C++ Club Meeting Notes

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CLion 2018.2 EAP

Announcement

clangd as an additional (not you Windows!) C++ language engine

Visual Studio 2017 version 15.8 Preview 3

Announcement

- convert basic macros to constexpr
- experimental code analysis features
- ► Template IntelliSense
- clang-format
- improved CMake support
- C++ Quick Info Tooltips (show expanded macros)

What is a good Package Manager for C++?

Reddit thread

No matter which one you use, you'll probably be pretty disappointed.

std::variant Doesn't Let Me Sleep, by Pablo Arias (ht to Gergely Petrik)

- Post
- ► The most valuable values Juanpe Bolívar Meeting C++ 2017
- Overload: Build a Variant Visitor on the Fly
- ► folly/Overload.h

Raffle (C++17, ranges, asio, json)

Fetches the names of all RSVP members of a meetup event and randomly chooses The Raffle Winner.

- ▶ Code
- Reddit thread

Diego Franco - LauncherOne rocket with C++ engine - CppCon 2017



Diego Franco - LauncherOne rocket with C++ engine - CppCon 2017 (cont.)

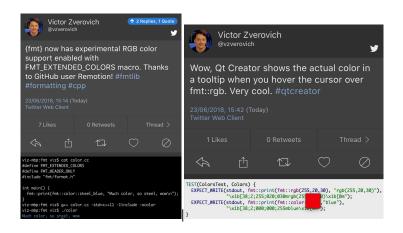
Radiation

- ► Single Event Upset (SEU)
- Single Event Latch (SEL)
- Error Correcting Code (ECC)
- Memory scrubbing
- Radiation-hardened components
- Log or hard error
 - ► Log for each requirement
 - Not all errors are hard errors
 - Depends on system under test some systems are more expensive to test than others

{fmt} 5.0.0

- Release notes
- ▶ P0645
- ► Support for ranges, containers and types with tuple interface

{fmt} supports colours



zapcc open-sourced

zapcc is a caching C++ compiler based on clang, designed to perform faster compilations.

► Code (LLVM)

Getting started with Meson in C++

- Part 1
- Part 2
- ▶ Part 3

Using Conan with Premake

Article

Digital Mars C++ compiler source code

▶ Code

NanoRange: a MSVC-compatible Ranges TS implementation for C++14

- ► Code (BSL)
- ► Reddit thread

Twitter

