LibreOffice - Bug fixing

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What does LibreOffice offer?

- OpenSource office suite (Writer, Calc, Impress, Draw, Math and Base)

- Cross-platform

- Number of languages: 104 including Czech

- Available on www.libreoffice.org

- LibreOffice Online has not yet been released.

History

- September 2010

- The Document Foundation vs Oracle corporation

- October 2010 – 33 OpenOffice developers left and join to The Document Foundation

OpenOffice developers + project Go-oo = LibreOffice

Under cover

- Number of programming languages: 30, mostly written in C++ (82%)

- LOC 7.3 Milion (19. 3. 2014)

- LGPLv3 with new contributions dual-licensed under MPL

Project organization

- The Document Foundation (Developers and volunteers)

- New version are released every six months. Than follow 6 or 7 patches.

- Bug Submission Assistant

- Mailinglist, IRC

IRC

- irc.freenode.net in the #libreoffice-dev channel (one chat for everyone – translators, developers, testers...)

My contribution

EasyHacks

- great starting points for new developers on the project

- useful code pointers as well as at least one expert who will be available to help you if you have questions.

Selected EasyHack:

- https://bugs.freedesktop.org/show_bug.cgi?id=39631 (add optimisation helpers)

- Translations from English to Czech

Bug 39631 - add optimisation helpers

- Goal: facilitate profiling of code

- GCC higher then version 2 provides following functions:

      __builtin_expect(x, y)

  - usage of profilers for branch prediction optimisation

      __attribute__ (("hot")) and __attribute__ (("cold"))

Hint that the marked function is "hot" and should be optimized more aggressively and/or placed near other "hot" functions (for cache locality).

Hint that the marked function is "cold" and should be optimized for size, predicted as unlikely for branch prediction, and/or placed near other "cold" functions (so other functions can have improved cache locality).

Thank you for your attention!