

JAMSTEC-DKRZ Cooperation

10/30/2018

Prof. Dr. Thomas Ludwig
Deutsches Klimarechenzentrum (DKRZ)
Universität Hamburg, Fachbereich Informatik (UHH/FBI)

Structure

Memorandum of Understanding

- German Climate Computing Center (DKRZ)
 - Thomas Ludwig (director)
- Japan Agency for Marine-Earth Science and Technology (JAMSTEC)
 - Center for Earth Information Science and Technology (CEIST)
 - Keiko Takahashi (director), Makoto Tsukakoshi (division director)
- Signed in April 2016 for 04/2016 to 03/2018
- Continuation currently under discussion

History

- JAMSTEC/CEIST-DKRZ contacts and visits for many years

Work Packages

- I/O benchmarking
- Energy benchmarking
- Code benchmarking
- Internal discussions
 - on organizational and technical issues
 - on software testing
 - on IPCC and CMIP issues
 - on scientific visualization
- Result workshops
 - 2017@DKRZ and 2018@JAMSTEC
 - One day open workshop with other scientists, one day internals

Content

I/O benchmarking

- Comparison of I/O benchmarks used for system procurements
- Different system architectures at JAMSTEC and DKRZ

Energy benchmarking

- PUE measurements at both centers
- JAMSTEC can also measure computational performance