EUPEX EAP

Early Access Programme





This project has received funding from the European High-Performance Computing Joint Undertaking (JU) under grant agreement No 101033975. The JU receives support from the European Union's Horizon 2020 research and innovation programme and France, Germany, Italy, Greece, United Kingdom, Czech Republic, Croatia.



EUPEX Early Access Programme (EAP)

- > EUPEX will open its target Pilot system to organisations interested
- As Pilot system is not available yet:
 - Phase 1: Access to main Alpha system (CEA Irene A64FX partition)
 - Includes access to planned EUPEX software stack
 - Phase 2: Access to Pilot system once ready
- https://eupex.eu/early-access-program/



EUPEX Early Access Programme (EAP)

> Who?

- EAP Phase 1 open to
 - EuroHPC Centres of Excellence (CoEs)
 - Selected EuroHPC research projects (on request)

> How?

- Contact point of CoE/project should email us
 - via email link @ https://eupex.eu/early-access-program/#getting-started-with-the-eap
- Specify objectives you want to achieve with EAP
- Sign EAP Framework agreement





CEA Irene ARM64FX Partition

CEA Irene ARM64FX Partition: specification

> CPUs : A64FX Armv8.2-A SVE @ 1.8Ghz

Core/Node : 48

Nodes : 80

> Total cores: 3840

> RAM/Node : 32GB

> RAM/core: 666MB

> Interconnect: Mellanox connect-X6 HDR 100 Gbps



More info on Irene arm64fx partition

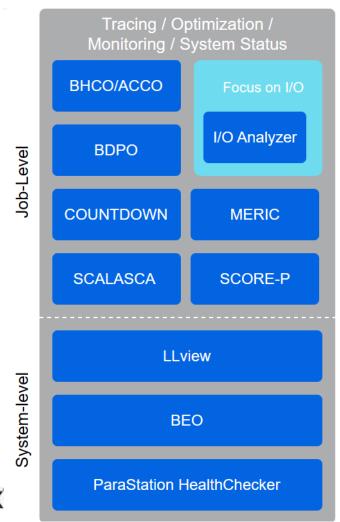
- > In a nutshell: More detailed documentation is available here:
 - https://www-hpc.cea.fr/tgcc-public/en/html/tgcc-public.html
 - https://www-fr.ccc.cea.fr/docs/irene/en/html/irene.html (login and password needed)
- > Support via hotline TGCC via email: hotline.tgcc@cea.fr

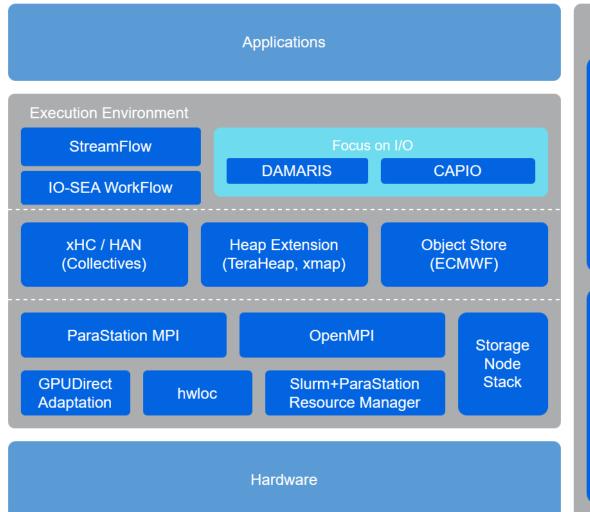




EUPEX Software Stack (ESS)

EUPEX Software Stack





System

Management

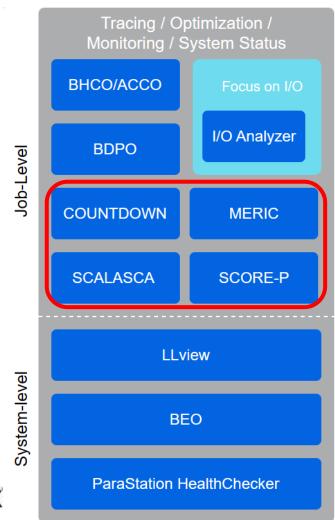
ParaStation

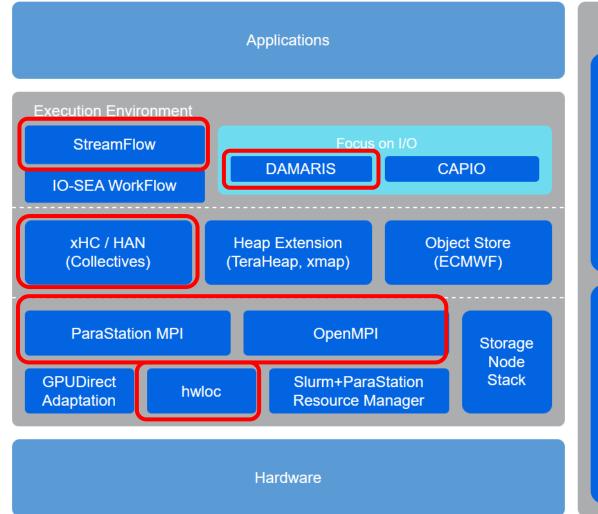
ClusterTools

Ocean-core /

Ocean-stack

EUPEX EAP Software STACK





Management

ParaStation
ClusterTools

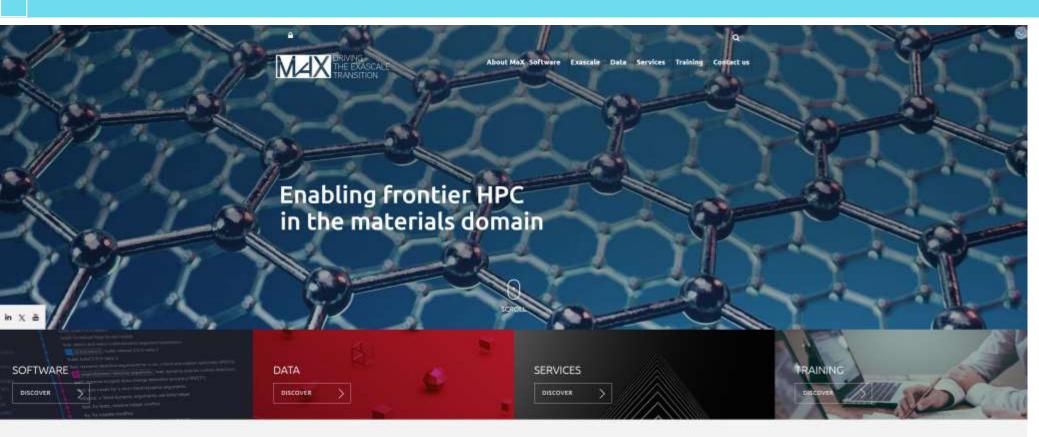
System

Ocean-core / Ocean-stack



Our current EAP users

MAX CoE



- About MAX
- MAX (Materials design at the eXascale) is a European Centre of Excellence which enables materials modelling, simulations, discovery and design at the frontiers of the current and future High Performance Computing (HPC), High Throughput Computing (HTC) and data analytics technologies.

MAX NEWS & EVENTS



MaX "Materials Design at the Exascale" has received funding from the European Union under grant agreement no. 101093374.



MultiXscale CoE



Welcome to MultiXscale!

EuroHPC JU Center of Excellence

Nutrition is a Successor High Performance Computing dead Undermiting (EuroPPC JJ) Control of Establishes is considered application co-design and delivery for materials servicitions. If is a collaboration 4-year physic between members of the COCAM network and ECSIS tool will allow density about that is two solventage of the computational resources offered by EgotIPC 33.

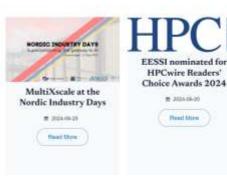






News





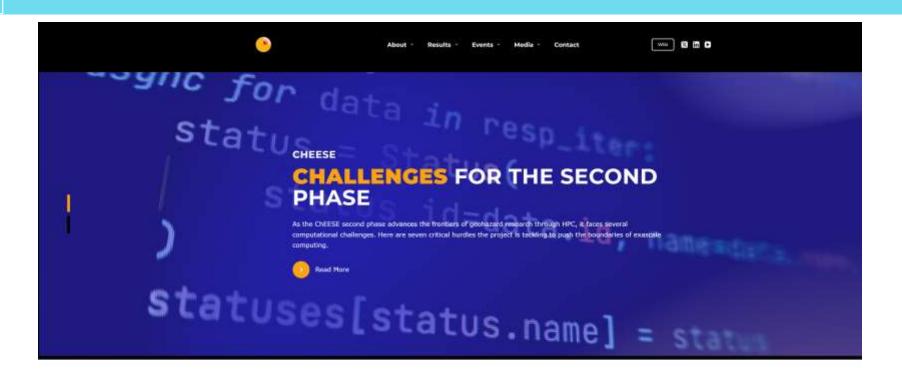




MultiXscale is a European High Performance Computing Joint Undertaking (EuroHPC JU) Center of Excellence in exascale-oriented application co-design and delivery for multiscale simulations. It is a collaborative 4-year project between members of the CECAM network and EESSI that will allow domain scientists to take advantage of the computational resources offered by EuroHPC JU.



ChEESE CoE



The CREESE CoE project embarks on its second phase, addressing the multiple challenges posed by geohazards with the help of easeable computers. The project primarily addresses European institutions responsible for operational monitoring networks but also at hardware developers, industrial stakeholders, public institutions and HPC centers.







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Want to join?

- > We **WELCOME** all new potential EAP users
- > Please visit EUPEX EAP web pages and contact us





Thank you





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