LLVM Toolchain Home

bout this project

Development of LLVM Toolchain:

- Clang compiler
  - We implement new and improve existing code-size and code-speed optimizations for AArch64 and ARM targets.
- LLDB debugger
  - We develop support for new ARMv8.x architectural features and improve debugging experience.
- Compiler-RT runtime libraries
  - We port and improve compiler sanitizers (ASAN, TSAN, etc.) to AArch64 and ARM architectures. Sanitizer changes are then merged into GCC to have both LLVM and GNU toolchains provide sanitizer features.
- LLD linker
  - In LLD linker we implement ELF section-level optimizations, as well as workarounds for hardware errata.
- LLVM Buildbots : Bot Status

Meetings

Get Involved

- Most discussion is on the upstream lists
- Join the llvm-dev ML (archive)
- Contact maxim.kuvyrkov@linaro.org

The following items are on the current plan

Key	Summary	T	Assignee	Status	Resolution
LLVM-658	Enable LLDB for LLVM WoA release		Omair Javaid	TODO	Unresolved
LLVM-656	LLVM buildbots Monitoring (2021.Q2-2021.Q3)		Yvan Roux	TODO	Unresolved
LLVM-654	Accelerate development of F18 Flang for AArch64 (2021.Q2 - 2021.Q3)		Diana Picus	TODO	Unresolved
LLVM-653	LLVM Toolchain code-speed regression detection (2021.Q2-2021.Q3)		Maxim Kuvyrkov	TODO	Unresolved
LLVM-652	LLVM Toolchain code-size regression detection (2021.Q2-2021.Q3)		Maxim Kuvyrkov	TODO	Unresolved
LLVM-651	Code-speed regressions from tcwg_bmk-llvm CI		Maxim Kuvyrkov	IN PROGRESS	Unresolved
LLVM-650	Code-size regressions from tcwg_bmk-llvm CI		Maxim Kuvyrkov	IN PROGRESS	Unresolved
LLVM-649	Track building Linux kernel with LLVM Toolchain (2021.Q2-2021.Q3)		Yvan Roux	TODO	Unresolved
LLVM-647	Linux regressions from tcwg_kernel-llvm CI		Maxim Kuvyrkov	IN PROGRESS	Unresolved
LLVM-646	LLVM Toolchain regressions from tcwg_kernel-llvm CI		Yvan Roux	IN PROGRESS	Unresolved
LLVM-643	Show control register fields in lldb		David Spickett	TODO	Unresolved
LLVM-640	TBI Enablement for LLDB		Omair Javaid	IN PROGRESS	Unresolved

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