



Prof. Dr. Matthias Müller

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Chair of High Performance Computing
(Informatik 12)

Center for Computing and Communication
(Rechen und Kommunikationszentrum)

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- **Head: Prof. Matthias Müller**

- **Website: www.hpc.rwth-aachen.de**

- **Research Focuses:**

- Parallel Programming Paradigms

- Energy Efficiency

- Correctness Checking

- Performance Analysis

- **Teaching Events:**

- Lecture: Introduction to Performance- and Correctness Analysis of Parallel Applications (WS 2013/14)

- Lecture: Introduction to High-Performance Computing (SS 2014)

- Performance requirements, metrics, evaluations
- Commonly used Benchmarks
- Monitoring techniques, Performance Analysis Tools
- Automatic detection of common mistakes
- Design methods towards less error-prone programming

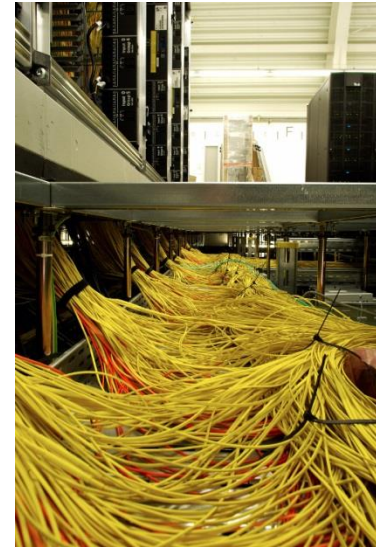


Image source: Dieter Both, Bull GmbH



Lecture – Organization

■ Computational Engineering Computer Science

■ 3 hours of lecture / 1 hour exercises

- Tuesday 14:15 – 15:45 in 2356|055
- Thursday 10:15 – 11:45 in 2356|055

■ Credits

- BSCES, BSInf, MSInf : 6 ECTS
- MSCES: 4 ECTS

■ Prerequisites:

- Basic programming knowledge in C/C++ or FORTRAN on Linux
- Knowledge of central concepts of parallel programming