



Welcome to the
FOSDEM 2025
LLVM dev room!

Organizers:
Marius Brehler, Peter Smith, Kristof Beyls



A bit of history

- This is the 11th 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

- Second time we're running back-to-back with GCC dev room!

Participating/Contributing/starting with LLVM

The screenshot shows a calendar for February 2025 with events listed for various days. The events are as follows:

Day	Event(s)
ZO 26	
MA 27	18:00 LLVM Poi
DI 28	
WO 29	15:00 OpenMP 16:30 Flang Biw nog 2
DO 30	16:00 RISC-V LI 16:00 RISC-V LI nog 2
VR 31	
ZA 1 feb	09:30 FOSDEM
2	
3	16:30 FW: Flang 17:00 MLIR C/C 18:30 MemoryS
4	
5	15:00 LLVM/Off 15:30 classic fl nog 4
6	16:00 OpenMP 17:00 MLIR Ope 18:00 HLSL Wor
7	14:00 Renato' L 16:00 LLVM ML 16:00 LLVM ML
8	
9	
10	15:00 Aaron Ba 17:30 Office ho nog 3
11	17:30 Alina Sbir
12	08:30 Kristof Br 15:00 OpenMP nog 4
13	16:00 RISC-V LI 16:00 RISC-V LI nog 2
14	
15	
16	
17	16:30 FW: Flang
18	16:00 Vectorize 17:30 Libc++ Mc 19:00 LLVM Sec
19	00:30 Office hc 15:00 LLVM/Off nog 5
20	16:00 OpenMP 17:00 MLIR Ope
21	15:00 Aaron Ba 19:00 Aaron Ba
22	
23	
24	18:00 LLVM Poi
25	
26	08:30 Kristof Br 15:00 OpenMP nog 4
27	16:00 RISC-V LI 16:00 RISC-V LI nog 2
28	
1 mrt	

calendar@llvm.org

- [Discourse \(forum\)](#), [Discord \(interactive chat\)](#)
- [Office hours](#), [Online sync-ups](#), [community calendar](#)
- [Getting started issues](#) (183 open today)
- <https://llvm.org/docs/GettingInvolved.html>
- GSoC, Outreachy
- [Companies hiring](#)

Participating/Contributing/starting with LLVM

calendar@llvm.org

Vandaag < > Februari 2025 Maand						
ZO 26	MA 27	DI 28	WO 29	DO 30	VR 31	ZA 1 Feb
	o 18:00 LLVM Poi		o 15:00 OpenMP o 16:30 Flang Biw nog 2	o 16:00 RISC-V LI o 16:00 RISC-V LI nog 2		o 09:30 FOSDEM
2	o 16:30 FW: Flang o 17:00 MLIR C/C o 18:30 MemoryS	4	o 15:00 LLVM/Off o 15:30 classic fl nog 4	o 16:00 OpenMP o 17:00 MLIR Ope o 18:00 HLSL Wor	o 14:00 Renato' L o 16:00 LLVM ML o 16:00 LLVM ML	8
9	o 15:00 Aaron Ba o 17:30 Office ho nog 3	o 17:30 Alina Sbir	o 08:30 Kristof Br o 15:00 OpenMP nog 4	o 16:00 RISC-V LI o 16:00 RISC-V LI nog 2	14	15
16	o 16:30 FW: Flang	o 16:00 Vectorize o 17:30 Libc++ Mc o 19:00 LLVM Sec	o 00:30 Office hc o 15:00 LLVM/Off nog 5	o 16:00 OpenMP o 17:00 MLIR Ope	o 15:00 Aaron Ba o 19:00 Aaron Ba	22
23	o 18:00 LLVM Poi	25	o 08:30 Kristof Br o 15:00 OpenMP nog 4	o 16:00 RISC-V LI o 16:00 RISC-V LI nog 2	28	1 mrt

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<https://fossdem.org/2025/schedule/track/llvm/>

Saturday

Welcome to the LLVM dev room	Kristof Beyls, Peter Smith, Marius Brehler	10:30	10:35
A New Approach to Callee-Saved Registers in LLVM	Mikhail Gudim	10:35	11:00
Moving work into the middle end	Jon Chesterfield	11:05	11:25
Improving compile-time computation of object size	Serge « sans paille » Guelton	11:30	11:50
O_o [Flang + WASM] o_O	Serge « sans paille » Guelton	11:50	11:55
Things are coming together for Flang tooling	Tim Heldmann, Peter Arzt	12:00	12:20
An introduction to Torch-MLIR	Marius Brehler	12:25	12:45
MLIR-based Data Tiling and Packing for Ryzen AI NPU	Jorn Tuyls	12:50	13:10
An introduction to building and using LLVM libc	Peter Smith	13:15	13:40
Programming is fun; Testing is needed; Infra is ...	Jan-Patrick Lehr	13:45	14:05
Profile-Guided Optimization (PGO) in LLVM: current challenges from the adopter perspective	Alexander Zaitsev	14:10	14:30

Remote people can also ask questions: see chat room links

Welcome to the LLVM dev room

A word of welcome by the LLVM Dev room organizers.

Speakers



Kristof Beyls



Peter Smith

Marius Brehler

Links

- [Chat room\(web\)](#)
- [Chat room\(app\)](#)
- [Submit Feedback](#)