

Configure Python

Configure Options

List all `./configure` script options using:

```
./configure --help
```

See also the `:file:Misc/SpecialBuilds.txt` in the Python source distribution.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 14); [backlink](#)

Unknown interpreted text role "file".

General Options

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 19)

Unknown directive type "cmdoption".

```
.. cmdoption:: --enable-loadable-sqlite-extensions

    Support loadable extensions in the :mod:`_sqlite` extension module (default
    is no).

    See the :meth:`sqlite3.Connection.enable_load_extension` method of the
    :mod:`sqlite3` module.

.. versionadded:: 3.6
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 29)

Unknown directive type "cmdoption".

```
.. cmdoption:: --disable-ipv6

    Disable IPv6 support (enabled by default if supported), see the
    :mod:`socket` module.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 34)

Unknown directive type "cmdoption".

```
.. cmdoption:: --enable-big-digits=[15|30]

    Define the size in bits of Python :class:`int` digits: 15 or 30 bits.

    By default, the digit size is 30.

    Define the ``PYLONG_BITS_IN_DIGIT`` to ``15`` or ``30``.

    See :data:`sys.int_info.bits_per_digit <sys.int_info>`.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 44)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-cxx-main
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 45)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-cxx-main=COMPILER
```

Compile the Python ``main()`` function and link Python executable with C++ compiler: ``\$CXX``, or *COMPILER* if specified.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 50)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-suffix=SUFFIX
```

Set the Python executable suffix to *SUFFIX*.

The default suffix is ``.exe`` on Windows and macOS (``python.exe`` executable), ``.js`` on Emscripten node, ``.html`` on Emscripten browser, ``.wasm`` on WASI, and an empty string on other platforms (``python`` executable).

```
.. versionchanged:: 3.11
```

The default suffix on WASM platform is one of ``.js``, ``.html`` or ``.wasm``.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 63)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-tzpath=<list of absolute paths separated by pathsep>
```

Select the default time zone search path for :data:`zoneinfo.TZPATH`. See the :ref:`Compile-time configuration <zoneinfo_data_compile_time_config>` of the :mod:`zoneinfo` module.

Default: ``/usr/share/zoneinfo:/usr/lib/zoneinfo:/usr/share/lib/zoneinfo:/etc/zoneinfo``.

See :data:`os.pathsep` path separator.

```
.. versionadded:: 3.9
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 75)

Unknown directive type "cmdoption".

```
.. cmdoption:: --without-decimal-contextvar
```

Build the ``decimal`` extension module using a thread-local context rather than a coroutine-local context (default), see the :mod:`decimal` module.

See :data:`decimal.HAVE_CONTEXTVAR` and the :mod:`contextvars` module.

```
.. versionadded:: 3.9
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 84)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-dbmliborder=<list of backend names>
```

Override order to check db backends for the :mod:`dbm` module

A valid value is a colon (``:```) separated string with the backend names:

```
* ``ndbm``;  
* ``gdbm``;  
* ``bdb``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 94)

Unknown directive type "cmdoption".

```
.. cmdoption:: --without-c-locale-coercion

    Disable C locale coercion to a UTF-8 based locale (enabled by default).

    Don't define the ``PY_COERCE_C_LOCALE`` macro.

    See :envvar:`PYTHONCOERCECLOCALE` and the :pep:`538`.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 102)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-platlibdir=DIRNAME

    Python library directory name (default is ``lib``).

    Fedora and SuSE use ``lib64`` on 64-bit platforms.

    See :data:`sys.platlibdir`.

    .. versionadded:: 3.9
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 112)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-wheel-pkg-dir=PATH

    Directory of wheel packages used by the :mod:`ensurepip` module
    (none by default).

    Some Linux distribution packaging policies recommend against bundling
    dependencies. For example, Fedora installs wheel packages in the
    ``/usr/share/python-wheels/`` directory and don't install the
    :mod:`ensurepip._bundled` package.

    .. versionadded:: 3.10
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 124)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-pkg-config=[check|yes|no]

    Whether configure should use :program:`pkg-config` to detect build
    dependencies.

    * ``check`` (default): :program:`pkg-config` is optional
    * ``yes``: :program:`pkg-config` is mandatory
    * ``no``: configure does not use :program:`pkg-config` even when present

    .. versionadded:: 3.11
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 135)

Unknown directive type "cmdoption".

```
.. cmdoption:: --enable-pystats

    Turn on internal statistics gathering.

    The statistics will be dumped to a arbitrary (probably unique) file in
    ``/tmp/py_stats/``, or ``C:\temp\py_stats`` on Windows.
```

```
Use ``Tools//summarize_stats.py`` to read the stats.  
.. versionadded:: 3.11
```

WebAssembly Options

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 149)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-emscripten-target=[browser|node]  
  
Set build flavor for ``wasm32-emscripten``.  
  
* ``browser`` (default): preload minimal stdlib, default MEMFS.  
* ``node``: NODERAWFS and pthread support.  
  
.. versionadded:: 3.11
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 158)

Unknown directive type "cmdoption".

```
.. cmdoption:: --enable-wasm-dynamic-linking  
  
Turn on dynamic linking support for WASM.  
  
Dynamic linking enables ``dlopen``. File size of the executable  
increases due to limited dead code elimination and additional features.  
  
.. versionadded:: 3.11
```

Install Options

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 171)

Unknown directive type "cmdoption".

```
.. cmdoption:: --disable-test-modules  
  
Don't build nor install test modules, like the :mod:`test` package or the  
:mod:`_testcapi` extension module (built and installed by default).  
  
.. versionadded:: 3.10
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 178)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-ensurepip=[upgrade|install|no]  
  
Select the :mod:`ensurepip` command run on Python installation:  
  
* ``upgrade`` (default): run ``python -m ensurepip --altinstall --upgrade``  
  command.  
* ``install``: run ``python -m ensurepip --altinstall`` command;  
* ``no``: don't run ensurepip;  
  
.. versionadded:: 3.6
```

Performance options

Configuring Python using `--enable-optimizations --with-lto` (PGO + LTO) is recommended for best performance.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 196)

Unknown directive type "cmdoption".

```
.. cmdoption:: --enable-optimizations
```

Enable Profile Guided Optimization (PGO) using :envvar:`PROFILE_TASK` (disabled by default).

The C compiler Clang requires ``llvm-profdata`` program for PGO. On macOS, GCC also requires it: GCC is just an alias to Clang on macOS.

Disable also semantic interposition in libpython if ``--enable-shared`` and GCC is used: add ``-fno-semantic-interposition`` to the compiler and linker flags.

```
.. versionadded:: 3.6
```

```
.. versionchanged:: 3.10
   Use ``-fno-semantic-interposition`` on GCC.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 213)

Unknown directive type "envvar".

```
.. envvar:: PROFILE_TASK
```

Environment variable used in the Makefile: Python command line arguments for the PGO generation task.

Default: ``-m test --pgo --timeout=\$(TESTTIMEOUT)``.

```
.. versionadded:: 3.8
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 222)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-lto=[full|thin|no|yes]
```

Enable Link Time Optimization (LTO) in any build (disabled by default).

The C compiler Clang requires ``llvm-ar`` for LTO (``ar`` on macOS), as well as an LTO-aware linker (``ld.gold`` or ``lld``).

```
.. versionadded:: 3.6
```

```
.. versionadded:: 3.11
   To use ThinLTO feature, use ``--with-lto=thin`` on Clang.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 234)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-computed-gotos
```

Enable computed gotos in evaluation loop (enabled by default on supported compilers).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 239)

Unknown directive type "cmdoption".

```
.. cmdoption:: --without-pymalloc
```

Disable the specialized Python memory allocator :ref:`pymalloc <pymalloc>` (enabled by default).

See also :envvar:`PYTHONMALLOC` environment variable.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 246)

Unknown directive type "cmdoption".

```
.. cmdoption:: --without-doc-strings
```

Disable static documentation strings to reduce the memory footprint (enabled by default). Documentation strings defined in Python are not affected.

Don't define the ``WITH_DOC_STRINGS`` macro.

See the ``PyDoc_STRVAR()`` macro.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 255)

Unknown directive type "cmdoption".

```
.. cmdoption:: --enable-profiling
```

Enable C-level code profiling with ``gprof`` (disabled by default).

Python Debug Build

A debug build is Python built with the :option:`--with-pydebug` configure option.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 265); [backlink](#)

Unknown interpreted text role "option".

Effects of a debug build:

- Display all warnings by default: the list of default warning filters is empty in the :mod:`warnings` module.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 270); [backlink](#)

Unknown interpreted text role "mod".

- Add d to :data:`sys.abiflags`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 272); [backlink](#)

Unknown interpreted text role "data".

- Add :func:`sys.gettotalrefcount` function.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 273); [backlink](#)

Unknown interpreted text role "func".

- Add :option:`-X showrefcount <-X>` command line option.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 274); [backlink](#)

Unknown interpreted text role "option".

- Add `:envvar:`PYTHONTHREADDEBUG`` environment variable.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 275); [backlink](#)

Unknown interpreted text role "envvar".

- Add support for the `__ltrace__` variable: enable low-level tracing in the bytecode evaluation loop if the variable is defined.
- Install `:ref:`debug hooks on memory allocators <default-memory-allocators>`` to detect buffer overflow and other memory errors.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 278); [backlink](#)

Unknown interpreted text role "ref".

- Define `Py_DEBUG` and `Py_REF_DEBUG` macros.
- Add runtime checks: code surrounded by `#ifdef Py_DEBUG` and `#endif`. Enable `assert(...)` and `_PyObject_ASSERT(...)` assertions: don't set the `NDEBUG` macro (see also the `:option:`--with-assertions`` configure option).
Main runtime checks:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 281); [backlink](#)

Unknown interpreted text role "option".

- Add sanity checks on the function arguments.
- Unicode and int objects are created with their memory filled with a pattern to detect usage of uninitialized objects.
- Ensure that functions which can clear or replace the current exception are not called with an exception raised.
- The garbage collector (`:func:`gc.collect`` function) runs some basic checks on objects consistency.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 291); [backlink](#)

Unknown interpreted text role "func".

- The `:c:macro:`Py_SAFE_DOWNCAST`` macro checks for integer underflow and overflow when downcasting from wide types to narrow types.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 293); [backlink](#)

Unknown interpreted text role "c:macro".

See also the `:ref:`Python Development Mode <devmode>`` and the `:option:`--with-trace-refs`` configure option.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 296); [backlink](#)

Unknown interpreted text role "ref".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 296); [backlink](#)

Unknown interpreted text role "option".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 299)

Unknown directive type "versionchanged".

```
.. versionchanged:: 3.8
   Release builds and debug builds are now ABI compatible: defining the
   ``Py_DEBUG`` macro no longer implies the ``Py_TRACE_REFS`` macro (see the
   :option:``--with-trace-refs`` option), which introduces the only ABI
   incompatibility.
```

Debug options

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 309)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-pydebug

   :ref:`Build Python in debug mode <debug-build>`: define the ``Py_DEBUG``
   macro (disabled by default).
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 314)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-trace-refs

   Enable tracing references for debugging purpose (disabled by default).

   Effects:

   * Define the ``Py_TRACE_REFS`` macro.
   * Add :func:`sys.getobjects` function.
   * Add :envvar:`PYTHONDUMPREFS` environment variable.

   This build is not ABI compatible with release build (default build) or debug
   build (``Py_DEBUG`` and ``Py_REF_DEBUG`` macros).

.. versionadded:: 3.8
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 329)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-assertions

   Build with C assertions enabled (default is no): ``assert(...);`` and
   ``PyObject_ASSERT(...);``.

   If set, the ``NDEBUG`` macro is not defined in the :envvar:`OPT` compiler
   variable.

   See also the :option:``--with-pydebug`` option (:ref:`debug build
   <debug-build>`) which also enables assertions.

.. versionadded:: 3.6
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 342)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-valgrind

   Enable Valgrind support (default is no).
```


System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 346)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-dtrace

    Enable DTrace support (default is no).

    See :ref:`Instrumenting CPython with DTrace and SystemTap
    <instrumentation>`.

.. versionadded:: 3.6
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 355)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-address-sanitizer

    Enable AddressSanitizer memory error detector, ``asan`` (default is no).

.. versionadded:: 3.6
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 361)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-memory-sanitizer

    Enable MemorySanitizer allocation error detector, ``msan`` (default is no).

.. versionadded:: 3.6
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 367)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-undefined-behavior-sanitizer

    Enable UndefinedBehaviorSanitizer undefined behaviour detector, ``ubsan``
    (default is no).

.. versionadded:: 3.6
```

Linker options

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 378)

Unknown directive type "cmdoption".

```
.. cmdoption:: --enable-shared

    Enable building a shared Python library: ``libpython`` (default is no).
```

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

Unknown directive type "cmdoption".

```
.. cmdoption:: --without-static-libpython

    Do not build ``libpythonMAJOR.MINOR.a`` and do not install ``python.o``
    (built and enabled by default).
```

```
.. versionadded:: 3.10
```

Libraries options

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\ [cpython-main] [Doc] [using] configure.rst, line 393)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-libs='lib1 ...'
```

Link against additional libraries (default is no).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\ [cpython-main] [Doc] [using] configure.rst, line 397)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-system-expat
```

Build the :mod:`pyexpat` module using an installed ``expat`` library (default is no).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\ [cpython-main] [Doc] [using] configure.rst, line 402)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-system-ffi
```

Build the :mod:`_ctypes` extension module using an installed ``ffi`` library, see the :mod:`ctypes` module (default is system-dependent).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\ [cpython-main] [Doc] [using] configure.rst, line 407)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-system-libmpdec
```

Build the ``_decimal`` extension module using an installed ``mpdec`` library, see the :mod:`decimal` module (default is no).

```
.. versionadded:: 3.3
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\ [cpython-main] [Doc] [using] configure.rst, line 414)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-readline=editline
```

Use ``editline`` library for backend of the :mod:`readline` module.

Define the ``WITH_EDITLINE`` macro.

```
.. versionadded:: 3.10
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\ [cpython-main] [Doc] [using] configure.rst, line 422)

Unknown directive type "cmdoption".

```
.. cmdoption:: --without-readline
```

Don't build the :mod:`readline` module (built by default).

Don't define the ``HAVE_LIBREADLINE`` macro.

```
.. versionadded:: 3.10
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 430)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-libm=STRING
```

Override ``libm`` math library to *STRING* (default is system-dependent).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 434)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-libc=STRING
```

Override ``libc`` C library to *STRING* (default is system-dependent).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 438)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-openssl=DIR
```

Root of the OpenSSL directory.

```
.. versionadded:: 3.7
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 444)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-openssl-rpath=[no|auto|DIR]
```

Set runtime library directory (rpath) for OpenSSL libraries:

```
* ``no`` (default): don't set rpath;  
* ``auto``: auto-detect rpath from :option:`--with-openssl` and  
  ``pkg-config``;  
* *DIR*: set an explicit rpath.
```

```
.. versionadded:: 3.10
```

Security Options

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 459)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-hash-algorithm=[fnv|siphash13|siphash24]
```

Select hash algorithm for use in ``Python/pyhash.c``:

```
* ``siphash13`` (default);  
* ``siphash24``;  
* ``fnv``.
```

```
.. versionadded:: 3.4
```

```
.. versionadded:: 3.11
```

``siphash13`` is added and it is the new default.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 472)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-builtin-hashlib-hashes=md5,sha1,sha256,sha512,sha3,blake2

Built-in hash modules:

* ``md5``;
* ``sha1``;
* ``sha256``;
* ``sha512``;
* ``sha3`` (with shake);
* ``blake2``.

.. versionadded:: 3.9
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 485)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-ssl-default-suites=[python|openssl|STRING]

Override the OpenSSL default cipher suites string:

* ``python`` (default): use Python's preferred selection;
* ``openssl``: leave OpenSSL's defaults untouched;
* *STRING*: use a custom string

See the :mod:`ssl` module.

.. versionadded:: 3.7

.. versionchanged:: 3.10

The settings ``python`` and *STRING* also set TLS 1.2 as minimum
protocol version.
```

macOS Options

See Mac/README.rst.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 507)

Unknown directive type "cmdoption".

```
.. cmdoption:: --enable-universalsdk
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 508)

Unknown directive type "cmdoption".

```
.. cmdoption:: --enable-universalsdk=SDKDIR

Create a universal binary build. *SDKDIR* specifies which macOS SDK should
be used to perform the build (default is no).
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 513)

Unknown directive type "cmdoption".

```
.. cmdoption:: --enable-framework
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 514)

Unknown directive type "cmdoption".

```
.. cmdoption:: --enable-framework=INSTALLDIR
```

Create a Python.framework rather than a traditional Unix install. Optional *INSTALLDIR* specifies the installation path (default is no).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 519)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-universal-archs=ARCH
```

Specify the kind of universal binary that should be created. This option is only valid when :option:`--enable-universalsdk` is set.

Options:

```
* ``universal2``;  
* ``32-bit``;  
* ``64-bit``;  
* ``3-way``;  
* ``intel``;  
* ``intel-32``;  
* ``intel-64``;  
* ``all``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 535)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-framework-name=FRAMEWORK
```

Specify the name for the python framework on macOS only valid when :option:`--enable-framework` is set (default: ``Python``).

Cross Compiling Options

Cross compiling, also known as cross building, can be used to build Python for another CPU architecture or platform. Cross compiling requires a Python interpreter for the build platform. The version of the build Python must match the version of the cross compiled host Python.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 549)

Unknown directive type "cmdoption".

```
.. cmdoption:: --build=BUILD
```

configure for building on BUILD, usually guessed by :program:`config.guess`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 553)

Unknown directive type "cmdoption".

```
.. cmdoption:: --host=HOST
```

cross-compile to build programs to run on HOST (target platform)

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 557)

Unknown directive type "cmdoption".

```
.. cmdoption:: --with-build-python=path/to/python
```

```
path to build ``python`` binary for cross compiling

.. versionadded:: 3.11
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 563)

Unknown directive type "cmdoption".

```
.. cmdoption:: CONFIG_SITE=file
```

An environment variable that points to a file with configure overrides.

Example `*config.site*` file::

```
# config.site-aarch64
ac_cv_buggy_getaddrinfo=no
ac_cv_file__dev_ptmx=yes
ac_cv_file__dev_ptc=no
```

Cross compiling example:

```
CONFIG_SITE=config.site-aarch64 ../configure \
--build=x86_64-pc-linux-gnu \
--host=aarch64-unknown-linux-gnu \
--with-build-python=../x86_64/python
```

Python Build System

Main files of the build system

- `:file:'configure.ac'` => `:file:'configure'`;

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 589);
[backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 589);
[backlink](#)

Unknown interpreted text role "file".

- `:file:'Makefile.pre.in'` => `:file:'Makefile'` (created by `:file:'configure'`);

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 590);
[backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 590);
[backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 590);
[backlink](#)

Unknown interpreted text role "file".

- `:file:'pyconfig.h'` (created by `:file:'configure'`);

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 591); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 591); [backlink](#)

Unknown interpreted text role "file".

- `:file:'Modules/Setup'`: C extensions built by the Makefile using `:file:'Module/makesetup'` shell script;

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 592); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 592); [backlink](#)

Unknown interpreted text role "file".

- `:file:'setup.py'`: C extensions built using the `:mod:'distutils'` module.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 594); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 594); [backlink](#)

Unknown interpreted text role "mod".

Main build steps

- C files (.c) are built as object files (.o).
- A static libpython library (.a) is created from objects files.
- python.o and the static libpython library are linked into the final python program.
- C extensions are built by the Makefile (see `:file:'Modules/Setup'`) and python setup.py build.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 603); [backlink](#)

Unknown interpreted text role "file".

Main Makefile targets

- make: Build Python with the standard library.
- make platform:: build the python program, but don't build the standard library extension modules.
- make profile-opt: build Python using Profile Guided Optimization (PGO). You can use the configure `:option:'--enable-optimizations'` option to make this the default target of the make command (make all or just make).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 612); [backlink](#)

Unknown interpreted text role "option".

- `make buildbottest`: Build Python and run the Python test suite, the same way than buildbots test Python. Set `TESTTIMEOUT` variable (in seconds) to change the test timeout (1200 by default: 20 minutes).
- `make install`: Build and install Python.
- `make regen-all`: Regenerate (almost) all generated files; `make regen-stdlib-module-names` and `autoconf` must be run separately for the remaining generated files.
- `make clean`: Remove built files.
- `make distclean`: Same than `make clean`, but remove also files created by the configure script.

C extensions

Some C extensions are built as built-in modules, like the `sys` module. They are built with the `Py_BUILD_CORE_BUILTIN` macro defined. Built-in modules have no `__file__` attribute:

```
>>> import sys
>>> sys
<module 'sys' (built-in)>
>>> sys.__file__
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: module 'sys' has no attribute '__file__'
```

Other C extensions are built as dynamic libraries, like the `_asyncio` module. They are built with the `Py_BUILD_CORE_MODULE` macro defined. Example on Linux x86-64:

```
>>> import _asyncio
>>> _asyncio
<module '_asyncio' from '/usr/lib64/python3.9/lib-dynload/_asyncio.cpython-39-x86_64-linux-gnu.so'>
>>> _asyncio.__file__
'/usr/lib64/python3.9/lib-dynload/_asyncio.cpython-39-x86_64-linux-gnu.so'
```

`:file:'Modules/Setup'` is used to generate Makefile targets to build C extensions. At the beginning of the files, C extensions are built as built-in modules. Extensions defined after the `*shared*` marker are built as dynamic libraries.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 652); [backlink](#)

Unknown interpreted text role "file".

The `:file:'setup.py'` script only builds C extensions as shared libraries using the `:mod:'distutils'` module.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 656); [backlink](#)

Unknown interpreted text role "file".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 656); [backlink](#)

Unknown interpreted text role "mod".

The `:c:macro:'PyAPI_FUNC()'`, `:c:macro:'PyAPI_API()'` and `:c:macro:'PyMODINIT_FUNC()'` macros of `:file:'Include/pyport.h'` are defined differently depending if the `Py_BUILD_CORE_MODULE` macro is defined:

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 659); [backlink](#)

Unknown interpreted text role "c:macro".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 659); [backlink](#)

Unknown interpreted text role "c:macro".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 659); [backlink](#)

Unknown interpreted text role "c:macro".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 659); [backlink](#)

Unknown interpreted text role "file".

- Use `Py_EXPORTED_SYMBOL` if the `Py_BUILD_CORE_MODULE` is defined
- Use `Py_IMPORTED_SYMBOL` otherwise.

If the `Py_BUILD_CORE_BUILTIN` macro is used by mistake on a C extension built as a shared library, its `PyInit_xxx()` function is not exported, causing an `:exc:ImportError` on import.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 666); [backlink](#)

Unknown interpreted text role "exc".

Compiler and linker flags

Options set by the `./configure` script and environment variables and used by Makefile.

Preprocessor flags

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 680)

Unknown directive type "envvar".

```
.. envvar:: CONFIGURE_CPPFLAGS
```

Value of `:envvar:CPPFLAGS` variable passed to the ```./configure``` script.

```
.. versionadded:: 3.6
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 686)

Unknown directive type "envvar".

```
.. envvar:: CPPFLAGS
```

(Objective) C/C++ preprocessor flags, e.g. ```-I<include dir>``` if you have headers in a nonstandard directory ```<include dir>```.

Both `:envvar:CPPFLAGS` and `:envvar:LDFLAGS` need to contain the shell's value for `setup.py` to be able to build extension modules using the directories specified in the environment variables.

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

Unknown directive type "envvar".

```
.. envvar:: BASECPPFLAGS
```

```
.. versionadded:: 3.4
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 699)

Unknown directive type "envvar".

```
.. envvar:: PY_CPPFLAGS
```

Extra preprocessor flags added for building the interpreter object files.

Default: ```$(BASECPPFLAGS) -I. -I$(srcdir)/Include $(CONFIGURE_CPPFLAGS) $(CPPFLAGS)```.

```
.. versionadded:: 3.2
```

Compiler flags

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

Unknown directive type "envvar".

```
.. envvar:: CC

C compiler command.

Example: ``gcc -pthread``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 716)

Unknown directive type "envvar".

```
.. envvar:: MAINCC

C compiler command used to build the ``main()`` function of programs like
``python``.

Variable set by the :option:``--with-cxx-main`` option of the configure
script.

Default: ``$(CC)``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 726)

Unknown directive type "envvar".

```
.. envvar:: CXX

C++ compiler command.

Used if the :option:``--with-cxx-main`` option is used.

Example: ``g++ -pthread``.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 734)

Unknown directive type "envvar".

```
.. envvar:: CFLAGS

C compiler flags.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 738)

Unknown directive type "envvar".

```
.. envvar:: CFLAGS_NODIST

:envvar:``CFLAGS_NODIST`` is used for building the interpreter and stdlib C
extensions. Use it when a compiler flag should *not* be part of the
distutils :envvar:``CFLAGS`` once Python is installed (:issue:`21121`).

.. versionadded:: 3.5
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\cpython-main [Doc] [using] configure.rst, line 746)

Unknown directive type "envvar".

```
.. envvar:: EXTRA_CFLAGS

Extra C compiler flags.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 750)

Unknown directive type "envvar".

```
.. envvar:: CONFIGURE_CFLAGS

Value of :envvar:`CFLAGS` variable passed to the ``./configure``
script.

.. versionadded:: 3.2
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 757)

Unknown directive type "envvar".

```
.. envvar:: CONFIGURE_CFLAGS_NODIST

Value of :envvar:`CFLAGS_NODIST` variable passed to the ``./configure``
script.

.. versionadded:: 3.5
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 764)

Unknown directive type "envvar".

```
.. envvar:: BASECFLAGS

Base compiler flags.
```

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

Unknown directive type "envvar".

```
.. envvar:: OPT

Optimization flags.
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 772)

Unknown directive type "envvar".

```
.. envvar:: CFLAGS_ALIASING

Strict or non-strict aliasing flags used to compile ``Python/dtoa.c``.

.. versionadded:: 3.7
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 778)

Unknown directive type "envvar".

```
.. envvar:: CCSHARED

Compiler flags used to build a shared library.

For example, ``-fPIC`` is used on Linux and on BSD.
```

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

Unknown directive type "envvar".

```
.. envvar:: CFLAGSFORSHARED
```

Extra C flags added for building the interpreter object files.

Default: ``\$(CCSHARED)`` when :option:`--enable-shared` is used, or an empty string otherwise.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 791)

Unknown directive type "envvar".

```
.. envvar:: PY_CFLAGS
```

Default: ``\$(BASECFLAGS) \$(OPT) \$(CONFIGURE_CFLAGS) \$(CFLAGS) \$(EXTRA_CFLAGS)``.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 795)

Unknown directive type "envvar".

```
.. envvar:: PY_CFLAGS_NODIST
```

Default: ``\$(CONFIGURE_CFLAGS_NODIST) \$(CFLAGS_NODIST) -I\$(srcdir)/Include/internal``.

```
.. versionadded:: 3.5
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 801)

Unknown directive type "envvar".

```
.. envvar:: PY_STDMODULE_CFLAGS
```

C flags used for building the interpreter object files.

Default: ``\$(PY_CFLAGS) \$(PY_CFLAGS_NODIST) \$(PY_CPPFLAGS) \$(CFLAGSFORSHARED)``.

```
.. versionadded:: 3.7
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 809)

Unknown directive type "envvar".

```
.. envvar:: PY_CORE_CFLAGS
```

Default: ``\$(PY_STDMODULE_CFLAGS) -DPy_BUILD_CORE``.

```
.. versionadded:: 3.2
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 815)

Unknown directive type "envvar".

```
.. envvar:: PY_BUILTIN_MODULE_CFLAGS
```

Compiler flags to build a standard library extension module as a built-in module, like the :mod:`posix` module.

Default: ``\$(PY_STDMODULE_CFLAGS) -DPy_BUILD_CORE_BUILTIN``.

```
.. versionadded:: 3.8
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 824)

Unknown directive type "envvar".

```
.. envvar:: PURIFY
```

Purify command. Purify is a memory debugger program.

Default: empty string (not used).

Linker flags

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 834)

Unknown directive type "envvar".

```
.. envvar:: LINKCC
```

Linker command used to build programs like ``python`` and ``_testembed``.

Default: ``\$(PURIFY) \$(MAINCC)``.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 840)

Unknown directive type "envvar".

```
.. envvar:: CONFIGURE_LDFLAGS
```

Value of :envvar:`LDFLAGS` variable passed to the ``./configure`` script.

Avoid assigning :envvar:`CFLAGS`, :envvar:`LDFLAGS`, etc. so users can use them on the command line to append to these values without stomping the pre-set values.

```
.. versionadded:: 3.2
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 850)

Unknown directive type "envvar".

```
.. envvar:: LDFLAGS_NODIST
```

:envvar:`LDFLAGS_NODIST` is used in the same manner as :envvar:`CFLAGS_NODIST`. Use it when a linker flag should *not* be part of the distutils :envvar:`LDFLAGS` once Python is installed (:issue:`35257`).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 856)

Unknown directive type "envvar".

```
.. envvar:: CONFIGURE_LDFLAGS_NODIST
```

Value of :envvar:`LDFLAGS_NODIST` variable passed to the ``./configure`` script.

```
.. versionadded:: 3.8
```

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 863)

Unknown directive type "envvar".

```
.. envvar:: LDFLAGS
```

Linker flags, e.g. ``-L<lib dir>`` if you have libraries in a nonstandard directory ``<lib dir>``.

Both :envvar:`CPPFLAGS` and :envvar:`LDFLAGS` need to contain the shell's value for setup.py to be able to build extension modules using the directories specified in the environment variables.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 872)

Unknown directive type "envvar".

```
.. envvar:: LIBS
```

Linker flags to pass libraries to the linker when linking the Python executable.

Example: ``-lrt``.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 879)

Unknown directive type "envvar".

```
.. envvar:: LDSHARED
```

Command to build a shared library.

Default: ``@LDSHARED@ \$(PY_LDFLAGS)``.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 885)

Unknown directive type "envvar".

```
.. envvar:: BLDSHARED
```

Command to build ``libpython`` shared library.

Default: ``@BLDSHARED@ \$(PY_CORE_LDFLAGS)``.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 891)

Unknown directive type "envvar".

```
.. envvar:: PY_LDFLAGS
```

Default: ``\$(CONFIGURE_LDFLAGS) \$(LDFLAGS)``.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Doc\using\[cpython-main] [Doc] [using] configure.rst, line 895)

Unknown directive type "envvar".

```
.. envvar:: PY_LDFLAGS_NODIST
```

Default: ``\$(CONFIGURE_LDFLAGS_NODIST) \$(LDFLAGS_NODIST)``.

```
.. versionadded:: 3.8
```

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

Unknown directive type "envvar".

```
.. envvar:: PY_CORE_LDFLAGS
```

Linker flags used for building the interpreter object files.

.. versionadded:: 3.8