

ESM User Forum

FZJ-JSC, March 16-17, 2022 (online: <https://webconf.fz-juelich.de/b/ste-jrn-6gt>)

Agenda:

March 16: ESM User Forum – Code Scalability

- 9:00-9:15 Welcome Address (Norbert Attig, FZJ/JSC)
- 9:15-10:00 JUDOOR and LLview / good practices on JSC systems (Sebastian Lühns, FZJ/JSC)
- 10:00-10:30 NextGEMS' Twin Jewels (Nils Wedi, ECMWF; Daniel Klocke, MPI-M)
- 10:30-11:00 Coffee break
- 11:00-11:20 Bringing Earth System Science to Exascale HPC (Sabine Griebach, FZJ/JSC)
- 11:20-11:40 Lightweight eDSL (Zbigniew Piotrowski, FZJ/JSC)
- 11:40-12:00 Recent results of GPU porting of MPTRAC (Lars Hoffmann, FZJ/JSC)
- 12:00-12:30 Acceleration of KPP code for MESSy with OpenACC (Timo Kirfel, FZJ/IEK-8; Kerstin Hartung, DLR)
- 12:30-14:00 Lunch break
- 14:00-17:00 Hands-on: Performance Analysis Tools (Andreas Herten & Kaveh Haghighi Mood, FZJ/JSC)

March 17: ESM User Forum – Exascale Workflows

- 9:00-9:30 ESM issues and discussion, news from the ESM partition (Olaf Stein, FZJ/JSC)
- 9:30-10:00 Warmworld; refactoring for ICON consolidated (Claudia Frauen, DKRZ)
- 10:00-10:30 FREVA (Christopher Kadow, DKRZ; Martin Bergemann, DKRZ)
- 10:30-11:00 Coffee Break
- 11:00-11:30 Transport Simulations with adaptive meshes (Johannes Holke, DLR)
- 11:30-12:00 HDF Cloud developments (Björn Hagemeier, FZJ/JSC)
- 12:00-13:00 Lunch break
- 13:00-14:00 Hands-on: Data Staging with PyStager (Simon Grasse & Enxhi Kreshpa, FZJ/JSC)
- 14:00-16:00 Hands-on: HeAT (Claudia Comito, FZJ/JSC)