Fix a crash in hamt.c caused by enabling GC tracking for an object that hadn't all of its fields set to NULL.

Fix a crash in Python initialization when parsing the command line options. Thanks Christoph Gohlke for the bug report and the fix!

Fixed reset of the SIGINT handler to SIG\_DFL on interpreter shutdown even when there was a custom handler set previously. Patch by Philipp Kerling.

Fix signed/unsigned comparison warning in pyhash.c.

Prevent site.main() exception if PYTHONSTARTUP is set. Patch by Steve Weber.

Datetime instance d with non-None tzinfo, but with d.tzinfo.utcoffset(d) returning None is now treated as naive by the astimezone() method.

Avoid race condition with debug logging

asyncio: Fix a race condition causing data loss on pause reading()/resume reading() when using the ProactorEventLoop.

Correct test for unid enc be availability in configure.ac. Patch by Michael Felt.

Add asyncio. Windows Selector Event Loop Policy and asyncio. Windows Proactor Event Loop Policy.

Update unicodedata's database to Unicode version 11.0.0.

improve base64 exception message for encoded inputs of invalid length

asyncio/start tls: Fix error message; cancel callbacks in case of an unhandled error; mark SSLTransport as closed if it is aborted.

The concatenation (+) and repetition (\*) sequence operations now raise :exc: `TypeError` instead of :exc: `SystemError` when performed on :class: `mmap.mmap` objects. Patch by Zackery Spytz.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\(cpython-main) (Misc) (NEWS.d) 3.7.0rc1.rst, line 132); 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) 3.7.0rc1.rst, line 132); 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) 3.7.0rc1.rst, line 132); backlink

Unknown interpreted text role "class".

asyncio/ssl: Fix AttributeError, increase default handshake timeout

Use a better regex when breaking usage into wrappable parts. Avoids bogus assertion errors from custom metavar strings.

Emit a deprecation warning for inspect. formatargspec

Clarified the relationship between PEP 538's PYTHONCOERCECLOCALE and PEP 540's PYTHONUTF8 mode.

Improve the documentation of :func: asyncio.open\_connection', :func: asyncio.start\_server' and their UNIX socket counterparts.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\cpython-main\Misc\NEWS.d\(cpython-main) (Misc) (NEWS.d) 3.7.0rc1.rst, line 181); 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) 3.7.0rc1.rst, line 181); backlink

Unknown interpreted text role "func".

Clarify meaning of CERT NONE, CERT OPTIONAL, and CERT REQUIRED flags for ssl.SSLContext.verify mode.

Move -Wstrict-prototypes option to CFLAGS\_NODIST from OPT. This option emitted annoying warnings when building extension modules written in C++.

Reduces maximum marshal recursion depth on release builds.

On Windows, add API call saying that tk scales for DPI. On Windows 8.1+ or 10, with DPI compatibility properties of the Python binary unchanged, and a monitor resolution greater than 96 DPI, this should make text and lines sharper. It should otherwise have no effect.

Clicking on a context line moves that line to the top of the editor window.

IDLE: Use read-only text widget for code context instead of label widget.

Scroll IDLE editor text by lines. Previously, the mouse wheel and scrollbar slider moved text by a fixed number of pixels, resulting in partial lines at the top of the editor box. The change also applies to the shell and grep output windows, but not to read-only text views.

Enable theme-specific color configuration for Code Context. Use the Highlights tab to see the setting for built-in themes or add settings to custom themes.

Display up to maxlines non-blank lines for Code Context. If there is no current context, show a single blank line.