\poc\c-api\cpython- main\coc\c-api\exceptions.rst, line 879); backlink Unknown interpreted text role "exc". | (1) |

| | Python Name 'exe:' ArithmeticError' | |
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| System Message: ERROR/3 (b:\onboarding-resources\sample- onboarding-resources\cpython- main\Doc\c-api\(cpython-main\)[Doc] [c-api] exceptions.rst, line 881); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (p:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main] [Doc] [c- api] exceptions.rst, line 881); backlink Unknown interpreted text role "exc". | (1) |
| | :exc:`AssertionError` | |
| System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\cpython- main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 883); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main] [Doc] [c- api] exceptions.rst, line 883); backlink Unknown interpreted text role "exc". | |
| rc:data: 'PyExc AttributeError' | :exc:`AttributeError` | |
| System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\cpython- main\Doc\c-api\[cpython-main\][Doc] [c-api\[exceptions.rst, line 885); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main][Doc\][c- api] exceptions.rst, line 885); backlink Unknown interpreted text role "exc". | |
| ccdata: PyExc BlockingIOError` | exe: BlockingIOError' System Message: ERROR/3 | |
| System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\cpython- main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 887); backlink Unknown interpreted text role "cxdata". | (b:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main][Doc][c- api]exceptions.rst, line 887); backlink Unknown interpreted text role "exc". | |
| :c:data: PyExc BrokenPipeError | :exc:`BrokenPipeError` | |
| System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\cpython- main\Doc\c-api\[cpython-main\][Doc] [c-api\]exceptions.rst, line 889); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main] [Doc] [c- api] exceptions.rst, line 889); backlink Unknown interpreted text role "exc". | |
| exdata: PyExc BufferError | exc.'BufferError' | |
| System Message: ERROR/3 (b:\onboarding-resources\sample- onboarding-resources\cpython- main\Doc\c-api\(cpython-main\)[Doc] [c-api]exceptions.rst, line 891); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (p:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main] [Doc] [c- api] exceptions.rst, line 891); backlink Unknown interpreted text role | |

| | Python Name Note :exc:`ChildProcessError` | |
|--|---|--|
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| backlink | api]exceptions.rst, line | |
| Unknown interpreted text role "c:data". | 893); backlink | |
| | Unknown interpreted text role | |
| | "exc". | |
| | :exc:`ConnectionAbortedError` | |
| e:data: PyExc_ConnectionAbortedError | System Message: ERROR/3 | |
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| | :exc:'ConnectionError' | |
| e:data:'PyExc_ConnectionError' | System Message: ERROR/3 | |
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| [c-api]exceptions.rst, line 897); | main] [Doc] [c- | |
| backlink | api]exceptions.rst, line 897); backlink | |
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| | "exc". | |
| c:data: 'PyExc ConnectionRefusedError' | :exc:`ConnectionRefusedError` | |
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| [c-api] exceptions.rst, line 899); | main\Doc\c-api\[cpython- | |
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| Unknown interpreted text role "c:data". | 899); backlink | |
| 1 | Unknown interpreted text role | |
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| LONG CONTRACTOR | :exc: 'ConnectionResetError' | |
| exdata: 'PyExc_ConnectionResetError' | System Message: ERROR/3 (D:\onboarding- | |
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| onboarding-resources\cpython- main\Doc\c-api\[cpython-main][Doc] | resources\cpython- main\Doc\c-api\[cpython- | |
| [c-api] exceptions.rst, line 901); | main (Doc) [c- | |
| backlink | api]exceptions.rst, line | |
| Unknown interpreted text role "c:data". | 901); backlink | |
| • | Unknown interpreted text role "exc". | |
| | :exc:`EOFError` | |
| exdata: 'PyExc_EOFError' | | |
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| (D:\onboarding-resources\sample- onboarding-resources\cpython- | main] [Doc] [c- | |
| (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 903); backlink | | |
| (D:\onboarding-resources\sample- onboarding-resources\cpython- main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 903); | main] [Doc] [c- api]exceptions.rst, line | |

| | | :exc:`FileExistsError` | |
|---------|---|--|--|
| exdata: | PyExc_FileExistsError` System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\cpython- main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 905); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main] [Doc] [c- api]exceptions.rst, line 905); backlink Unknown interpreted text role "exc". | |
| e:data: | PyExc_FileNotFoundError` System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main Doc\c-api\([cpython-main][Doc][c-api]exceptions.rst, line 907); backlink Unknown interpreted text role "cxdata". | xxc: FileNotFoundError System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main] [Doc] [c- api] exceptions.rst, line 907); backlink Unknown interpreted text role "exc". xxc: FloatingPointError | |
| e:data: | PyExc_FloatingPointError' System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\cpython- main Doc\c-api\([cpython-main][Doc][c-api]exceptions.rst, line 909); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (p:\onboarding- resources\sample- onboarding- resources\cpython- main Doc\c-api Cpython- main] [Doc] [c- api exceptions.rst, line 909); backlink Unknown interpreted text role "exc". | |
| c:data: | PyExc_GeneratorExit System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 911); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main] [Doc] [c- api] exceptions.rst, line 911); backlink Unknown interpreted text role "exc". | |
| | Defer to other | exc:'ImportError' | |
| | PyExc_ImportError' System Message: ERROR/3 (0:\onboarding-resources\sample-onboarding-resources\cpython-main Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 913); backlink Unknown interpreted text role "cxlata". | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main] [Doc] [c- api] exceptions.rst, line 913); backlink Unknown interpreted text role "exc". | |
| c:data: | PyExc_IndentationError` System Message: ERROR/3 (b:\onboarding-resources\sample- onboarding-resources\cpython- main Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 915); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main Doc\c-api\[cpython- main] [Doc] [c- api]exceptions.rst, line 915); backlink Unknown interpreted text role "exc". | |

| C Name | Python Name Notes |
|--|--|
| | :exc:`IndexError` |
| c:data:'PyExc IndexError' | System Message: ERROR/3 |
| · - | (D:\onboarding- |
| System Message: ERROR/3 | resources\sample- |
| (D:\onboarding-resources\sample- onboarding-resources\cpython- | onboarding- resources\cpython- |
| main\Doc\c-api\[cpython-main][Doc] | main\Doc\c-api\[cpython- |
| [c-api]exceptions.rst, line 917); | main][Doc][c- |
| backlink | api]exceptions.rst, line 917); backlink |
| Unknown interpreted text role "c:data". | Unknown interpreted text role |
| | "exc". |
| | exe: InterruptedError` |
| c:data:'PyExc_InterruptedError' | System Message: ERROR/3 |
| C . M Eppopa | (D:\onboarding- |
| System Message: ERROR/3 (D:\onboarding-resources\sample- | resources\sample- onboarding- |
| onboarding-resources\cpython- | resources\cpython- |
| main\Doc\c-api\[cpython-main][Doc] | main\Doc\c-api\[cpython- |
| [c-api]exceptions.rst, line 919); backlink | main] [Doc] [c- api]exceptions.rst, line |
| Unknown interpreted text role "c:data". | 919); backlink |
| опклюми вветрием еха гове схвава. | Unknown interpreted text role |
| | "exc". |
| | :exe:'IsADirectoryError' |
| c:data:`PyExc_IsADirectoryError` | System Message: ERROR/3 |
| System Message: ERROR/3 | (D:\onboarding- resources\sample- |
| (D:\onboarding-resources\sample- | onboarding- |
| onboarding-resources\cpython- | resources\cpython- |
| <pre>main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 921);</pre> | main\Doc\c-api\[cpython- main][Doc][c- |
| backlink | api]exceptions.rst, line |
| Unknown interpreted text role "c:data". | 921); backlink |
| | Unknown interpreted text role "exc". |
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| | :exc:'KeyError' |
| ccdata: 'PyExc_KeyError' | |
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| System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\cpython- main\Doo\c-api\[cpython-main][Doo] [c-api]exceptions.rst, line 923); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main Doc\o-api\[cpython- main][Doc][c- api]exceptions.rst, line 923); backlink Unknown interpreted text role "exc". Exec: KeyboardInterrupt' System Message: ERROR/3 (D:\onboarding- |
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| System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\python- main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 923); backlink Unknown interpreted text role "cxdata". System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\cpython- main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 925); backlink Unknown interpreted text role "cxdata". System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\sample- onboarding-resources\sample- onboarding-resources\sample- onboarding-resources\sample- onboarding-resources\cpython- main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 927); backlink | System Message: ERROR/3 (D:\onboarding- resources\capthon- main\Doc\c-api\[cpython- main\Doc\c-api\[cpython- main\]Doc\left 23); backlink Unknown interpreted text role "exc". System Message: ERROR/3 (D:\onboarding- resources\capthon- main\Doc\c-api\[cpython- main\] |
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| | Python Name Notes | |
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| | :exc:'MemoryError' | |
| ::data:`PyExc_MemoryError` | System Message: ERROR/3 (D:\onboarding- | |
| System Message: ERROR/3 | resources\sample- | |
| (D:\onboarding-resources\sample- onboarding-resources\cpython- | onboarding- resources\cpython- | |
| <pre>main\Doc\c-api\[cpython-main][Doc]</pre> | main\Doc\c-api\[cpython- | |
| [c-api]exceptions.rst, line 929); backlink | main] [Doc] [c- api] exceptions.rst, line | |
| Unknown interpreted text role "c:data". | 929); backlink | |
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| | "exc". | |
| | :exe: 'ModuleNotFoundError' | |
| xdata: 'PyExc_ModuleNotFoundError' | System Message: ERROR/3 (D:\onboarding- | |
| System Message: ERROR/3 | resources\sample- | |
| (D:\onboarding-resources\sample- | onboarding- | |
| <pre>onboarding-resources\cpython- main\Doc\c-api\[cpython-main][Doc]</pre> | resources\cpython- main\Doc\c-api\[cpython- | |
| [c-api]exceptions.rst, line 931); | main][Doc][c- | |
| backlink Unknown interpreted text role "c:data". | api]exceptions.rst, line 931); backlink | |
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| | "exc". | |
| | :exc:`NameError` | |
| xdata:'PyExc_NameError' | System Message: ERROR/3 (D:\onboarding- | |
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| [c-api]exceptions.rst, line 933); | main][Doc][c- | |
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| | "exc". | |
| | :exc:'NotADirectoryError' | |
| :data:`PyExc_NotADirectoryError` | System Message: ERROR/3 | |
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| onboarding-resources\cpython- | resources\cpython- | |
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| backlink | api]exceptions.rst, line | |
| Unknown interpreted text role "c:data". | 935); backlink Unknown interpreted text role | |
| | "exc". | |
| | | |
| | exc: 'NotImplementedError' | |
| xdata: 'PyExc_NotImplementedError' | xxx: NotImplementedError` System Message: ERROR/3 (D: \onboarding- | |
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| C Name | Python Name | Notes |
|--|---|-------|
| | :exc:`OverflowError` | |
| :c:data:`PyExc_OverflowError` | System Message: ERROR/3 | |
| System Message: ERROR/3 | (D:\onboarding- | |
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| <pre>main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 941);</pre> | <pre>main\Doc\c-api\[cpython- main][Doc][c-</pre> | |
| backlink | api]exceptions.rst, line | |
| Unknown interpreted text role "c:data". | 941); backlink | |
| | Unknown interpreted text role "exc". | |
| | :exc: 'PermissionError' | |
| :c:data:`PyExc_PermissionError` | System Message: ERROR/3 | |
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| (D:\onboarding-resources\sample- | onboarding- | |
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| <pre>main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 943);</pre> | <pre>main\Doc\c-api\[cpython- main][Doc][c-</pre> | |
| backlink | api]exceptions.rst, line | |
| Unknown interpreted text role "c:data". | 943); backlink | |
| | Unknown interpreted text role "exc". | |
| | :exc:'ProcessLookupError' | |
| :c:data:`PyExc_ProcessLookupError` | System Message: ERROR/3 | |
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| backlink | api]exceptions.rst, line | |
| Unknown interpreted text role "c:data". | 945); backlink | |
| | Unknown interpreted text role "exc". | |
| | :exc:'RecursionError' | |
| :c:data:`PyExc_RecursionError` | System Message: ERROR/3 | |
| System Message: ERROR/3 | (D:\onboarding- resources\sample- | |
| (D:\onboarding-resources\sample- | onboarding- | |
| <pre>onboarding-resources\cpython- main\Doc\c-api\[cpython-main] [Doc]</pre> | resources\cpython- | |
| [c-api] exceptions.rst, line 947); | <pre>main\Doc\c-api\[cpython- main][Doc][c-</pre> | |
| backlink | api]exceptions.rst, line | |
| Unknown interpreted text role "c:data". | 947); backlink | |
| | Unknown interpreted text role "exc". | |
| | :exc:`ReferenceError` | |
| :c:data:`PyExc_ReferenceError` | System Message: ERROR/3 | |
| System Message: ERROR/3 | (D:\onboarding- resources\sample- | |
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| [c-api]exceptions.rst, line 949); | main (Doc\c-api\[cpython- main][Doc][c- | ' |
| backlink | api]exceptions.rst, line | |
| Unknown interpreted text role "c:data". | 949); backlink Unknown interpreted text role | |
| | "exc". | |
| 14 'NF N 4' F ' | exc: 'RuntimeError' | |
| :exdata:'PyExc_RuntimeError' | System Message: ERROR/3 (D:\onboarding- | |
| System Message: ERROR/3 | (D:\onboarding- resources\sample- | |
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| <pre>main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 951);</pre> | | |
| [c-api]exceptions.rst, line 951); backlink | api]exceptions.rst, line | |
| <pre>[c-api]exceptions.rst, line 951);</pre> | api]exceptions.rst, line 951); backlink Unknown interpreted text role | |

| | me | Python Name 1 :exc:`StopAsyncIteration` | Notes |
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| cidata | x'PyExc_StopAsyncIteration' System Message: ERROR/3 (D:\onboarding-resources\sample- | System Message: ERROR/3 (D:\onboarding- resources\sample- | |
| | onboarding-resources(cpython-main)Doc(c-api)(cpython-main)[Doc] [c-api]exceptions.rst, line 953); | onboarding- resources\cpython- main\Doc\c-api\[cpython- | |
| | backlink Unknown interpreted text role "c:data". | main] [Doc] [c- api] exceptions.rst, line 953); backlink | |
| - | | Unknown interpreted text role "exe". | |
| ·c·data | n:'PyExc StopIteration' | :exc: StopIteration | |
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| | backlink | api]exceptions.rst, line | |
| | Unknown interpreted text role "c:data". | 955); backlink | |
| L | - | Unknown interpreted text role "exc". | |
| | | :exc:`SyntaxError` | |
| :c:data | n: PyExc_SyntaxError` | System Message: ERROR/3 (D:\onboarding- | |
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| | Unknown interpreted text role "c:data". | 957); backlink | |
| 1 | | Unknown interpreted text role "exc". | |
| | | | |
| | | :exc:`SystemError` | |
| :c:data | n'PyExc_SystemError` | System Message: ERROR/3 | |
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| | Python Name :exc: 'TimeoutError' | Notes |
|---|---|-------|
| | :exc: 1 imeoutilitor | |
| System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\cpython- main\Doc\c-api\[cpython-main][Doc] | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- | |
| [c-api]exceptions.rst, line 965); backlink Unknown interpreted text role "cxdata". | main] [Doc] [c- api] exceptions.rst, line 965); backlink Unknown interpreted text role "exc". | |
| ordete/DeFree TransFree/ | :exc:"TypeError" | |
| System Message: ERROR/3 (b:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main\] [Doc\] [c-api\] exceptions.rst, line 967); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main\] [Doc] [c- api] exceptions.rst, line 967); backlink Unknown interpreted text role "exc". | |
| | :exc:`UnboundLocalError` | |
| System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\copython- main\Doc\c-api\[cpython-main\][Doc] [c-api] exceptions.rst, line 969); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (b:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main][Doc][c- api]exceptions.rst, line 969); backlink Unknown interpreted text role "exc". | |
| | :exe:`UnicodeDecodeError` | |
| System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\o-api\[cpython-main][Doc][c-api]exceptions.rst, line 971); backlink Unknown interpreted text role "cxdata". | System Message: ERROR/3 (p:\onboarding- resources\sample- onboarding- resources\cpython- main\poc\c-api cpython- main] [Doc] [c- api] exceptions.rst, line 971); backlink Unknown interpreted text role "exe". | |
| | :exc:`UnicodeEncodeError` | |
| System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\copython-main\Doc\c-api\[copython-main] [Doc] [c-api]exceptions.rst, line 973); backlink Unknown interpreted text role "exdata". | System Message: ERROR/3 (D:\onboarding- resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main] [Doc] [c- api] exceptions .rst, line 973); backlink Unknown interpreted text role "exe". | |
| | :exc:`UnicodeError` | |
| c:data:`PyExc_UnicodeError` | System Message: ERROR/3 (D:\onboarding- | |
| System Message: ERROR/3 (D:\onboarding-resources\sample- onboarding-resources\cpython- main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 975); backlink Unknown interpreted text role "cdata". | resources\sample- onboarding- resources\cpython- main\Doc\c-api\[cpython- main] [Doc] [c- api] exceptions.rst, line 975); backlink | |

C Name Python Name Notes :exc:`UnicodeTranslateError` :c:data:`PvExc UnicodeTranslateError` System Message: ERROR/3 (D:\onboarding System Message: ERROR/3 resources\sampleonboarding-(D:\onboarding-resources\sample resources\cpyth onboarding-resources\cpython main\Doc\c-api\[cpython-main][Doc] main\Doc\c-api\[cpython-[c-api]exceptions.rst, line 977); main] [Doc] [chacklink apilexceptions.rst, line 977); backlink Unknown interpreted text role "c:data". Unknown interpreted text role "exc". exc: ValueError :c:data:`PyExc ValueError System Message: ERROR/3 (D:\onboarding-System Message: ERROR/3 resources\sampleonboarding-(D:\onboarding-resources\sample onboarding-resources\cpythonresources\cpython main\Doc\c-api\[cpython-main][Doc] main\Doc\c-api\[cpython-[c-api]exceptions.rst, line 979); main] [Doc] [c**backlink** 979); backlink Unknown interpreted text role "c:data". Unknown interpreted text role "exc". exc: ZeroDivisionError :c:data:'PyExc ZeroDivisionError' System Message: ERROR/3 (D:\onboarding-System Message: ERROR/3 resources\sample arding-resou onboarding-resources\cpythonresources\cpythonmain\Doc\c-api\[cpython-main][Doc] main\Doc\c-api\[cpython-[c-api]exceptions.rst, line 981); main] [Doc] [c**backlink** apilexceptions.rst.line 981); backlink Unknown interpreted text role "c:data". Unknown interpreted text role "exc". System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-

in\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 983)

Unknown directive type "versionadded".

```
versionadded:: 3.3
:c:data: PyExc_BlockingIOError', :c:data: PyExc_BrokenPipeError',
:c:data: PyExc_ChildProcessError', :c:data: PyExc_ConnectionError',
:c:data: PyExc_ConnectionAbortedError', :c:data: PyExc_ConnectionRefusedError',
:c:data: PyExc_ConnectionResetError', :c:data: PyExc_FileExistsError',
:c:data: PyExc_FileNotFoundError', :c:data: PyExc_InterruptedError',
:c:data: PyExc_IsADirectoryError', :c:data: PyExc_NotADirectoryError',
:c:data: PyExc_PermissionError', :c:data: PyExc_NotADirectoryError'
and :c:data: PyExc_TimeoutError' were introduced following :pep:'3151'.
```

 $System\,Message:\,ERROR/3\,(\text{D:}\comboarding-resources}\comboarding-resources)$ main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 993)

Unknown directive type "versionadded".

 $System\,Message:\,ERROR/3\,(\texttt{D:}\label{eq:decomposition}) and in g-resources \verb|\colored| conboarding-resources | conboarding-resourc$ ain\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 996)

Unknown directive type "versionadded".

```
.. versionadded:: 3.6
  :c:data:`PyExc_ModuleNotFoundError`.
```

These are compatibility aliases to :c:data:'PyExc_OSError':

 $System\,Message:\,ERROR/3\,(\text{D:}\colored ing-resources}) ample-onboarding-resources) courses a constant of the colored independent of the colored independen$.n\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 999); backlink

Unknown interpreted text role "c:data".

 $System\,Message:\,ERROR/3\, (\texttt{D:} \verb|\conting-resources| sample-onboarding-resources| cpython-onboarding-resources| conting-resources| conting-reso$ ain\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 1001)

Unknown directive type "index".

```
single: PyExc_EnvironmentError
single: PyExc_IOError
single: PyExc_WindowsError
```

C Name Notes :c:data:`PyExc EnvironmentError System Message: ERROR/3 (D:\onboarding-resources\sampleources\cpython \c-api\[cpythor [c-api]exceptions.rst, line 1010); backlink Unknown interpreted text role "c:data".

```
C Name

xdata: PyExc_IOError

System Message: ERROR/3 (D:\onboarding-resources\sample-
onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc]
[c-api]exceptions.rst, line 1012); backlink

Unknown interpreted text role "cxdata".

xxdata: PyExc_WindowsError

System Message: ERROR/3 (D:\onboarding-resources\sample-
onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc]
[c-api]exceptions.rst, line 1014); backlink

Unknown interpreted text role "cxdata".
```

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 1016)

Unknown directive type "versionchanged".

.. versionchanged:: 3.3

These aliases used to be separate exception types.
```

Notes:

- This is a base class for other standard exceptions.
- Only defined on Windows; protect code that uses this by testing that the preprocessor macro MS_WINDOWS is defined.

Standard Warning Categories

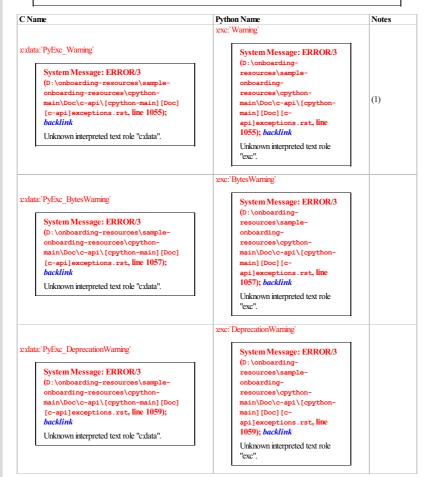
All standard Python warning categories are available as global variables whose names are <code>PyExc_</code> followed by the Python exception name. These have the type <code>c.type:PyObject*</code>; they are all class objects. For completeness, here are all the variables:

```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main][Doc][c-api]exceptions.rst, line 1033); backlink
Unknown interpreted text role "ctype".
```

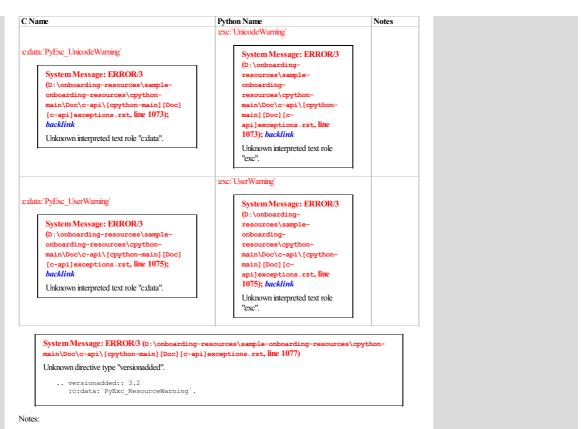
```
System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\c-api\[cpython-main] [Doc] [c-api]exceptions.rst, line 1038)

Unknown directive type "index".

.. index::
    single: PyExc Warning
    single: PyExc BytesWarning
    single: PyExc DeprecationWarning
    single: PyExc ImportWarning
    single: PyExc ImportWarning
    single: PyExc PendingDeprecationWarning
    single: PyExc PendingDeprecationWarning
    single: PyExc ResourceWarning
    single: PyExc ResourceWarning
    single: PyExc SyntaxWarning
    single: PyExc UnicodeWarning
    single: PyExc UnicodeWarning
    single: PyExc UnicodeWarning
    single: PyExc UnicodeWarning
    single: PyExc UnicodeWarning
```



| C Name | Python Name Notes 'exc:'FutureWarning' |
|---|--|
| c:data:'PyExc FutureWarning' | System Message: ERROR/3 |
| | (D:\onboarding- |
| System Message: ERROR/3 (D:\onboarding-resources\sample- | resources\sample- onboarding- |
| onboarding-resources\cpython- | resources\cpython- |
| <pre>main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 1061);</pre> | main\Doc\c-api\[cpython- main][Doc][c- |
| backlink | api]exceptions.rst, line |
| Unknown interpreted text role "c:data". | 1061); backlink |
| <u></u> | Unknown interpreted text role "exc". |
| | :exc: ImportWarning |
| cc:data: 'PyExc_ImportWarning' | System Message: ERROR/3 |
| System Message: ERROR/3 | (D:\onboarding- resources\sample- |
| (D:\onboarding-resources\sample- | onboarding- |
| onboarding-resources\cpython- | resources\cpython- |
| <pre>main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 1063);</pre> | main\Doc\c-api\[cpython- main][Doc][c- |
| backlink | api]exceptions.rst, line |
| Unknown interpreted text role "c:data". | 1063); backlink |
| | Unknown interpreted text role "exc". |
| | :exc:`PendingDeprecationWarning` |
| exdata: 'PyExc_PendingDeprecationWarning' | System Message: ERROR/3 (D:\onboarding- |
| System Message: ERROR/3 | resources\sample- |
| (D:\onboarding-resources\sample- | onboarding- |
| <pre>onboarding-resources\cpython- main\Doc\c-api\[cpython-main][Doc]</pre> | resources\cpython- main\Doc\c-api\[cpython- |
| [c-api]exceptions.rst, line 1065); | main][Doc][c- |
| backlink | api]exceptions.rst, line 1065); backlink |
| Unknown interpreted text role "c:data". | Unknown interpreted text role |
| | "exc". |
| | :exc:'ResourceWarning' |
| ccdata: PyExc_ResourceWarning | System Message: ERROR/3 |
| System Message: ERROR/3 | (D:\onboarding- resources\sample- |
| (D:\onboarding-resources\sample- | onboarding- |
| onboarding-resources\cpython- | resources\cpython- |
| <pre>main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 1067);</pre> | main\Doc\c-api\[cpython- main][Doc][c- |
| backlink | api]exceptions.rst, line |
| Unknown interpreted text role "c:data". | 1067); backlink |
| | Unknown interpreted text role "exc". |
| | :exc:`RuntimeWarning` |
| ccdata: 'PyExc_RuntimeWarning' | System Message: ERROR/3 |
| G | (D:\onboarding- |
| System Message: ERROR/3 (D:\onboarding-resources\sample- | resources\sample- onboarding- |
| onboarding-resources\cpython- | resources\cpython- |
| <pre>main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 1069);</pre> | main\Doc\c-api\[cpython- main][Doc][c- |
| [c-api]exceptions.rst, line 1009); backlink | api]exceptions.rst, line |
| Unknown interpreted text role "c:data". | 1069); backlink |
| <u> </u> | Unknown interpreted text role "exc". |
| | exc: SyntaxWarning` |
| ccdata: 'PyExc_SyntaxWarning' | System Message: ERROR/3 |
| G | (D:\onboarding- |
| System Message: ERROR/3 (D:\onboarding-resources\sample- | resources\sample- onboarding- |
| onboarding-resources\sample- | resources\cpython- |
| | main\Doc\c-api\[cpython- |
| main\Doc\c-api\[cpython-main][Doc] | main] [Doc] [c- api]exceptions.rst, line |
| <pre>main\Doc\c-api\[cpython-main][Doc] [c-api]exceptions.rst, line 1071); backlink</pre> | |
| <pre>[c-api]exceptions.rst, line 1071);</pre> | 1071); backlink |
| [c-api]exceptions.rst, line 1071); backlink | 1071); backlink Unknown interpreted text role "exc". |



1. This is a base class for other standard warning categories.