:mod:`sys` --- System-specific parameters and functions

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]sys.rst, line 1); backlink

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 4)

Unknown directive type "module".

```
.. module:: sys
    :synopsis: Access system-specific parameters and functions.
```

This module provides access to some variables used or maintained by the interpreter and to functions that interact strongly with the interpreter. It is always available.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 14)

Unknown directive type "data".

```
.. data:: abiflags
```

On POSIX systems where Python was built with the standard ``configure`` script, this contains the ABI flags as specified by :pep:`3149`.

- .. versionchanged:: 3.8
 Default flags became an empty string (``m`` flag for pymalloc has been
 removed).
- .. versionadded:: 3.2

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 26)

Unknown directive type "function".

.. function:: addaudithook(hook)

Append the callable *hook* to the list of active auditing hooks for the current (sub)interpreter.

When an auditing event is raised through the :func:`sys.audit` function, each hook will be called in the order it was added with the event name and the tuple of arguments. Native hooks added by :c:func:`PySys_AddAuditHook` are called first, followed by hooks added in the current (sub)interpreter. Hooks can then log the event, raise an exception to abort the operation, or terminate the process entirely.

.. audit-event:: sys.addaudithook "" sys.addaudithook

Calling :func:`sys.addaudithook` will itself raise an auditing event named ``sys.addaudithook`` with no arguments. If any existing hooks raise an exception derived from :class:`RuntimeError`, the new hook will not be added and the exception suppressed. As a result, callers cannot assume that their hook has been added unless they control all existing hooks.

See the :ref:`audit events table <audit-events>` for all events raised by CPython, and :pep:`578` for the original design discussion.

- .. versionadded:: 3.8
- .. versionchanged:: 3.8.1

Exceptions derived from :class:`Exception` but not :class:`RuntimeError` are no longer suppressed.

.. impl-detail::

When tracing is enabled (see :func:`settrace`), Python hooks are only traced if the callable has a ``_cantrace__`` member that is set to a true value. Otherwise, trace functions will skip the hook.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 64)

Unknown directive type "data".

.. data:: argv

The list of command line arguments passed to a Python script. ``argv[0]`` is the script name (it is operating system dependent whether this is a full pathname or not). If the command was executed using the :option: -c command line option to the interpreter, ``argv[0]`` is set to the string ``'-c'``. If no script name was passed to the Python interpreter, ``argv[0]`` is the empty string.

To loop over the standard input, or the list of files given on the command line, see the :mod:`fileinput` module.

See also :data:`sys.orig argv`.

.. note::

On Unix, command line arguments are passed by bytes from OS. Python decodes them with filesystem encoding and "surrogateescape" error handler. When you need original bytes, you can get it by ``[os.fsencode(arg) for arg in sys.argv]``.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 86)

Unknown directive type "function".

.. function:: audit(event, *args)

.. index:: single: auditing

Raise an auditing event and trigger any active auditing hooks. *event* is a string identifying the event, and *args* may contain optional arguments with more information about the event. The number and types of arguments for a given event are considered a public and stable API and should not be modified between releases.

For example, one auditing event is named ``os.chdir``. This event has one argument called *path* that will contain the requested new working directory.

:func:`sys.audit` will call the existing auditing hooks, passing the event name and arguments, and will re-raise the first exception from any hook. In general, if an exception is raised, it should not be handled and the process should be terminated as quickly as possible. This allows hook implementations to decide how to respond to particular events: they can merely log the event or abort the operation by raising an exception.

Hooks are added using the :func:`sys.addaudithook` or :c:func:`PySys AddAuditHook` functions.

The native equivalent of this function is :c:func:`PySys_Audit`. Using the native function is preferred when possible.

See the :ref:`audit events table <audit-events>` for all events raised by $\mathsf{CPython}$.

.. versionadded:: 3.8

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 120)

Unknown directive type "data".

```
.. data:: base_exec_prefix

Set during Python startup, before ``site.py`` is run, to the same value as
:data:`exec_prefix`. If not running in a
:ref: virtual environment <venv-def>`, the values will stay the same; if
``site.py`` finds that a virtual environment is in use, the values of
:data:`prefix` and :data:`exec_prefix` will be changed to point to the
virtual environment, whereas :data:`base_prefix` and
:data:`base_exec_prefix` will remain pointing to the base Python
installation (the one which the virtual environment was created from).
.. versionadded:: 3.3
```

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

Unknown directive type "data".

.. data:: base prefix

Set during Python startup, before ``site.py`` is run, to the same value as :data:`prefix`. If not running in a :ref:`virtual environment <venv-def>`, the values will stay the same; if ``site.py`` finds that a virtual environment is in use, the values of :data:`prefix` and :data:`exec_prefix` will be changed to point to the virtual environment, whereas :data:`base_prefix` and :data:`base_exec_prefix` will remain pointing to the base Python installation (the one which the virtual environment was created from).

.. versionadded:: 3.3

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]sys.rst, line 147)

Unknown directive type "data".

.. data:: byteorder

An indicator of the native byte order. This will have the value ``'big'`` on big-endian (most-significant byte first) platforms, and ``'little'`` on little-endian (least-significant byte first) platforms.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]sys.rst, line 154)

Unknown directive type "data".

.. data:: builtin module names

A tuple of strings containing the names of all modules that are compiled into this Python interpreter. (This information is not available in any other way --- ``modules.keys()`` only lists the imported modules.)

See also the :attr:`sys.stdlib_module_names` list.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 163)

Unknown directive type "function".

.. function:: call_tracing(func, args)

Call ``func(*args)``, while tracing is enabled. The tracing state is saved, and restored afterwards. This is intended to be called from a debugger from a checkpoint, to recursively debug some other code.

main\Doc\library\[cpython-main][Doc][library]sys.rst, line 170)

Unknown directive type "data".

.. data:: copyright

A string containing the copyright pertaining to the Python interpreter.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 175)

Unknown directive type "function".

.. function:: clear type cache()

Clear the internal type cache. The type cache is used to speed up attribute and method lookups. Use the function *only* to drop unnecessary references during reference leak debugging.

This function should be used for internal and specialized purposes only.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 184)

Unknown directive type "function".

.. function:: _current_frames()

Return a dictionary mapping each thread's identifier to the topmost stack frame currently active in that thread at the time the function is called. Note that functions in the :mod:`traceback` module can build the call stack given such a frame.

This is most useful for debugging deadlock: this function does not require the deadlocked threads' cooperation, and such threads' call stacks are frozen for as long as they remain deadlocked. The frame returned for a non-deadlocked thread may bear no relationship to that thread's current activity by the time calling code examines the frame.

This function should be used for internal and specialized purposes only.

.. audit-event:: sys._current_frames "" sys._current frames

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 201)

Unknown directive type "function".

.. function:: _current_exceptions()

Return a dictionary mapping each thread's identifier to the topmost exception currently active in that thread at the time the function is called. If a thread is not currently handling an exception, it is not included in the result dictionary.

This is most useful for statistical profiling.

This function should be used for internal and specialized purposes only.

.. audit-event:: $sys._current_exceptions$ "" $sys._current_exceptions$

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 214)

Unknown directive type "function".

.. function:: breakpointhook()

This hook function is called by built-in :func:`breakpoint`. By default, it drops you into the :mod:`pdb` debugger, but it can be set to any other function so that you can choose which debugger gets used.

The signature of this function is dependent on what it calls. For example, the default binding (e.g. ``pdb.set_trace()``) expects no arguments, but you might bind it to a function that expects additional arguments (positional and/or keyword). The built-in ``breakpoint()`` function passes its ``*args`` and ``**kws`` straight through. Whatever ``breakpointhooks()`` returns is returned from ``breakpoint()``.

The default implementation first consults the environment variable :envvar: `PYTHONBREAKPOINT`. If that is set to ``"O"`` then this function returns immediately; i.e. it is a no-op. If the environment variable is not set, or is set to the empty string, ``pdb.set_trace()`` is called. Otherwise this variable should name a function to run, using Python's dotted-import nomenclature, e.g. ``package.subpackage.module.function``. In this case, ``package.subpackage.module`` would be imported and the resulting module must have a callable named ``function()``. This is run, passing in ``*args`` and ``**kws``, and whatever ``function()`` returns, ``sys.breakpointhook()`` returns to the built-in :func:`breakpoint` function.

Note that if anything goes wrong while importing the callable named by :envvar:`PYTHONBREAKPOINT`, a :exc:`RuntimeWarning` is reported and the breakpoint is ignored.

Also note that if ``sys.breakpointhook()`` is overridden programmatically, :envvar: $\PYTHONBREAKPOINT`$ is *not* consulted.

.. versionadded:: 3.7

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 248)

Unknown directive type "function".

.. function:: debugmallocstats()

Print low-level information to stderr about the state of CPython's memory allocator.

If Python is `built in debug mode <debug-build>` (:option:`configure --with-pydebug option <--with-pydebug>`), it also performs some expensive internal consistency checks.

- .. versionadded:: 3.3
- .. impl-detail::

This function is specific to CPython. The exact output format is not defined here, and may change.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 265)

Unknown directive type "data".

.. data:: dllhandle

Integer specifying the handle of the Python DLL.

.. availability:: Windows.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 272)

Unknown directive type "function".

.. function:: displayhook(value)

If *value* is not ``None``, this function prints ``repr(value)`` to ``sys.stdout``, and saves *value* in ``builtins._``. If ``repr(value)`` is not encodable to ``sys.stdout.encoding`` with ``sys.stdout.errors`` error handler (which is probably ``'strict'``), encode it to ``sys.stdout.encoding`` with ``'backslashreplace'`` error handler.

``sys.displayhook`` is called on the result of evaluating an :term:`expression`

```
entered in an interactive Python session. The display of these values can be
customized by assigning another one-argument function to ``sys.displayhook``.
Pseudo-code::
    def displayhook(value):
        if value is None:
            return
        \# Set \hbox{\ensuremath{^{\prime}}}_{-}\hbox{\ensuremath{^{\prime}}} to None to avoid recursion
        builtins. = None
        text = repr(value)
        try:
            sys.stdout.write(text)
        except UnicodeEncodeError:
            bytes = text.encode(sys.stdout.encoding, 'backslashreplace')
            if hasattr(sys.stdout, 'buffer'):
                 sys.stdout.buffer.write(bytes)
                 text = bytes.decode(sys.stdout.encoding, 'strict')
                 sys.stdout.write(text)
        sys.stdout.write("\n")
        builtins._ = value
.. versionchanged:: 3.2
   Use ``'backslashreplace'`` error handler on :exc:`UnicodeEncodeError`.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 308)

Unknown directive type "data".

```
.. data:: dont_write_bytecode

If this is true, Python won't try to write ``.pyc`` files on the import of source modules. This value is initially set to ``True`` or ``False`` depending on the :option: `-B` command line option and the :envvar: `PYTHONDONTWRITEBYTECODE` environment variable, but you can set it yourself to control bytecode file generation.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 317)

Unknown directive type "data".

```
If this is set (not ``None``), Python will write bytecode-cache ``.pyc``
files to (and read them from) a parallel directory tree rooted at this
directory, rather than from ``_pycache__`` directories in the source code
tree. Any ``_pycache__`` directories in the source code tree will be ignored
and new `.pyc` files written within the pycache prefix. Thus if you use
:mod:`compileall` as a pre-build step, you must ensure you run it with the
same pycache prefix (if any) that you will use at runtime.

A relative path is interpreted relative to the current working directory.

This value is initially set based on the value of the :option:`-X`
```

"his value is initially set based on the value of the :option: -X
"pycache_prefix=PATH" command-line option or the
:envvar: PYTHONPYCACHEPREFIX" environment variable (command-line takes
precedence). If neither are set, it is "None".

.. versionadded:: 3.8

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]sys.rst, line 337)

Unknown directive type "function".

```
.. function:: excepthook(type, value, traceback)
This function prints out a given traceback and exception to ``sys.stderr``.
When an exception is raised and uncaught, the interpreter calls
```

``sys.excepthook`` with three arguments, the exception class, exception instance, and a traceback object. In an interactive session this happens just before control is returned to the prompt; in a Python program this happens just before the program exits. The handling of such top-level exceptions can be customized by assigning another three-argument function to ``sys.excepthook``.

.. audit-event:: sys.excepthook hook, type, value, traceback sys.excepthook

Raise an auditing event ``sys.excepthook`` with arguments ``hook``,
``type``, ``value``, ``traceback`` when an uncaught exception occurs.

If no hook has been set, ``hook`` may be ``None``. If any hook raises an exception derived from :class:`RuntimeError` the call to the hook will be suppressed. Otherwise, the audit hook exception will be reported as unraisable and ``sys.excepthook`` will be called.

.. seealso::

The :func:`sys.unraisablehook` function handles unraisable exceptions and the :func:`threading.excepthook` function handles exception raised by :func:`threading.Thread.run`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 364)

Unknown directive type "data".

```
.. data:: __breakpointhook__
__displayhook__
__excepthook_
__unraisablehook
```

These objects contain the original values of ``breakpointhook``, ``displayhook``, ``excepthook``, and ``unraisablehook`` at the start of the program. They are saved so that ``breakpointhook``, ``displayhook`` and ``excepthook``, ``unraisablehook`` can be restored in case they happen to get replaced with broken or alternative objects.

```
.. versionadded:: 3.7
   __breakpointhook__
.. versionadded:: 3.8
   __unraisablehook
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 382)

Unknown directive type "function".

.. function:: exception()

This function returns the exception instance that is currently being handled. This exception is specific both to the current thread and to the current stack frame. If the current stack frame is not handling an exception, the exception is taken from the calling stack frame, or its caller, and so on until a stack frame is found that is handling an exception. Here, "handling an exception" is defined as "executing an except clause." For any stack frame, only the exception being currently handled is accessible.

.. index:: object: traceback

If no exception is being handled anywhere on the stack, ``None`` is returned.

.. versionadded:: 3.11

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 401)

Unknown directive type "function".

```
.. function:: exc_info()
```

This function returns the old-style representation of the handled exception. If an exception ``e`` is currently handled (so :func:`exception` would return ``e``), :func:`exc_info` returns the tuple ``(type(e), e, e.__traceback__)``.

That is, a tuple containing the type of the exception (a subclass of :exc:`BaseException`), the exception itself, and a :ref:`traceback object <traceback-objects>` which typically encapsulates the call stack at the point where the exception last occurred.

.. index:: object: traceback

If no exception is being handled anywhere on the stack, this function return a tuple containing three ``None`` values.

.. versionchanged:: 3.11
 The ``type`` and ``traceback`` fields are now derived from the ``value``
 (the exception instance), so when an exception is modified while it is being handled, the changes are reflected in the results of subsequent calls to :func:`exc info`.

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Unknown directive type "data".

.. data:: exec prefix

A string giving the site-specific directory prefix where the platform-dependent Python files are installed; by default, this is also ``'/usr/local'``. This can be set at build time with the ``--exec-prefix`` argument to the :program:`configure` script. Specifically, all configuration files (e.g. the :file:`pyconfig.h` header file) are installed in the directory :file:`{exec_prefix}/lib/python{X.Y}/config`, and shared library modules are installed in :file:`{exec_prefix}/lib/python{X.Y}/lib-dynload`, where *X.Y* is the version number of Python, for example ``3.2``.

.. note::

If a :ref:`virtual environment <venv-def>` is in effect, this value will be changed in ``site.py`` to point to the virtual environment. The value for the Python installation will still be available, via :data:`base exec prefix`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]sys.rst, line 442)

Unknown directive type "data".

.. data:: executable

A string giving the absolute path of the executable binary for the Python interpreter, on systems where this makes sense. If Python is unable to retrieve the real path to its executable, :data:`sys.executable` will be an empty string or ``None``.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 450)

Unknown directive type "function".

.. function:: exit([arg])

Raise a :exc:`SystemExit` exception, signaling an intention to exit the interpreter

The optional argument *arg* can be an integer giving the exit status (defaulting to zero), or another type of object. If it is an integer, zero is considered "successful termination" and any nonzero value is considered "abnormal termination" by shells and the like. Most systems require it to be in the range 0--127, and produce undefined results otherwise. Some systems have a convention for assigning specific meanings to specific exit codes, but these are generally underdeveloped; Unix programs generally use 2 for command line syntax errors and 1 for all other kind of errors. If another type of object is passed, ``None`` is equivalent to passing zero, and any other object is printed to :data:`stderr` and results in an exit code of 1. In

particular, ``sys.exit("some error message")`` is a quick way to exit a program when an error occurs. Since :func:`exit` ultimately "only" raises an exception, it will only exit the process when called from the main thread, and the exception is not intercepted. Cleanup actions specified by finally clauses of :keyword:`try` statements are honored, and it is possible to intercept the exit attempt at an outer level. .. versionchanged:: 3.6 If an error occurs in the cleanup after the Python interpreter has caught :exc:`SystemExit` (such as an error flushing buffered data in the standard streams), the exit status is changed to 120. $System\,Message:\,ERROR/3\,(\texttt{D:}\nonline)-resources$ main\Doc\library\[cpython-main][Doc][library]sys.rst, line 478) Unknown directive type "data". .. data:: flags The :term:`named tuple` *flags* exposes the status of command line flags. The attributes are read only. attribute :const:`debug` :option: `-d` :option: `-i`
:option: `-i`
:option: `-I` :const:`inspect` :const:`interactive` :const:`isolated` :option: `-X utf8 <-X>` :const:`utf8 mode` .. versionchanged:: 3.2 Added ``quiet`` attribute for the new :option: `-q` flag.

```
.. versionadded:: 3.2.3
  The ``hash randomization`` attribute.
```

.. versionchanged:: 3.3
 Removed obsolete ``division_warning`` attribute.

.. versionchanged:: 3.4
 Added ``isolated`` attribute for :option:`-I` ``isolated`` flag.

.. versionchanged:: 3.7
 Added the ``dev_mode`` attribute for the new :ref:`Python Development
 Mode <devmode>` and the ``utf8_mode`` attribute for the new :option:`-X`
 ``utf8`` flag.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 521)

Unknown directive type "data".

```
.. data:: float_info
```

A :term:`named tuple` holding information about the float type. It contains low level information about the precision and internal representation. The values correspond to the various floating-point constants defined in the standard header file:file:`float.h` for the 'C' programming language; see section 5.2.4.2.2 of the 1999 ISO/IEC C standard [C99]_, 'Characteristics of floating types', for details.

.. tabularcolumns:: |1|1|L|

attribute	+ float.h macro	explanation	+
:const:`epsilon`	DBL_EPSILON	difference between 1.0 and the least value greater than 1.0 that is representable as a float	at
 	 	See also :func:`math.ulp`.	
:const:`dig`	DBL_DIG	maximum number of decimal digits that can be faithfully represented in a float; see below	
:const:`mant_dig`	DBL_MANT_DIG	float precision: the number of base-``radix`` digits in the significand of a float	
:const:`max`	DBL_MAX	maximum representable positive finite float	+
:const:`max_exp`	DBL_MAX_EXP	maximum integer *e* such that ``radix**(e-1)`` a representable finite float	is
:const:`max_10_exp`	DBL_MAX_10_EXP	maximum integer *e* such that ``10**e`` is in the range of representable finite floats	he
:const:`min`	DBL_MIN	minimum representable positive *normalized* float	at
 	 	Use :func:`math.ulp(0.0) <math.ulp>` to get the smallest positive *denormalized* representable float.</math.ulp>	
:const:`min_exp`	+	minimum integer *e* such that ``radix**(e-1)`` a normalized float	is
:const:`min_10_exp`	DBL_MIN_10_EXP	minimum integer *e* such that ``10**e`` is a normalized float	
:const:`radix`	FLT_RADIX	radix of exponent representation	+
:const:`rounds`	FLT_ROUNDS 	integer constant representing the rounding mode used for arithmetic operations. This reflects the value of the system FLT_ROUNDS macro at interpreter startup time. See section 5.2 4.2. of the C99 standard for an explanation of the possible values and their meanings.	1

The attribute :attr:`sys.float_info.dig` needs further explanation. If ``s`` is any string representing a decimal number with at most :attr:`sys.float_info.dig` significant digits, then converting ``s`` to a float and back again will recover a string representing the same decimal value::

```
>>> import sys
>>> sys.float_info.dig
15
>>> s = '3.14159265358979'  # decimal string with 15 significant digits
>>> format(float(s), '.15g')  # convert to float and back -> same value
'3.14159265358979'
```

But for strings with more than :attr:`sys.float_info.dig` significant digits, this isn't always true::

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 596)

Unknown directive type "data".

```
.. data:: float_repr_style
```

A string indicating how the :func:`repr` function behaves for floats. If the string has value ``'short'`` then for a finite float ``x``, ``repr(x)`` aims to produce a short string with the property that ``float(repr(x)) == x``. This is the usual behaviour in Python 3.1 and later. Otherwise, ``float_repr_style`` has value ``'legacy'`` and ``repr(x)`` behaves in the same way as it did in versions of Python prior to 3.1.

.. versionadded:: 3.1

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]sys.rst, line 609)

Unknown directive type "function".

.. function:: getallocatedblocks()

Return the number of memory blocks currently allocated by the interpreter, regardless of their size. This function is mainly useful for tracking and debugging memory leaks. Because of the interpreter's internal caches, the result can vary from call to call; you may have to call: func:`_clear_type_cache()` and :func:`gc.collect()` to get more predictable results.

If a Python build or implementation cannot reasonably compute this information, :func:`getallocatedblocks()` is allowed to return 0 instead.

.. versionadded:: 3.4

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 624)

Unknown directive type "function".

.. function:: getandroidapilevel()

Return the build time API version of Android as an integer.

- .. availability:: Android.
- .. versionadded:: 3.7

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 633)

Unknown directive type "function".

.. function:: getdefaultencoding()

Return the name of the current default string encoding used by the Unicode implementation.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]sys.rst, line 639)

Unknown directive type "function".

.. function:: getdlopenflags()

Return the current value of the flags that are used for :c:func:`dlopen` calls. Symbolic names for the flag values can be found in the :mod:`os` module (``RTLD_xxx`` constants, e.g. :data:`os.RTLD LAZY`).

.. availability:: Unix.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]sys.rst, line 649)

Unknown directive type "function".

.. function:: getfilesystemencoding()

Get the :term:`filesystem encoding <filesystem encoding and error handler>`: the encoding used with the :term:`filesystem error handler <filesystem encoding and error handler>` to convert between Unicode filenames and bytes

```
filenames. The filesystem error handler is returned from
:func:`getfilesystemencoding`.
For best compatibility, str should be used for filenames in all cases,
although representing filenames as bytes is also supported. Functions
accepting or returning filenames should support either str or bytes and
internally convert to the system's preferred representation.
:func:`os.fsencode` and :func:`os.fsdecode` should be used to ensure that
the correct encoding and errors mode are used.
The :term:`filesystem encoding and error handler` are configured at Python
startup by the :c:func: `PyConfig_Read` function: see
:c:member:`~PyConfig.filesystem encoding` and
:c:member:`~PyConfig.filesystem errors` members of :c:type:`PyConfig`.
.. versionchanged:: 3.2
   :func:`getfilesystemencoding` result cannot be ``None`` anymore.
.. versionchanged:: 3.6
   Windows is no longer guaranteed to return ``'mbcs'``. See :pep:`529`
   and :func: `_enablelegacywindowsfsencoding` for more information.
.. versionchanged:: 3.7
Return ``'utf-8'`` if the :ref:`Python UTF-8 Mode <utf8-mode>` is
   enabled.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 682)

Unknown directive type "function".

.. function:: getfilesystemencodeerrors()

Get the :term:`filesystem error handler <filesystem encoding and error handler>`: the error handler used with the :term:`filesystem encoding <filesystem encoding and error handler>` to convert between Unicode filenames and bytes filenames. The filesystem encoding is returned from :func:`getfilesystemencoding`.

:func:`os.fsencode` and :func:`os.fsdecode` should be used to ensure that the correct encoding and errors mode are used.

The :term:`filesystem encoding and error handler` are configured at Python startup by the :c:func:`PyConfig_Read` function: see :c:member:`~PyConfig.filesystem_encoding` and :c:member:`~PyConfig.filesystem_errors` members of :c:type:`PyConfig`.

.. versionadded:: 3.6

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]sys.rst, line 700)

Unknown directive type "function".

.. function:: getrefcount(object)

Return the reference count of the *object*. The count returned is generally one higher than you might expect, because it includes the (temporary) reference as an argument to :func:`getrefcount`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 707)

Unknown directive type "function".

.. function:: getrecursionlimit()

Return the current value of the recursion limit, the maximum depth of the Python interpreter stack. This limit prevents infinite recursion from causing an overflow of the C stack and crashing Python. It can be set by :func:`setrecursionlimit`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 715)

Unknown directive type "function".

.. function:: getsizeof(object[, default])

Return the size of an object in bytes. The object can be any type of object. All built-in objects will return correct results, but this does not have to hold true for third-party extensions as it is implementation specific.

Only the memory consumption directly attributed to the object is accounted for, not the memory consumption of objects it refers to.

If given, *default* will be returned if the object does not provide means to retrieve the size. Otherwise a :exc:`TypeError` will be raised.

:func:`getsizeof` calls the object's ``_sizeof__`` method and adds an additional garbage collector overhead if the object is managed by the garbage collector.

See `recursive sizeof recipe https://code.activestate.com/recipes/577504 for an example of using :func: `getsizeof` recursively to find the size of containers and all their contents.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 736)

Unknown directive type "function".

```
.. function:: getswitchinterval()

Return the interpreter's "thread switch interval"; see
:func:`setswitchinterval`.
.. versionadded:: 3.2
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 744)

Unknown directive type "function".

.. function:: _getframe([depth])

Return a frame object from the call stack. If optional integer *depth* is given, return the frame object that many calls below the top of the stack. If that is deeper than the call stack, :exc:`ValueError` is raised. The default for *depth* is zero, returning the frame at the top of the call stack.

```
.. audit-event:: sys._getframe "" sys._getframe
```

.. impl-detail::

This function should be used for internal and specialized purposes only. It is not guaranteed to exist in all implementations of Python.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 759)

Unknown directive type "function".

```
.. function:: getprofile()
.. index::
    single: profile function
    single: profiler

Get the profiler function as set by :func:`setprofile`.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 768)

Unknown directive type "function".

```
.. function:: gettrace()
.. index::
    single: trace function
    single: debugger
```

Get the trace function as set by :func:`settrace`.

.. impl-detail::

The :func:`gettrace` function is intended only for implementing debuggers, profilers, coverage tools and the like. Its behavior is part of the implementation platform, rather than part of the language definition, and thus may not be available in all Python implementations.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 784)

Unknown directive type "function".

.. function:: getwindowsversion()

```
Return a named tuple describing the Windows version currently running. The named elements are *major*, *minor*, *build*, *platform*, *service_pack*, *service_pack_minor*, *service_pack_major*, *suite_mask*, *product_type* and *platform_version*. *service_pack* contains a string, *platform_version* a 3-tuple and all other values are integers. The components can also be accessed by name, so ``sys.getwindowsversion()[0]`` is equivalent to ``sys.getwindowsversion().major``. For compatibility with prior versions, only the first 5 elements are retrievable by indexing.
```

platform will be :const:`2 (VER_PLATFORM_WIN32_NT)`.

product type may be one of the following values:

Constant	++ Meaning
:const:`1 (VER_NT_WORKSTATION)`	The system is a workstation.
:const:`2 (VER_NT_DOMAIN_CONTROLLER)`	The system is a domain controller.
:const:`3 (VER_NT_SERVER)`	The system is a server, but not a domain controller.

This function wraps the Win32 :c:func:`GetVersionEx` function; see the Microsoft documentation on :c:func:`OSVERSIONINFOEX` for more information about these fields.

platform_version returns the major version, minor version and build number of the current operating system, rather than the version that is being emulated for the process. It is intended for use in logging rather than for feature detection.

.. note::

platform_version derives the version from kernel32.dll which can be of a different version than the OS version. Please use :mod:`platform` module for achieving accurate OS version.

```
\dots availability:: Windows.
```

```
.. versionchanged:: 3.2
  Changed to a named tuple and added *service_pack_minor*,
  *service_pack_major*, *suite_mask*, and *product_type*.
```

```
.. versionchanged:: 3.6
Added *platform version*
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 837)

Unknown directive type "function".

.. function:: get asyncgen hooks()

Returns an *asyncgen_hooks* object, which is similar to a :class:`~collections.namedtuple` of the form `(firstiter, finalizer)`, where *firstiter* and *finalizer* are expected to be either ``None`` or functions which take an :term:`asynchronous generator iterator` as an argument, and are used to schedule finalization of an asynchronous generator by an event loop.

- .. versionadded:: 3.6
 See :pep:`525` for more details.
- .. note::
 This function has been added on a provisional basis (see :pep:`411`
 for details.)

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 854)

Unknown directive type "function".

```
.. function:: get_coroutine_origin_tracking_depth()
```

Get the current coroutine origin tracking depth, as set by :func:`set_coroutine_origin_tracking_depth`.

- .. versionadded:: 3.7
- .. note::

This function has been added on a provisional basis (see :pep:`411` for details.) Use it only for debugging purposes.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 866)

Unknown directive type "data".

.. data:: hash_info

A :term:`named tuple` giving parameters of the numeric hash implementation. For more details about hashing of numeric types, see :ref:`numeric-hash`.

4		·	
	attribute	explanation	
	:const:`width`	width in bits used for hash values	
	:const:`modulus`	prime modulus P used for numeric hash scheme	
	:const:`inf`	hash value returned for a positive infinity	
	:const:`nan`	(this attribute is no longer used)	
	:const:`imag`	multiplier used for the imaginary part of a complex number	
	:const:`algorithm`	name of the algorithm for hashing of str, bytes, and memoryview	
	:const:`hash_bits`	internal output size of the hash algorithm	
	:const:`seed_bits`	size of the seed key of the hash algorithm	
7			

- .. versionadded:: 3.2
- .. versionchanged:: 3.4 Added *algorithm*, *hash bits* and *seed bits*

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]sys.rst, line 901)

Unknown directive type "data".

.. data:: hexversion

The version number encoded as a single integer. This is guaranteed to increase with each version, including proper support for non-production releases. For example, to test that the Python interpreter is at least version 1.5.2, use::

```
if sys.hexversion >= 0x010502F0:
    # use some advanced feature
    ...
else:
    # use an alternative implementation or warn the user
    ...
```

This is called ``hexversion`` since it only really looks meaningful when viewed as the result of passing it to the built-in :func:`hex` function. The :term:`named tuple` :data:`sys.version_info` may be used for a more human-friendly encoding of the same information.

More details of ``hexversion`` can be found at :ref:`apiabiversion`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 922)

Unknown directive type "data".

.. data:: implementation

An object containing information about the implementation of the currently running Python interpreter. The following attributes are required to exist in all Python implementations.

name is the implementation's identifier, e.g. ``'cpython'``. The actual string is defined by the Python implementation, but it is guaranteed to be lower case.

version is a named tuple, in the same format as :data:`sys.version_info`. It represents the version of the Python *implementation*. This has a distinct meaning from the specific version of the Python *language* to which the currently running interpreter conforms, which ``sys.version_info`` represents. For example, for PyPy 1.8 ``sys.implementation.version`` might be ``sys.version_info(1, 8, 0, 'final', 0)``, whereas ``sys.version_info`` would be ``sys.version_info(2, 7, 2, 'final', 0)``. For CPython they are the same value, since it is the reference implementation.

hexversion is the implementation version in hexadecimal format, like :data:`sys.hexversion`.

cache_tag is the tag used by the import machinery in the filenames of cached modules. By convention, it would be a composite of the implementation's name and version, like ``'cpython-33'``. However, a Python implementation may use some other value if appropriate. If ``cache_tag`` is set to ``None``, it indicates that module caching should be disabled.

:data:`sys.implementation` may contain additional attributes specific to the Python implementation. These non-standard attributes must start with an underscore, and are not described here. Regardless of its contents, :data:`sys.implementation` will not change during a run of the interpreter, nor between implementation versions. (It may change between Python language versions, however.) See :pep:`421` for more information.

.. versionadded:: 3.3

.. note::

The addition of new required attributes must go through the normal PEP process. See :pep:`421` for more information.

Unknown directive type "data".

```
.. data:: int info
```

A :term:`named tuple` that holds information about Python's internal representation of integers. The attributes are read only.

.. tabularcolumns:: |1|L|

Attribute	Explanation
:const:`bits_per_digit`	number of bits held in each digit. Python integers are stored internally in base ``2**int_info.bits_per_digit``
:const:`sizeof_digit`	size in bytes of the C type used to represent a digit

.. versionadded:: 3.1

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 987)

Unknown directive type "data".

.. data:: __interactivehook__

When this attribute exists, its value is automatically called (with no arguments) when the interpreter is launched in :ref:`interactive mode <tut-interactive>`. This is done after the :envvar:`PYTHONSTARTUP` file is read, so that you can set this hook there. The :mod:`site` module :ref:`sets this <rlcompleter-config>`.

.. audit-event:: cpython.run_interactivehook hook sys.__interactivehook__

Raises an :ref:`auditing event <auditing>`
``cpython.run_interactivehook`` with the hook object as the argument when the hook is called on startup.

.. versionadded:: 3.4

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1004)

Unknown directive type "function".

.. function:: intern(string)

Enter *string* in the table of "interned" strings and return the interned string -- which is *string* itself or a copy. Interning strings is useful to gain a little performance on dictionary lookup -- if the keys in a dictionary are interned, and the lookup key is interned, the key comparisons (after hashing) can be done by a pointer compare instead of a string compare. Normally, the names used in Python programs are automatically interned, and the dictionaries used to hold module, class or instance attributes have interned keys.

Interned strings are not immortal; you must keep a reference to the return value of :func:`intern` around to benefit from it.

Unknown directive type "function".

```
.. function:: is_finalizing()
   Return :const:`True` if the Python interpreter is
```

```
:term:`shutting down <interpreter shutdown>`, :const:`False` otherwise.
.. versionadded:: 3.5
```

 $System\,Message: ERROR/3~(\texttt{D:}\nonline) resources \verb|\sample-onboarding-resources| cpython-main| [Doc| [library| sys.rst, line 1026)| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026| | 1026|$

Unknown directive type "data".

```
.. data:: last_type
last_value
last_traceback
```

These three variables are not always defined; they are set when an exception is not handled and the interpreter prints an error message and a stack traceback. Their intended use is to allow an interactive user to import a debugger module and engage in post-mortem debugging without having to re-execute the command that caused the error. (Typical use is ``import pdb; pdb.pm()`` to enter the post-mortem debugger; see :mod:`pdb` module for more information.)

The meaning of the variables is the same as that of the return values from :func:`exc_info` above.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1042)

Unknown directive type "data".

```
.. data:: maxsize
```

An integer giving the maximum value a variable of type :c:type:`Py_ssize_t` can take. It's usually ``2**31 - 1`` on a 32-bit platform and ``2**63 - 1`` on a 64-bit platform.

Unknown directive type "data".

```
.. data:: maxunicode
An integer giving the value of the largest Unicode code point,
i.e. ``1114111`` (``0x10FFFF`` in hexadecimal).
```

.. versionchanged:: 3.3
Before :pep:`393`, ``sys.maxunicode`` used to be either ``0xFFFF``
or ``0x10FFFFF``, depending on the configuration option that specified whether Unicode characters were stored as UCS-2 or UCS-4.

 $System\,Message:\,ERROR/3~(\mbox{D:\nonlinear-resources}\scample-onboarding-resources\cpython-main\noc\library\cpython-main\cpython-mai$

Unknown directive type "data".

```
.. data:: meta path
```

```
A list of :term:`meta path finder` objects that have their :meth:`~importlib.abc.MetaPathFinder.find_spec` methods called to see if one of the objects can find the module to be imported. The :meth:`~importlib.abc.MetaPathFinder.find_spec` method is called with at least the absolute name of the module being imported. If the module to be imported is contained in a package, then the parent package's :attr:`__path__` attribute is passed in as a second argument. The method returns a :term:`module spec`, or ``None`` if the module cannot be found.
```

.. seealso::

```
:class:`importlib.abc.MetaPathFinder`
  The abstract base class defining the interface of finder objects on
```

```
:data:`meta_path`.
:class:`importlib.machinery.ModuleSpec`
   The concrete class which
   :meth:`~importlib.abc.MetaPathFinder.find_spec` should return
   instances of.

.. versionchanged:: 3.4

:term:`Module specs <module spec>` were introduced in Python 3.4, by
   :pep:`451`. Earlier versions of Python looked for a method called
   :meth:`~importlib.abc.MetaPathFinder.find_module`.
   This is still called as a fallback if a :data:`meta_path` entry doesn't
   have a :meth:`~importlib.abc.MetaPathFinder.find_spec` method.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1089)

Unknown directive type "data".

.. data:: modules

This is a dictionary that maps module names to modules which have already been loaded. This can be manipulated to force reloading of modules and other tricks. However, replacing the dictionary will not necessarily work as expected and deleting essential items from the dictionary may cause Python to fail. If you want to iterate over this global dictionary always use ``sys.modules.copy()`` or ``tuple(sys.modules)`` to avoid exceptions as its size may change during iteration as a side effect of code or activity in other threads.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1101)

Unknown directive type "data".

```
.. data:: orig_argv
The list of the original command line arguments passed to the Python executable.
See also :data:`sys.argv`.
.. versionadded:: 3.10
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1111)

Unknown directive type "data".

```
.. data:: path
.. index:: triple: module; search; path
```

A list of strings that specifies the search path for modules. Initialized from the environment variable :envvar: `PYTHONPATH`, plus an installation-dependent default.

As initialized upon program startup, the first item of this list, ``path[0]``, is the directory containing the script that was used to invoke the Python interpreter. If the script directory is not available (e.g. if the interpreter is invoked interactively or if the script is read from standard input), ``path[0]`` is the empty string, which directs Python to search modules in the current directory first. Notice that the script directory is inserted *before* the entries inserted as a result of :envvar: `PYTHONPATH`.

The initialization of :data:`sys.path` is documented at :ref:`sys-path-init`.

A program is free to modify this list for its own purposes. Only strings and bytes should be added to :data:`sys.path`; all other data types are ignored during import.

```
.. seealso::
  * Module :mod:`site` This describes how to use .pth files to
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]sys.rst, line 1138)

Unknown directive type "data".

```
.. data:: path_hooks
```

A list of callables that take a path argument to try to create a :term:`finder` for the path. If a finder can be created, it is to be returned by the callable, else raise :exc:`ImportError`.

Originally specified in :pep: `302`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1147)

Unknown directive type "data".

```
.. data:: path_importer_cache
```

A dictionary acting as a cache for :term:`finder` objects. The keys are paths that have been passed to :data:`sys.path_hooks` and the values are the finders that are found. If a path is a valid file system path but no finder is found on :data:`sys.path_hooks` then ``None`` is stored.

Originally specified in :pep: `302`.

```
.. versionchanged:: 3.3
```

``None`` is stored instead of :class:`imp.NullImporter` when no finder is found.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1162)

Unknown directive type "data".

```
.. data:: platform
```

This string contains a platform identifier that can be used to append platform-specific components to :data:`sys.path`, for instance.

For Unix systems, except on Linux and AIX, this is the lowercased OS name as returned by ``uname -s`` with the first part of the version as returned by ``uname -r`` appended, e.g. ``'sunos5'`` or ``'freebsd8'``, *at the time when Python was built*. Unless you want to test for a specific system version, it is therefore recommended to use the following idiom::

```
if sys.platform.startswith('freebsd'):
    # FreeBSD-specific code here...
elif sys.platform.startswith('linux'):
    # Linux-specific code here...
elif sys.platform.startswith('aix'):
    # AIX-specific code here...
```

For other systems, the values are:

```
System 'platform' value

AIX ''aix'
Linux 'linux'
Windows 'win32'
Windows/Cygwin 'reygwin'
macOS 'darwin'
```

```
.. versionchanged:: 3.3
```

On Linux, :attr:`sys.platform` doesn't contain the major version anymore. It is always ``'linux'``, instead of ``'linux2'`` or ``'linux3'``. Since older Python versions include the version number, it is recommended to always use the ``startswith`` idiom presented above.

```
.. versionchanged:: 3.8
  On AIX, :attr:`sys.platform` doesn't contain the major version anymore.
  It is always ``'aix'``, instead of ``'aix5'`` or ``'aix7'``. Since
  older Python versions include the version number, it is recommended to
  always use the ``startswith`` idiom presented above.

.. seealso::
  :attr:`os.name` has a coarser granularity. :func:`os.uname` gives
  system-dependent version information.

The :mod:`platform` module provides detailed checks for the
  system's identity.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1213)

Unknown directive type "data".

.. data:: platlibdir

Name of the platform-specific library directory. It is used to build the path of standard library and the paths of installed extension modules.

It is equal to ``"lib"`` on most platforms. On Fedora and SuSE, it is equal to ``"lib64"`` on 64-bit platforms which gives the following ``sys.path`` paths (where ``X.Y`` is the Python ``major.minor`` version):

```
* ``/usr/lib64/pythonX.Y/``:
```

Standard library (like ``os.py`` of the :mod:`os` module)

* ``/usr/lib64/pythonX.Y/lib-dynload/``:

C extension modules of the standard library (like the :mod:`errno` module, the exact filename is platform specific)

* ``/usr/lib/pythonX.Y/site-packages/`` (always use ``lib``, not :data:`sys.platlibdir`): Third-party modules

* ``/usr/lib64/pythonX.Y/site-packages/``:

C extension modules of third-party packages

.. versionadded:: 3.9

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1235)

Unknown directive type "data".

.. data:: prefix

A string giving the site-specific directory prefix where the platform independent Python files are installed; on Unix, the default is ``'/usr/local'``. This can be set at build time with the ``--prefix`` argument to the :program:`configure` script. See :ref:`installation_paths` for derived paths.

.. note:: If a :ref:`virtual environment <venv-def>` is in effect, this
 value will be changed in ``site.py`` to point to the virtual
 environment. The value for the Python installation will still be
 available, via :data:`base prefix`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1249)

Unknown directive type "data".

```
.. data:: ps1
     ps2

.. index::
     single: interpreter prompts
     single: prompts, interpreter
     single: >>>; interpreter prompt
     single: ...; interpreter prompt
```

Strings specifying the primary and secondary prompt of the interpreter. These are only defined if the interpreter is in interactive mode. Their initial values in this case are ``'>>> '`` and ``'... '``. If a non-string object is assigned to either variable, its :func:`str` is re-evaluated each time the interpreter prepares to read a new interactive command; this can be used to implement a dynamic prompt.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library]sys.rst, line 1266)

Unknown directive type "function".

.. function:: setdlopenflags(n)

Set the flags used by the interpreter for :c:func:`dlopen` calls, such as when the interpreter loads extension modules. Among other things, this will enable a lazy resolving of symbols when importing a module, if called as ``sys.setdlopenflags(0)``. To share symbols across extension modules, call as ``sys.setdlopenflags(os.RTLD_GLOBAL)``. Symbolic names for the flag values can be found in the :mod:`os` module (``RTLD_xxx`` constants, e.g. :data:`os.RTLD_LAZY`).

.. availability:: Unix.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1278)

Unknown directive type "function".

``'c return'``

``'c exception'``

```
.. function:: setprofile(profilefunc)
   .. index::
      single: profile function
      single: profiler
   Set the system's profile function, which allows you to implement a Python source code profiler in Python. See chapter :ref:`profile` for more information on the
   Python profiler. The system's profile function is called similarly to the
   system's trace function (see :func:`settrace`), but it is called with different events,
   for example it isn't called for each executed line of code (only on call and return
   but the return event is reported even when an exception has been set). The function is
   thread-specific, but there is no way for the profiler to know about context switches between
   threads, so it does not make sense to use this in the presence of multiple threads. Also, its return value is not used, so it can simply return ``None``. Error in the profile
   function will cause itself unset.
   Profile functions should have three arguments: *frame*, *event*, and
   *arg*. *frame* is the current stack frame. *event* is a string: ``'call'``,
``'return'``, ``'c_call'``, ``'c_return'``, or ``'c_exception'``. *arg* depends
   on the event type.
   .. audit-event:: sys.setprofile "" sys.setprofile
   The events have the following meaning:
   ``'call'``
      A function is called (or some other code block entered). The
      profile function is called; *arg* is ``None``.
   ``'return'``
       A function (or other code block) is about to return. The profile
      function is called; *arg* is the value that will be returned, or ``None``
      if the event is caused by an exception being raised.
   ``'c call'``
      A C function is about to be called. This may be an extension function or
```

a built-in. *arg* is the C function object.

A C function has returned. *arg* is the C function object.

A C function has raised an exception. *arg* is the C function object.

Unknown directive type "function".

.. function:: setrecursionlimit(limit)

Set the maximum depth of the Python interpreter stack to *limit*. This limit prevents infinite recursion from causing an overflow of the C stack and crashing Python.

The highest possible limit is platform-dependent. A user may need to set the limit higher when they have a program that requires deep recursion and a platform that supports a higher limit. This should be done with care, because a too-high limit can lead to a crash.

If the new limit is too low at the current recursion depth, a :exc:`RecursionError` exception is raised.

.. versionchanged:: 3.5.1
 A :exc:`RecursionError` exception is now raised if the new limit is too
 low at the current recursion depth.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1342)

Unknown directive type "function".

.. function:: setswitchinterval(interval)

Set the interpreter's thread switch interval (in seconds). This floating-point value determines the ideal duration of the "timeslices" allocated to concurrently running Python threads. Please note that the actual value can be higher, especially if long-running internal functions or methods are used. Also, which thread becomes scheduled at the end of the interval is the operating system's decision. The interpreter doesn't have its own scheduler.

.. versionadded:: 3.2

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1355)

Unknown directive type "function".

```
.. function:: settrace(tracefunc)
```

```
.. index::
    single: trace function
    single: debugger
```

Set the system's trace function, which allows you to implement a Python source code debugger in Python. The function is thread-specific; for a debugger to support multiple threads, it must register a trace function using :func:`settrace` for each thread being debugged or use :func:`threading.settrace`.

Trace functions should have three arguments: *frame*, *event*, and *arg*. *frame* is the current stack frame. *event* is a string: ``'call'``, ``'line'``, ``'return'``, ``'exception'`` or ``'opcode'``. *arg* depends on the event type.

The trace function is invoked (with *event* set to ``'call'``) whenever a new local scope is entered; it should return a reference to a local trace function to be used for the new scope, or ``None`` if the scope shouldn't be traced.

The local trace function should return a reference to itself (or to another function for further tracing in that scope), or ``None`` to turn off tracing in that scope.

If there is any error occurred in the trace function, it will be unset, just like ``settrace(None)`` is called.

The events have the following meaning:

``'call'``

A function is called (or some other code block entered). The global trace function is called; *arg* is ``None``; the return value specifies the local trace function.

``'line'``

The interpreter is about to execute a new line of code or re-execute the condition of a loop. The local trace function is called; *arg* is ``None``; the return value specifies the new local trace function. See :file:`Objects/lnotab_notes.txt` for a detailed explanation of how this works.

Per-line events may be disabled for a frame by setting :attr:`f trace lines` to :const:`False` on that frame.

``'return'``

A function (or other code block) is about to return. The local trace function is called; *arg* is the value that will be returned, or ``None`` if the event is caused by an exception being raised. The trace function's return value is ignored.

``'exception'``

An exception has occurred. The local trace function is called; *arg* is a tuple ``(exception, value, traceback)``; the return value specifies the new local trace function.

``'opcode'``

The interpreter is about to execute a new opcode (see :mod:`dis` for opcode details). The local trace function is called; *arg* is ``None``; the return value specifies the new local trace function. Per-opcode events are not emitted by default: they must be explicitly requested by setting :attr:`f_trace_opcodes` to :const:`True` on the frame.

Note that as an exception is propagated down the chain of callers, an ``'exception'`` event is generated at each level.

For more fine-grained usage, it's possible to set a trace function by assigning ``frame.f_trace = tracefunc`` explicitly, rather than relying on it being set indirectly via the return value from an already installed trace function. This is also required for activating the trace function on the current frame, which :func:`settrace` doesn't do. Note that in order for this to work, a global tracing function must have been installed with :func:`settrace` in order to enable the runtime tracing machinery, but it doesn't need to be the same tracing function (e.g. it could be a low overhead tracing function that simply returns ``None`` to disable itself immediately on each frame).

For more information on code and frame objects, refer to :ref:`types`.

- .. audit-event:: sys.settrace "" sys.settrace
- \dots impl-detail::

The :func:`settrace` function is intended only for implementing debuggers, profilers, coverage tools and the like. Its behavior is part of the implementation platform, rather than part of the language definition, and thus may not be available in all Python implementations.

.. versionchanged:: 3.7

``'opcode'`` event type added; :attr:`f_trace_lines` and :attr:`f_trace_opcodes` attributes added to frames

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1448)

Unknown directive type "function".

.. function:: set_asyncgen_hooks(firstiter, finalizer)

Accepts two optional keyword arguments which are callables that accept an :term:`asynchronous generator iterator` as an argument. The *firstiter* callable will be called when an asynchronous generator is iterated for the first time. The *finalizer* will be called when an asynchronous generator is about to be garbage collected.

- .. audit-event:: sys.set_asyncgen_hooks_firstiter "" sys.set_asyncgen_hooks
- .. audit-event:: sys.set_asyncgen_hooks_finalizer "" sys.set_asyncgen_hooks

Two auditing events are raised because the underlying API consists of two
calls, each of which must raise its own event.

.. versionadded:: 3.6
 See :pep:`525` for more details, and for a reference example of a
 finalizer method see the implementation of
 ``asyncio.Loop.shutdown_asyncgens`` in
 :source:`Lib/asyncio/base_events.py`

.. note::
 This function has been added on a provisional basis (see :pep:`411`
 for details.)

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1473)

Unknown directive type "function".

.. function:: set coroutine origin tracking depth(depth)

Allows enabling or disabling coroutine origin tracking. When enabled, the ``cr_origin`` attribute on coroutine objects will contain a tuple of (filename, line number, function name) tuples describing the traceback where the coroutine object was created, with the most recent call first. When disabled, ``cr_origin`` will be None.

To enable, pass a *depth* value greater than zero; this sets the number of frames whose information will be captured. To disable, pass set *depth* to zero.

This setting is thread-specific.

- .. versionadded:: 3.7
- .. note::

This function has been added on a provisional basis (see :pep: `411` for details.) Use it only for debugging purposes.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1494)

Unknown directive type "function".

.. function:: _enablelegacywindowsfsencoding()

Changes the :term:`filesystem encoding and error handler` to 'mbcs' and 'replace' respectively, for consistency with versions of Python prior to 3.6.

This is equivalent to defining the :envvar: $\PYTHONLEGACYWINDOWSFSENCODING\$ environment variable before launching Python.

See also :func:`sys.getfilesystemencoding` and :func:`sys.getfilesystemencodeerrors`.

- .. availability:: Windows.
- .. versionadded:: 3.6
 See :pep:`529` for more details.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1511)

Unknown directive type "data".

statements and for the prompts of :func:`input`;
* The interpreter's own prompts and its error messages go to ``stderr``.

These streams are regular :term:`text files <text file>` like those returned by the :func:`open` function. Their parameters are chosen as follows:

* The encoding and error handling are is initialized from :c:member:`PyConfig.stdio encoding` and :c:member:`PyConfig.stdio errors`.

On Windows, UTF-8 is used for the console device. Non-character devices such as disk files and pipes use the system locale encoding (i.e. the ANSI codepage). Non-console character devices such as NUL (i.e. where ``isatty()`` returns ``True``) use the value of the console input and output codepages at startup, respectively for stdin and stdout/stderr. This defaults to the system :term:`locale encoding` if the process is not initially attached to a console.

The special behaviour of the console can be overridden by setting the environment variable PYTHONLEGACYWINDOWSSTDIO before starting Python. In that case, the console codepages are used as for any other character device.

Under all platforms, you can override the character encoding by setting the :envvar: `PYTHONIOENCODING` environment variable before starting Python or by using the new :option: `-X` ``utf8`` command line option and :envvar: `PYTHONUTF8` environment variable. However, for the Windows console, this only applies when :envvar: `PYTHONLEGACYWINDOWSSTDIO` is also set.

- * When interactive, the ``stdout`` stream is line-buffered. Otherwise, it is block-buffered like regular text files. The ``stderr`` stream is line-buffered in both cases. You can make both streams unbuffered by passing the :option:`-u` command-line option or setting the :envvar:`PYTHONUNBUFFERED` environment variable.
- .. versionchanged:: 3.9
 Non-interactive ``stderr`` is now line-buffered instead of fully
 buffered.
- .. note::

To write or read binary data from/to the standard streams, use the underlying binary :data:`~io.TextIOBase.buffer` object. For example, to write bytes to :data:`stdout`, use ``sys.stdout.buffer.write(b'abc')``.

However, if you are writing a library (and do not control in which context its code will be executed), be aware that the standard streams may be replaced with file-like objects like :class:`io.StringIO` which do not support the :attr:`~io.BufferedIOBase.buffer` attribute.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1574)

Unknown directive type "data".

```
.. data:: __stdin__
__stdout__
__stderr__
```

These objects contain the original values of ``stdin``, ``stderr`` and ``stdout`` at the start of the program. They are used during finalization, and could be useful to print to the actual standard stream no matter if the ``sys.std*`` object has been redirected.

It can also be used to restore the actual files to known working file objects in case they have been overwritten with a broken object. However, the preferred way to do this is to explicitly save the previous stream before replacing it, and restore the saved object.

.. note::

Under some conditions ``stdin``, ``stdout`` and ``stderr`` as well as the original values ``_stdin__``, ``_stdout__`` and ``_stderr__`` can be ``None``. It is usually the case for Windows GUI apps that aren't connected to a console and Python apps started with :program:`pythonw`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1595)

Unknown directive type "data".

.. data:: stdlib module names

A frozenset of strings containing the names of standard library modules.

It is the same on all platforms. Modules which are not available on some platforms and modules disabled at Python build are also listed. All module kinds are listed: pure Python, built-in, frozen and extension modules. Test modules are excluded.

For packages, only the main package is listed: sub-packages and sub-modules are not listed. For example, the ``email`` package is listed, but the ``email.mime`` sub-package and the ``email.message`` sub-module are not listed.

See also the :attr:`sys.builtin_module_names` list.

.. versionadded:: 3.10

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1614)

Unknown directive type "data".

.. data:: thread info

 ${\tt A}$:term:`named tuple` holding information about the thread implementation.

.. tabularcolumns:: |1|p{0.7\linewidth}|

Attribute	Explanation	
:const:`name`	Name of the thread implementation:	
	* ``'nt'``: Windows threads * ``'pthread'``: POSIX threads * ``'solaris'``: Solaris threads	
:const:`lock`	Name of the lock implementation:	
	* ``'semaphore'``: a lock uses a semaphore * ``'mutex+cond'``: a lock uses a mutex and a condition variable * ``None`` if this information is unknown	
:const:`version`	Name and version of the thread library. It is a string, or ``None`` if this information is unknown.	

.. versionadded:: 3.3

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1644)

Unknown directive type "data".

.. data:: tracebacklimit

When this variable is set to an integer value, it determines the maximum number of levels of traceback information printed when an unhandled exception occurs. The default is ``1000``. When set to ``0`` or less, all traceback information is suppressed and only the exception type and value are printed.

Unknown directive type "function".

.. function:: unraisablehook(unraisable, /) Handle an unraisable exception. Called when an exception has occurred but there is no way for Python to handle it. For example, when a destructor raises an exception or during garbage collection (:func:`gc.collect`). The *unraisable* argument has the following attributes: * *exc type*: Exception type. * *exc_value*: Exception value, can be ``None`` * *exc_traceback*: Exception traceback, can be ``None``. * *err_msg*: Error message, can be ``None``. * *object*: Object causing the exception, can be ``None``. The default hook formats *err msg* and *object* as: ``f'{err msg}: {object!r}'``; use "Exception ignored in" error message if *err msg* is ``None``. :func:`sys.unraisablehook` can be overridden to control how unraisable exceptions are handled. Storing *exc value* using a custom hook can create a reference cycle. It should be cleared explicitly to break the reference cycle when the exception is no longer needed. Storing *object* using a custom hook can resurrect it if it is set to an object which is being finalized. Avoid storing *object* after the custom hook completes to avoid resurrecting objects. See also :func:`excepthook` which handles uncaught exceptions. .. audit-event:: sys.unraisablehook hook,unraisable sys.unraisablehook

Raise an auditing event ``sys.unraisablehook`` with arguments ``hook``, ``unraisable`` when an exception that cannot be handled occurs. The ``unraisable`` object is the same as what will be passed to the hook. If no hook has been set, ``hook`` may be ``None``.

.. versionadded:: 3.8

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1694)

Unknown directive type "data".

.. data:: version

A string containing the version number of the Python interpreter plus additional information on the build number and compiler used. This string is displayed when the interactive interpreter is started. Do not extract version information out of it, rather, use :data:`version info` and the functions provided by the :mod:`platform` module.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1703)

Unknown directive type "data".

.. data:: api version

The C API version for this interpreter. Programmers may find this useful when debugging version conflicts between Python and extension modules.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpythonmain\Doc\library\[cpython-main][Doc][library]sys.rst, line 1709)

Unknown directive type "data".

.. data:: version info

A tuple containing the five components of the version number: *major*, *minor*, *micro*, *releaselevel*, and *serial*. All values except *releaselevel* are integers; the release level is ``'alpha'``, ``'beta'``, ``'candidate'``, or ``'final'``. The ``version_info`` value corresponding to the Python version 2.0 is ``(2, 0, 0, 'final', 0)``. The components can also be accessed by name, so ``sys.version_info[0]`` is equivalent to ``sys.version_info.major`` and so on.

.. versionchanged:: 3.1
Added named component attributes.

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Unknown directive type "data".

.. data:: warnoptions

This is an implementation detail of the warnings framework; do not modify this value. Refer to the :mod:`warnings` module for more information on the warnings framework.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main] [Doc] [library] sys.rst, line 1729)

Unknown directive type "data".

.. data:: winver

The version number used to form registry keys on Windows platforms. This is stored as string resource 1000 in the Python DLL. The value is normally the first three characters of :const:`version`. It is provided in the :mod:`sys` module for informational purposes; modifying this value has no effect on the registry keys used by Python.

.. availability:: Windows.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\library\[cpython-main][Doc][library]sys.rst, line 1740)

Unknown directive type "data".

 \dots data:: _xoptions

A dictionary of the various implementation-specific flags passed through the :option:`-X` command-line option. Option names are either mapped to their values, if given explicitly, or to :const:`True`. Example:

 \dots code-block:: shell-session

\$./python -Xpycache_prefix=some_path -Xdev
Python 3.2a3+ (py3k, Oct 16 2010, 20:14:50)
[GCC 4.4.3] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>> import sys
>>> sys._xoptions
{'pycache_prefix': 'some_path', 'dev': True}

.. impl-detail::

.. versionadded:: 3.2

Citations

