







PRACE Course: HPC Code Optimisation Workshop

LRZ | 2 – 4 November 2021



Survey



Please fill out the online survey under



https://tinyurl.com/survey-hcow1w21



- This helps us to
 - increase the quality of the courses,
 - design the future training programme at LRZ and in Europe according to your needs and wishes,
 - get future funding for training events.



PRACE Training



LRZ as part of the Gauss Centre for Supercomputing (GCS) belongs to the 14 **PRACE Training Centres** that started in 2012-2017-2020:

- Barcelona Supercomputing Center (Spain)
- CINECA Consorzio Interuniversitario (Italy)
- CSC IT Center for Science Ltd (Finland)
- EPCC at the University of Edinburgh (UK)
- Gauss Centre for Supercomputing (Germany)
- Maison de la Simulation (France)
- GRNET Greek Research and Technology Network (Greece)
- ICHEC Irish Centre for High-End Computing (Ireland)
- IT4I National Supercomputing Center VSB Technical University of Ostrava (Czech Republic)
- SURFsara (The Netherlands)
- TU Wien VSC Research Center (Austria)
- University ANTWERPEN VSC & CÉCI (Belgium)
- University of Ljubljana HPC Center Slovenia (Slovenia)
- Swedish National Infrastructure for Computing (SNIC) (Sweden)







Mission: Serve as European hubs and key drivers of advanced high-quality training for researchers working in the computational sciences.

http://www.training.prace-ri.eu/

NVIDIA DLI Workshops @ LRZ









- The NVIDIA Deep Learning Institute (DLI) @ LRZ offers hands-on training for developers, data scientists, and researchers looking to solve challenging problems with deep learning.
- Topics:
 - **Fundamentals of Deep Learning**
 - **Building Transformer-Based Natural Language Processing Applications**
 - **Fundamentals of Deep Learning for Multi-GPUs**
 - Fundamentals of Accelerated Computing with CUDA C/C++
 - **Accelerating CUDA C++ Applications with Multiple GPUs**
 - **Fundamentals of Accelerated Computing with OpenACC**
- **NVIDIA Certified University Ambassadors @ LRZ:**
 - Dr. Momme Allalen, Dr. Juan Durillo Barrionuevo, Dr. Volker Weinberg
- NVIDIA Certified University Ambassador @ IT4Innovations: Georg Zitzlsberger

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Upcoming Courses and Workshops



Modern C++ Software Design	17.11.2021 – 19.11.2021	ONLINE	30.00 € − 600.00	34	0	
Introduction to LRZ HPC Systems with Focus on CFD Workflows	17.11.2021 – 17.11.2021	ONLINE	0.00€	52	0	Register now
Advanced Fortran Topics (register via PRACE)	23.11.2021 – 26.11.2021	ONLINE	0.00€	65	0	
Accelerating CUDA C++ Applications with Multiple GPUs	30.11.2021 – 30.11.2021	ONLINE	0.00€	30	0	Register now
Node-Level Performance Engineering (register via PRACE)	01.12.2021 – 03.12.2021	ONLINE	0.00€	65	0	
Molecular Modeling with Schrödinger-Suite	06.12.2021 – 07.12.2021	ONLINE	0.00€	121	②	Register now
Introduction to LRZ HPC Systems with Focus on CFD Workflows	19.01.2022 – 19.01.2022	ONLINE	0.00€	64	②	Register now
Al for Science Bootcamp	01.02.2022 – 02.02.2022	ONLINE	0.00€	60	0	
OpenMP Programming Workshop (register via PRACE)	08.02.2022 – 10.02.2022	ONLINE	0.00€	65	0	
Parallel Programming of High Performance Systems	08.03.2022 – 10.03.2022	ONLINE or RRZE (tbd)	0.00 € − 600.00 €	36	0	
N-Ways to GPU Programming Bootcamp	14.03.2022 – 15.03.2022	ONLINE	0.00€	60	0	

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Upcoming Courses and Workshops







Information on further HPC courses:

- by the Partnership for Advanced Computing in Europe (PRACE): http://www.training.prace-ri.eu/
- by LRZ: http://www.lrz.de/services/compute/courses/
- by the Gauss Centre of Supercomputing (GCS): http://www.gauss-centre.eu/training
- by German Centres (collected by the Gauß-Allianz): https://hpc-calendar.gauss-allianz.de/

Mailing Lists





• Subscribe via https://lists.lrz.de/mailman/listinfo/aktuell to get regular information on events, courses, workshops, positions etc. at LRZ.

Subscribe via https://prace-ri.eu/subscribe-to-prace-mailing-lists/ to the PRACE training mailing list, to get regular information on PRACE training.

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Thank you! We hope to see you again in a future training event!