

New Member Site: Introducing LRZ

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Leibniz Supercomputing Centre

Cray User Group 2025
Jersey City, NJ, USA
4-8 May 2025

About LRZ

Leibniz Supercomputing Centre

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Introducing
LRZ
MMM

- Founded in Munich in 1962
- Institute of the Bavarian Academy of Sciences and Humanities
- Moved to the TUM campus in Garching (near Munich) in 2006
- Number of employees: ~ 320
- Customers:
 - 1 For general IT services: Both big universities in Munich (LMU and TUM)
 - 2 For various IT services: Universities in Bavaria
 - 3 For HPC: Researchers in Bavaria, Germany, and Europe
- Services include
 - Munich Scientific Network
 - Various storage options including cloud storage and backup services
 - Virtual reality and visualization
 - Big Data and AI
 - Quantum Computing

HPC at LRZ

Previous and Current National Supercomputers

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Previous and Current National Supercomputers

- 2000 thru 2006: Hitachi SR8000-F1/168
- 2006 thru 2011: SGI Altix 4700 (Intel Itanium)
- 2012 thru 2020: IBM iDataPlex (Intel x86)
- 2019 thru 2027: Intel / Lenovo Thinksystem (Intel x86)

User Communities

- Physics (Astro, Lattice QCD, Solid State, . . .)
- Engineering (Fluid Dynamics)
- Geophysics (Earthquakes)
- Climate
- Quantum Computing

HPC at LRZ

Selected Association Memberships

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Gauss Centre for Supercomputing (GCS)

- Founded in 2007
- Association of the three largest supercomputing centres in Germany
 - Jülich Supercomputing Centre
 - High Performance Computing Center Stuttgart (HLRS)
 - LRZ

Munich Quantum Valley

- Founded in 2022
- LRZ participates through the Bavarian Academy of Sciences and Humanities
- LRZ's contribution: Quantum Integration Center

HPC at LRZ

Upcoming National Supercomputer

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- To be installed end of 2026 by HPE . . . Stay tuned. Thank you!