#### Qt on QNX

What's happening with Qt for QNX

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#### Overview

- Moving QNX to 5.6
- Preparing Qt for QNX 7.0
- Adding 64-bit QNX targets
- DBus support
- QtWebEngine support
- QNXAF
- Qt for QNX on Windows
- Continuous Integration for QNX
- Qt in Momentics
- Qt Creator enhancements for QNX

#### Moving to 5.6

- CAR 2.1: Qt 5.2.0
- Apps and Media 1.0: Qt 5.2.0
- Apps and Media 1.1: Qt 5.3.1
- CAR 3.0: Qt 5.6.x
- QNX 7.0 based products: Qt 5.6.x

### Preparing for QNX 7.0

- mid-2017
- GCC 5
- LLVM C++ library (libc++)
- constexpr support
- C++11, C++14, some C++17
- Less QNX specific code

## 64-bit QNX targets

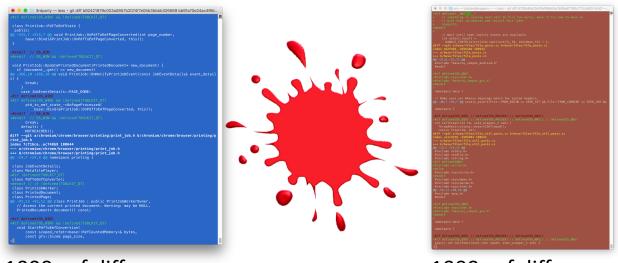
- aarch64le
- x86\_64
- int is 32-bit on 64-bit QNX

#### DBus support

- Port libdbus to QNX
- Verify that QtDBus works with the port

# QtWebEngine

- BLINK for QNX
- QtWebEngine from BLINK for QNX?



1000s of differences to the left of me

1000s of differences to the right of me

## Whatever happened to QNXAF?

- Er, what's QNXAF?
  - QNX Application Framework
  - Install/uninstall applications
  - OS and application updates
  - Launch applications (invoke)
  - Application lifecycle messages (foreground, background, etc)

## Whatever happened to QNXAF?

- What was being done to Qt for QNXAF?
  - Integrating invoke and lifecycle
  - Improving platform plugin
- So, where did it go?
  - QNXAF didn't make the cut for 7.0 ☺
- Why do we care?
  - Salvage improved Qt platform plugin ☺

## Whatever happened to QNXAF?

- What's in the improved plugin?
  - Z-order/grouping under application control
  - Native window properties
  - Window manager support

#### Qt for QNX on Windows

- Windows and Linux hosts should produce same Qt but they aren't
- Windows configure is making poor choices for QNX

### **Continuous Integration**

- What we have:
  - The Qt Company CI builds for ARM QNX 6.6.0
  - CI doesn't run auto tests on any QNX target
  - Manual testing of releases
- What we need:
  - Daily build for each target
  - Run the auto tests on some targets
  - Full CI system (eventually)

#### Qt in Momentics

- QML editor
- qmake builds
- Signals and slots
- Debugging Qt applications

# **Qt Creator**

valgrind

#### Questions

 Or any other Qt for QNX related things that anyone would like to discuss.