Fix undefined behavior in Objects/genericaliasobject.c.

Fix the column offsets for f-strings mod: ast' nodes surrounded by parentheses and for nodes that spawn multiple lines. Patch by Pablo Galindo.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 16); backlink

Unknown interpreted text role 'mod'.

Fix regression where a single parenthesized starred expression was a valid assignment target.

Improve the error message for failed writes/deletes to property objects. When possible, the attribute name is now shown. Patch provided by Yurii Karabas.

Make the type attribute lookup cache per-interpreter. Patch by Victor Stinner.

Jumps to jumps are not eliminated when it would break PEP 626.

Make sure that the f_{lasti} and f_{lineno} attributes of a frame are set correctly when an exception is raised or re-raised. Required for PEP 626.

The coding cookie (ex: # coding: latin1) is now ignored in the command passed to the contion: c' command line option. Patch by Victor Stinner.

 $System\ Message: ERROR/3\ (\texttt{D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d]\ [\texttt{Cpython-main}]\ [\texttt{Misc}]\ [\texttt{NEWS.d]\ 3.10.0a4.rst, line\ 77);}\ \textit{backlink}$

Unknown interpreted text role "option".

Improve error location in expressions that contain assignments. Patch by Pablo Galindo and Lysandros Nikolaou.

Remove jump commands made redundant by the deletion of unreachable bytecode blocks

Make the <u>mod:'atexit'</u> module state per-interpreter. It is now safe have more than one <u>mod:'atexit'</u> module instance. Patch by Dong-hee Na and Victor Stinner.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 107); backlink

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 107); backlink

Unknown interpreted text role "mod".

Fix encoding name when running a .pyc file on Windows: :c:func:`PyRun_SimpleFileExFlags()` now uses the correct encoding to decode the filename.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 118); backlink

Unknown interpreted text role "c:func".

The __args__ of the parameterized generics for :data: typing Callable and :class: collections.abc.Callable are now consistent. The __args__ for :class: collections.abc.Callable are now flattened while :data: typing.Callable is have not changed. To allow this change, :class: types.GenericAlias can now be subclassed and collections.abc.Callable's __class_getitem__ will now return a subclass of types.GenericAlias. Tests for typing were also updated to not subclass things like Callable [..., T] as that is not a valid base class. Finally, both Callables no longer validate their argtypes, in Callable [argtypes], resulttype] to prepare for PEP 612. Patch by Ken Jin.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 129); backlink

Unknown interpreted text role "data".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 129); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 129); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 129); backlink

Unknown interpreted text role "data".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 129); backlink

Unknown interpreted text role "class".

Convert functools module to use :c:func:`PyType_FromModuleAndSpec`.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 148); backlink

Unknown interpreted text role "c:func".

Convert mod: array to use heap types, and establish module state for these.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 157); backlink

Unknown interpreted text role "mod".

Fix random.Random() seeding.

Port the <u>mod</u>' extension module to multi-phase initialization (PEP 489).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 176); backlink

Unknown interpreted text role "mod".

Make the Unicode dictionary of interned strings compatible with subinterpreters. Patch by Victor Stinner.

Make :c:func: PyUnicode_FromId' function compatible with subinterpreters. Each interpreter now has an array of identifier objects (interned strings decoded from UTF-8). Patch by Victor Stinner.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 196); backlink

Unknown interpreted text role "c:func".

Handle empty string in variable executable in platform libc ver()

randrange() now raises a TypeError when step is specified without a stop argument. Formerly, it silently ignored the step argument.

Fixed equality comparison of class: 'tkinter. Variable' and class: 'tkinter. font. Font'. Objects which belong to different Tcl interpreters are now always different, even if they have the same name.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 226); backlink

Unknown interpreted text role "class".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 226); backlink

Unknown interpreted text role "class".

Configure LMTP Unix-domain socket to use socket global default timeout when a timeout is not explicitly provided.

Allow / character in username, password fields on PROXY envars.

fine: typing.get_args' and :func: typing.get_origin' now support PEP 604 union types and PEP 612 additions to Callable.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 256); backlink

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 256); backlink

Unknown interpreted text role "func".

.mod:'subprocess' extra_groups is now correctly passed into setgroups() system call.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 266); backlink

Unknown interpreted text role "mod".

EnumMeta. prepare now accepts **kwds to properly support init subclass

Add optional weights to statistics.harmonic mean().

When simple query dialogs (mod:'tkinter.simpledialog'), message boxes (mod:'tkinter.messagebox') or color choose dialog (mod:'tkinter.colorchooser') are created without arguments *master* and *parent*, and the default root window is not yet created, and 'finc:'~tkinter.NoDefaultRoot' was not called, a new temporal hidden root window will be created automatically. It will not be set as the default root window and will be destroyed right after closing the dialog window. It will help to use these simple dialog windows in programs which do not need other GUI.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 295); backlink

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 295); backlink

Unknown interpreted text role "mod".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 295); backlink

Unknown interpreted text role 'mod'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 295); backlink

Unknown interpreted text role "func".

Optimized :meth:'collections.deque.remove'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 312); backlink

Unknown interpreted text role "meth".

Added a root parameter to :func: 'tkinter.font.nametofont'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 321); backlink

Unknown interpreted text role "func".

mod: 'tkinter' supports now widgets with boolean value False.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 330); backlink

Unknown interpreted text role "mod".

Fixed range checks for color and pair numbers in :mod:'curses'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 339); backlink

Unknown interpreted text role "mod".

Improved placing of simple query windows in Tkinter (such as :func: tkinter.simpledialog.askinteger'). They are now centered at the center of the parent window if it is specified and shown, otherwise at the center of the screen.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 348); backlink

Unknown interpreted text role "func".

Argparse help no longer uses the confusing phrase, "optional arguments". It uses "options" instead.

Port the mod: thread' extension module to the multiphase initialization API (PEP 489) and convert its static types to heap types.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 370); backlink

Unknown interpreted text role "mod".

Fix crash in :func: 'tracemalloc. Traceback.__repr__' (regressed in Python 3.9).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 380); backlink

Unknown interpreted text role "func".

mod: 'tkinter' functions and constructors which need a default root window raise now :exc: 'RuntimeError' with descriptive message instead of obscure :exc: 'AttributeError' or :exc: 'NameError' if it is not created yet or cannot be created automatically.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 390); backlink

Unknown interpreted text role 'mod'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 390); backlink

Unknown interpreted text role "exc".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 390); backlink

Unknown interpreted text role "exc".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 390); backlink

Unknown interpreted text role "exc".

:func: atexit._run_exitfuncs` now logs callback exceptions using :data: sys.unraisablehook`, rather than logging them directly into :data: sys.stderr` and raise the last exception.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 402); backlink

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 402); backlink

Unknown interpreted text role "data".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 402); backlink

Unknown interpreted text role "data".

logging.disable will now validate the types and value of its parameter. It also now accepts strings representing the levels (as does loging.setLevel) instead of only the numerical values.

At Python exit, if a callback registered with :func: atexit.register` fails, its exception is now logged. Previously, only some exceptions were logged, and the last exception was always silently ignored.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 424); backlink

Unknown interpreted text role "func".

Fixed lib2to3.pgen2 to be able to parse PEP-570 positional only argument syntax.

In importlib.metadata: - EntryPoint objects now expose a .dist object referencing the Distribution when constructed from a Distribution. - Add support for package discovery under package normalization rules. - The object returned by metadata() now has a formally-defined protocol called PackageMetadata with declared support for the .get_all() method. - Synced with importlib_metadata 3.3.

A check is added against misspellings of autospect, auto_spec and set_spec being passed as arguments to patch, patch.object and create_autospec.

[tarfile] update nested exception raising to use from None or from e

Attribute Error for suspected misspellings of assertions on mocks are now pointing out that the cause are misspelled assertions and also what to do if the misspelling is actually an intended attribute name. The unittest mock document is also updated to reflect the current set of recognised misspellings.

Implemented PEP 612: added ParamSpec and Concatenate to :mod: typing'. Patch by Ken Jin.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 491); backlink

Unknown interpreted text role "mod".

StrEnum: fix generate next value to return a str

Define THREAD STACK SIZE for VxWorks.

[Enum] *EnumDict.update()* is now supported

Enum private names do not become members / do not generate errors -- they remain normal attributes

Enum: call init subclass after members have been added

:func: ast.literal_eval adds line number information (if available) in error message for malformed nodes.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 547); backlink

Unknown interpreted text role "func".

:func: random.sample no longer warns on a sequence which is also a set.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 557); backlink

Unknown interpreted text role "func".

:func: posixpath.expanduser` returns the input path unchanged if user home directory is None on VxWorks.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 566); backlink

Unknown interpreted text role "func".

Fix subprocess.check_output(..., input=None) behavior when text=True to be consistent with that of the documentation and universal newlines=True.

Fixed discrepancy between :mod:`traceback` and the interpreter in formatting of SyntaxError with lineno not set (:mod:`traceback` was changed to match interpreter).

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 586); backlink

Unknown interpreted text role 'mod'.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 586); backlink

Unknown interpreted text role "mod".

Raise :exc: OverflowError` instead of silent truncation in :meth: socket.ntohs` and :meth: socket.htons`. Silent truncation was deprecated in Python 3.7. Patch by Erlend E. Aasland

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 597); backlink

Unknown interpreted text role "exc".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 597); backlink

Unknown interpreted text role "meth".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 597); backlink

Unknown interpreted text role "meth".

Harmonized: func: random.randrange argument handling to match: func: range.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 608); backlink

Unknown interpreted text role "func".

 $System\ Message: ERROR/3\ (\texttt{D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main\]\ [Misc]\ [NEWS.d\] 3.10.0a4.rst, line\ 608); \\ \textit{backlink}$

Unknown interpreted text role "func".

• The integer test and conversion in randrange () now uses :func:'operator.index'.

 $System\ Message: ERROR/3\ (\texttt{D:\onboarding-resources}\) sample-onboarding-resources \) [NEWS.d]\ 3.10.0a4.rst, line\ 610); backlink$

Unknown interpreted text role "func".

- Non-integer arguments to randrange () are deprecated.
- The ValueError is deprecated in favor of a TypeError.
- It now runs a little faster than before.

(Contributed by Raymond Hettinger and Serhiy Storchaka.)

Restore compatibility for uname result around deepcopy and replace.

zipfile.Path.joinpath now accepts arbitrary arguments, same as pathlib.Path.joinpath.

Port the csv module to the multi-phase initialization API (PEP 489).

class: typing. TypedDict types created using the alternative call-style syntax now correctly respect the total keyword argument when setting their __required_keys__ and __optional_keys__ class attributes.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 653); backlink

Unknown interpreted text role "class".

Add globalns and localns parameters to the :func: inspect.signature and :meth: inspect. Signature from callable.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 664); backlink

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 664); backlink

Unknown interpreted text role 'meth'.

fix format() behavior for IntFlag

Ensure asyncio.wait for waits for task completion

Fixed bug where :mod: 'zipimporter' sometimes reports an incorrect cause of import errors.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 692); backlink

Unknown interpreted text role "mod".

Fix site and sysconfig modules for VxWorks RTOS which has no home directories.

Add :func: os.set_blocking() support for VxWorks RTOS.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 712); backlink

Unknown interpreted text role "func".

Lowered :class: tkinter.ttk.LabeledScale` dummy widget to prevent hiding part of the content label.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 721); backlink

Unknown interpreted text role "class".

Fixed memory leak in socketserver. Threading MixIn introduced in Python 3.7.

Fix initialization race condition in :func: `a85encode` and :func: `b85encode` in :mod: `base64`. Patch by Brandon Stansbury.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 741); backlink

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 741); backlink

Unknown interpreted text role "func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 741); backlink

Unknown interpreted text role "mod".

Add documentation for the :class: multiprocessing.pool. ThreadPool' class.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 751); backlink

Unknown interpreted text role "class".

Prominently feature listings from the glossary in documentation search results. Patch by Ammar Askar.

Update test untplib to use official group name of news.aioe.org for testing. Patch by Dong-hee Na.

Skip some asyncio tests on VxWorks.

Enhance test_select.test_select(): it now takes 500 milliseconds rather than 10 seconds. Use Python rather than a shell to make the test more portable.

Skip some tests in test_all_chown_common() on VxWorks.

Fix bytecode helper assertNotInBytecode.

Add more attribute checking in test_posix.py

Disable os.popen and impacted tests on VxWorks

Port test ssl and test uuid to VxWorks RTOS.

Fix builtin available check on older compilers. Patch by Joshua Root.

Added --disable-test-modules option to the configure script: don't build nor install test modules. Patch by Xavier de Gaye, Thomas Petazzoni and Peixing Xin.

Now all platforms use a value for the "EXT_SUFFIX" build variable derived from SOABI (for instance in freeBSD, "EXT_SUFFIX" is now ".cpython-310d.so" instead of ".so"). Previously only Linux, Mac and VxWorks were using a value for "EXT_SUFFIX" that included "SOABI".

Fix implicit function declarations in configure which could have resulted in incorrect configuration checks. Patch contributed by Joshua Root.

Enable libpython3.so for VxWorks.

Add fish shell support to macOS installer.

Update macOS installer build to use Tcl/Tk 8.6.11 (rc2, expected to be final release).

Update macOS installer build to use OpenSSL 1.1.1i.

Update macOS installer to use SQLite 3.34.0.

Fixed Python 3 compatibility issue with gdb/libpython.py handling of attribute dictionaries.

Fix freeze.py tool to use the prope config and library directories. Patch by Victor Stinner.

Export the :c:fine: Py_FrozenMain` function: fix a Python 3.9.0 regression. Python 3.9 uses -fvisibility=hidden and the function was not exported explicitly and so not exported.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 952); backlink

Unknown interpreted text role "c:func".

Remove the private :c:func: _Py_fopen `function which is no longer needed. Use :c:func: _Py_wfopen `or :c:func: _Py_fopen_obj `instead. Patch by Victor Stinner.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 963); backlink

Unknown interpreted text role "c:func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 963); backlink

Unknown interpreted text role "c:func".

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 963); backlink

Unknown interpreted text role "c:func".

Port :mod:'resource' extension module to module state

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\[cpython-main] [Misc] [NEWS.d]3.10.0a4.rst, line 974); backlink

Unknown interpreted text role "mod".

Update the xxlimited module to be a better example of how to use the limited C API.

Fix an alignment build warning/error in function PyVectorcall_Function(). Patch by Andreas Schneider, Antoine Pitrou and Petr Viktorin