Done in 6.0 seconds

A new build system for GStreamer?

Jussi Pakkanen SDK lead developer, Jolla http://mesonbuild.com

Why change build systems?

- performance problems
- unpleasant syntax, hard to debug
- Autotools without a native package manager is painful
- xdg-app means that embedding is the future even on Linux

Meson in a nutshell

- Fast, easy to write, reliable
- Support all platforms: Win, OSX, Linux, iOS etc
- comply with distro packaging requirements
- system checks like with autoconf

Wrap dependency system

- Like Cerbero/jhbuild but inside the build system
- embed Meson subprojects in a sandbox
- "internal pkg-config" for dependencies
- transparent switching between internal and external dependencies
- online wrapdb for dependencies

GST build experiment

- port GST base to Meson
- cooperation with core devs
- compiles on Linux, OSX, MinGW
- 1116 lines of code vs 3395 for Autotools

GST build time on ARM board

- Autotools
 - conf: 3m 4s
 - build: 5m 21s
 - no change: 7s
 - one change: 1m 19s

- Meson
 - conf: 12s
 - b<mark>uild: 5</mark>m 14s
 - no change: 0.15s
 - one change: 27s

Build time on Tim's machine

6.25 seconds (5.11 with CCache)