



CLAIX-2025 Porting and Tuning Workshop 2026

as part of the aiXcelerate series

aiXcelerate

October 1st + 2nd, 2026 | Aachen

Dr. Tim Cramer, Dr. Marc-André Hermanns, Felix Tomschi, Christian Wassermann, Dr. Sandra Wienke

Who Are We? – Organizations

NHR4CES: NHR for Computational Engineering Science

NHR = National High Performance Computing: alliance of 9 German universities to pool resources and competencies to scientists at all German universities

RWTH + TU Darmstadt = NHR4CES: focus on computational engineering sciences



IT Center of RWTH Aachen University, HPC team

Provides consulting and training services for HPC users

Conducts own HPC research and lecturing (Chair for High Performance Computing)



HPC.NRW: The North Rhine-Westphalian Competence Network for HPC

Connection of expertise of the large HPC centers (Tier 2) with the consulting services of smaller centers (Tier 3)



Overview

Organization

- Presentations
 - Hybrid format
 - Open for everyone
- Code & Tuning Activities → BYO code
 - On-premise only

Questions – any time!

- In-person (please wait for the mic) or
- “Raise hand” in Zoom & unmute your mic, or “Q&A” feature in Zoom

Course material

- Will be continually added to website – **non-NDA material only**
- Website: <https://blog.rwth-aachen.de/itc-events/en/event/claix-2025-porting-and-tuning-workshop/>

Thank You!

Support

- Igor Pasichnyk (AMD)
- HPC team of the IT Center

Catering

is sponsored by



Evaluation – Feedback Wanted!



Evaluation Form

(valid until October 14th, 2026)

<https://s2survey.net/portingtuning2026/>

CLAIX-2025 Porting and Tuning Workshop - Evaluation

We are interested in your feedback on the CLAIX-2025 Porting and Tuning Workshop 2026 (blog.rwth-aachen.de/claix-2025-porting-and-tuning-workshop/) as part of the aiXcelerate workshop series! The survey contains demographic questions, and one page per session (as selected). You can preview all questions.

All data is collected and stored anonymously.

Sessions

Select all sessions that you attended (even partly). You will see a quick survey per session.

- ☐ Presentations (Thursday and/or Friday)
- ☐ BYO Code (Thursday and/or Friday)

Why did you attend this tutorial?

- ☐ Work/Study Related
- ☐ Recommended

Agenda: Oct 1st, 2026

Time	Topic	Speaker
9:00 – 9:10	Welcome	Tim Cramer (RWTH)
9:10 – 10:00	CLAIX-2025 Overview: Hardware, Software, Modules, Slurm & Co	Marc-André Hermanns (RWTH)
10:00 – 10:15	Coffee Break	
10:15 – 11:45	AMD EPYC Deep Dive (Architectures & Compilers)	Igor Pasichnyk (AMD)
11:45 – 13:00	Lunch Break (on your own)	
13:00 – 14:30	AMD EPYC Tuning (Libraries & Tools)	Igor Pasichnyk (AMD)
Code Activies (BYO Code)		
14:30 – 14:45	Coffee Break	
14:45 – 15:45	Code Activites	
15:45 – 16:00	Coffee Break	
16:00 – 17:30	Code Activities	

Agenda: Oct 2nd, 2026

Time	Topic	Speaker
9:00 – 9:05	Welcome	Marc-André Hermanns (RWTH)
9:05 – 10:30	Accelerating Machine Learning on AMD EPYC	Igor Pasichnyk (AMD)
10:30 – 10:45	Coffee Break	
10:45 – 12:15	Code Activies (BYO Code)	
12:15 – 13:30	Lunch Break (on your own)	
13:30 – 13:50	Compiler & MPI Recommendations for CLAIX-2025 – Lessons learnt from acceptance benchmarking	Felix Towski (RWTH)
13:50 – 14:20	Performance Monitoring on CLAIX-2025	Christian Wassermann (RWTH)
Code Activies (BYO Code)		
14:20 – 14:35	Coffee Break	
14:35 – 15:30	Code Activites	