JSC'S EXASCALE COMPUTING STRATEGY APPLICATIONS FIRST, APPLICATIONS NEXT, APPLICATIONS EVERYWHERE!

GCS



EuroHPC

- JUPITER Benchmark Suite: Application-focused system procurement
- JUPITER Research and Early Access Program: Intensive preparation of Exascale applications in multiple stages (JUREAP)

JÜLICH

Forschungszentrum

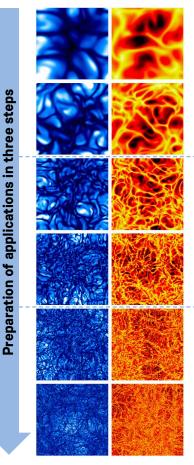
JÜLICH

CENTRE

SUPERCOMPUTING

- JUPITER Exascale Development Instrument: Preparation system with user access for early optimizations (JEDI)
- Grand Challenges: Early commitment on outstanding Exascale scientific cases

JUPITER: Focusing on high-impact Exascale Al/simulation applications and groundbreaking science!



JUREAP - SPEP

Scalability and Performance Evaluation Phase

Detailed and standardized analysis node performance and scaling *Small to medium size*

JUREAP - POP

Portability and Optimization Phase In-depth optimization and preparation of application candidates Medium to larger size

JUREAP - ORP Outstanding Research Phase Joint high-intensive campaigns to go beyond state-of-the-art Exascale/largest size

JSC "exaCB"

Continuous Integration/ Continuous Deployment solution for Exascale HPC

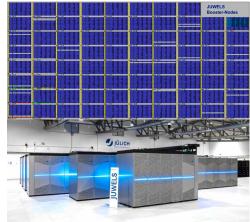
Reproducible pipelines for continuous benchmarking and system monitoring

JSC BIG DAYS

Cross sectional effort of multiple JSC teams

Regular reservations to run JSC supercomputers at maximum scale

exaCB



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