



aiXcelerate 2021: Organization and Agenda

HPC.NRW Competence Network



THE COMPETENCE NETWORK FOR HIGH PERFORMANCE COMPUTING IN NRW.

Course Organization

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Monday, December 6

Start	End	Topic	Speaker
09:00	10:00	Does I/O matter to me?	RWTH
10:00	10:15	Break	
10:15	11:15	Overview of I/O Technologies on CLAIX	Philipp Martin (RWTH)
11:15	11:30	Break	
11:30	12:30	Using Darshan for I/O Analysis	Radita Liem (RWTH)
12:30	14:00	Lunch Break	
14:00	15:00	Using Score-P & Vampir for I/O Analysis	Marc-André Hermanns (RWTH)
15:00	15:15	Break	
15:15	16:45	BYO: Preparation of benchmarks and job submissions for user codes	

Tuesday, December 7

Start	End	Topic	Speaker
09:00	10:00	I/O Libraries: Overview and MPI-IO	Marc-André Hermanns (RWTH)
10:00	10:15	Break	
10:15	11:00	I/O Libraries: HDF5	Sebastian Lührs (Forschungszentrum Jülich)
11:00	11:15	Break	
11:15	12:00	I/O Patterns Best Practice	Radita Liem (RWTH)
12:00	13:30	Lunch Break	
14:00	15:00	BYO: Review benchmark results	
15:00	15:15	Break	
15:15	16:45	BYO: Lightning talks about take-aways	

Schedule – Machine Learning (ML)

Wednesday, December 8

Start	End	Topic	Speaker
09:00	09:30	Welcome & ML Focus	RWTH
09:30	10:00	Infrastructure Overview and Future Plans	Christian Terboven (RWTH)
10:00	10:15	Break	
10:15	11:00	Vision: Development, Testing and Production	Jannis Klinkenberg (RWTH)
11:15	11:30	Break	
11:30	12:30	Configuring and running ML/DL workloads on CLAIX	Sven Hansen (RWTH), Jannis Klinkenberg (RWTH)
12:30	14:00	Lunch Break	
14:00	15:00	Identifying utilization efficiency	Jannis Klinkenberg (RWTH)
15:00	15:15	Break	
15:15	16:45	Hands-on: Running ML/DL Workloads on CLAIX	Jannis Klinkenberg (RWTH)

Thursday, December 9

Start	End	Topic	Speaker
09:00	10:30	BYO: Reviewing & adapting user codes and workflows	
10:30	10:45	Break	
10:45	12:15	BYO: Reviewing & adapting user codes and workflows	
12:15	13:45	Lunch Break	
13:45	14:45	BYO: Review results	
14:45	15:00	Break	
15:00	16:00	BYO: Lightning talks about take-aways	

- All course material will be available at <https://blog.rwth-aachen.de/itc-events/en/event/aixcelerate-2021/>
- We will continue to add course material during the event

Asking Questions

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- We will use Slack as communication channel for discussions and Q&A during the lectures and exercises.
- Joining Slack
 - https://join.slack.com/t/aixcelerate2021/shared_invite/zt-yt2upbw5-HDwn4FN50zuzPIIdruCMLkw
 - We will answer your questions live or via text.
 - Individual discussions also possible
- Please try to avoid the Zoom chat as it is hard to follow discussions there.

Asking Questions – Zoom Meeting

- You can also ask questions via microphone.
- There is a **raise your hand** feature in Zoom.
- Click on the button if you have a question that you would like to ask “live”.
 - **Do not forget to unmute yourself**

