Restored optimization of bytes.rfind() and bytearray.rfind() for single-byte argument on Linux.

Make PEP 448 dictionary evaluation more consistent.

Fix crash when set is mutated while being updated.

Fix crash when dict is mutated while being updated.

New approach for tokenizing async/await. As a consequence, it is now possible to have one-line 'async def foo(): await ..' functions.

Plug refleak on SyntaxError in function parameters annotations.

memoryview: Allow arbitrary formats when casting to bytes. Patch by Martin Panter.

rcompleter now prints a tab character instead of displaying possible completions for an empty word. Initial patch by Martin Sekera.

Fixed crashes in \_json functions called with arguments of inappropriate type.

shutil.copytree() now correctly handles symbolic links that point to directories. Patch by Eduardo Seabra and Thomas Kluyver.

Fixed segmentation fault when gc.collect() is called during constructing lru cache (C implementation).

Fix a regression in traceback.print\_exception(). If exc\_traceback is None we shouldn't print a traceback header like described in the documentation.

Random.setstate() now validates the value of state last element.

Fixed an issue that caused *inspect.getsource* to return incorrect results on nested functions.

Improve unittest docs. Patch from Martin Panter and evilzero.

Symbolic group references to open group in re patterns now are explicitly forbidden as well as numeric group references.

Fixed eq and ne methods of inspect classes.

Fixed regression in the timeit module with multiline setup.

unittest.mock.mock\_open().reset\_mock would recurse infinitely. Patch from Nicola Palumbo and Laurent De Buyst.

unittest.mock side\_effects can now be exceptions again. This was a regression vs Python 3.4. Patch from Ignacio Rossi

chunk.Chunk.read() now always returns bytes, not str.

Fixed reading out of the buffer in the re module.

tarfile now raises a ReadError if an archive is truncated inside a data segment.

SMTP.auth() and SMTP.login() now support RFC 4954's optional initial-response argument to the SMTP AUTH command.

Fix inspect.getsource() for 'async def' functions. Patch by Kai Groner.

ast.get docstring() for 'async def functions.

Update Windows builds and OS X 10.5 installer to use OpenSSL 1.0.2d.