



Welcome to the
FOSDEM 2024
LLVM dev room!

Organizers:
Marius Brehler, Peter Smith, Kristof Beyls



A bit of history



- This is the 10th LLVM dev room.
- First one in 2014; only skipped 2021
A few different organizers over the years:
Renato, Sylvestre, Arnaud, Peter, Kristof, Kiran, Marius, and more
- First time we're running back-to-back with GCC dev room!

Participating/Contributing/starting with LLVM

mo	tu	we	th	fr	sa	su
19:00 LLVM Poster Authentication	02:00 LLVM Bay Area Monthly Meetup (MC; 16:30 Flang Biweekly Sync			16:00 CANCELED RISC-V LLVM sync-up c 17:00 LLVM Embedded Toolchains Working 18:00 HSLI Working Group		
16:30 FW: Flang Community Technical Call 16:00 AArch64 Sync-up	16:00 LLVM Poster Authentication	16:00 Cambridge Compiler Social	16:00 OpenMP work for llvm-project/flang	16:00 LLVM MLGO Sync		
16:00 SYCL upstream sync	17:00 Anastasia's LLVM Office Hours	16:00 LLVM/Offroad - Bi-weekly Meeting	17:00 MLIR Open Meeting (TBD)			
16:00 MemorySSA in LLVM - Open Source	19:00 New Contributor Office Hours	16:00 classic flang technical call	16:00 PowerPC Dev Meetup			
		16:00 Clang C/C++ Language Working Gr	19:30 LLVM SPER-V Backend Working Gro			
		16:00 Loop Opt WG	16:00 LLVM Office Hour w/ Quentin			
		16:00 LLVM Office Hour w/ Johannes	16:30 LLVM Office Hour w/ John			
		17:30 LLVM + OpenMP Office Hour w/ John				
16:00 Aaron Ballman Office Hours	17:30 Alina Sotiea - Office hours in LLVM	08:30 Kristof Beyls LLVM office half-hour	16:00 RISC-V LLVM sync-up call	16:00 Aaron Ballman Office Hours		
17:30 Office hours with Alexey Bader	19:00 New Contributor Office Hours	16:00 OpenMP in LLVM Sync	17:00 LLVM lbc Monthly Meeting	19:00 Aaron Ballman Office Hours		
16:00 LLVM AA TechCall		16:00 Flang Biweekly Sync	17:00 MLIR Open Meeting (TBD)			
16:00 LLVM Poster Authentication		17:00 LLVM + OpenMP Office Hour w/ John	19:30 LLVM SPER-V Backend Working Gro			
16:00 Aaron Ballman Office Hours		16:00 BOLT Open-Source Office Hours				
16:30 FW: Flang Community Technical Call	17:00 Llca++ Monthly Meeting	00:00 Office hours with Rhodde Wang	16:00 OpenMP work for llvm-project/flang			
16:00 LLVM Poster Authentication	19:00 LLVM Security Group Public Sync U	16:00 LLVM/Offroad - Bi-weekly Meeting	17:00 MLIR Open Meeting (TBD)			
16:00 SYCL upstream sync	19:00 New Contributor Office Hours	16:00 classic flang technical call	16:00 PowerPC Dev Meetup			
		16:00 Clang C/C++ Language Working Gr	19:30 LLVM SPER-V Backend Working Gro			
		16:00 Loop Opt WG	16:00 LLVM Office Hour w/ Johannes			
		17:30 LLVM + OpenMP Office Hour w/ John	17:30 LLVM + OpenMP Office Hour w/ John			
		18:00 LLVM Floating Point Working Group				
17:00 MLIR C/C++ Frontend Working Gro	19:00 New Contributor Office Hours	08:30 Kristof Beyls LLVM office hours	16:00 RISC-V LLVM sync-up call	16:00 LLVM MLGO Sync		
16:00 LLVM Poster Authentication		16:00 OpenMP in LLVM Sync	17:00 MLIR Open Meeting (TBD)			
		16:00 Flang Biweekly Sync	17:00 LLVM Embedded Toolchains Working			
		17:30 LLVM + OpenMP Office Hour w/ John	19:30 LLVM SPER-V Backend Working Gro			
		17:30 Alana Emerson - GlobalSite office				

- [Discourse \(forum\)](#), [Discord \(interactive chat\)](#)
- [Office hours](#), [Online sync-ups](#),
- [community calendar](#)
- [Getting started issues \(148 open today\)](#)
- <https://llvm.org/docs/GettingInvolved.html>
- [GSoC, Outreachy](#)
- [Companies hiring](#)

Event	Speakers	Start	End
Sunday			
Welcome to the LLVM dev room	Kristof Beyls, Peter Smith, Marius Brehler	13:15	13:20
Linker Scripts in LLD and how they compare with GNU ld	Peter Smith	13:20	13:40
Patch based test coverage for quick test feedback	Shivam Gupta	13:45	13:55
The LLVM Security Group: History, progress, remaining challenges.	Kristof Beyls	14:00	14:20
Building a Linux distro with LLVM	Daniel Kolesa	14:25	14:55
Build your first Clang compilation database plugin	Pascal Jungblut	15:00	15:20
Challenges of supporting multiple versions of LLVM in Intel Graphics Compiler	Mateusz Belicki	15:25	15:55
elfconv: AOT compiler that translates Linux/AArch64 ELF binary to LLVM bitcode targeting WebAssembly	Masashi Yoshimura	16:00	16:30
Map LLVM values to corresponding source-level expressions	Shivam Kunwar	16:35	17:00