

LE NOUVEAU CCRT-C

- Le Centre de Calcul Recherche et Technologie (CCRT), initiative prise en 2003 par le CEA pour contribuer à accélérer le passage à l'échelle en simulation numérique notamment pour les partenaires industriels, renouvelle ses moyens de calculs en 2012
- Un nouveau calculateur de 200 Tflops, fourni par BULL et équipé des tout-derniers processeurs Intel® Xeon® E5-2680 (SandyBridge) est en cours d'installation au Très Grand Centre de calcul du CEA (TGCC)
- Les équipes du CEA, d'Areva, d'EADS/Astrium, d'EDF, d'Ineris, de Snecma, de Techspace Aero et de Turbomeca disposeront ainsi des ressources de calculs au meilleur niveau, nécessaires aux développements de leurs futurs projets.
- Cet été, pendant la période de grands challenges, il permettra aux partenaires actuels du CCRT de réaliser des simulations exceptionnelles.
- Ce nouveau supercalculateur a été dimensionné pour permettre l'intégration rapide de nouveaux partenaires.
- Un premier a déjà répondu présent: Valeo.



European Technology Platform for High Performance Computing



HPC is a key technology for European science, industry and society. It is of utmost importance:

- To build a world-class, globally competitive, European HPC technology value chain
- To increase the competitiveness of European HPC vendors and solutions
- To leverage the transformative power of HPC in order to boost European competitiveness in science and business
- To expand the HPC user base, especially SMEs
- To facilitate the provision of innovative solutions to tackle grand societal challenges in Europe such as climate change, better healthcare, predicting large scale catastrophes and managing risks.
- To foster international cooperation in research and industry.

Vision

An industry-led forum founded by stakeholders of HPC technology supply and research,
to further enroll all the actors of the European HPC technology ecosystem

allinea

ARM



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CAPS



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Imagine. Build. Succeed.

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<http://www.etp4hpc.eu>

- Designing and updating a **Strategic Research Agenda (SRA)** to provide decision makers with relevant advice and expertise for the long term development of HPC in Europe, and recommendations and support to the implementation of the SRA
- Facilitating **coordination between the HPC ecosystem and public authorities** (EU and Member States) responsible for HPC research and dissemination programs
- Fostering **joint initiatives among ETP members and other stakeholders** in the area of research and innovation programs
- Facilitating the **emergence of start-ups and the growth of existing SMEs**
- Supporting Europe and Member States authorities by **reinforcing Europe's position in the worldwide HPC arena**
- Representing the **voice of the European HPC industry** in the worldwide HPC arena

Mission

- Collaborate closely with scientific and industrial HPC user communities and ISVs
- Cooperate with other existing initiatives in the area of HPC and ICT in Europe such as PRACE
- Specify the most effective actions to take advantage of Europe's current strengths, utilise existing and emerging opportunities and close the currently increasing gaps
- Account for other key enabling technologies from non-HPC industry and research centres that might bring disruptive solutions into HPC
- Facilitate the creation of new international standards if required
- Recruit new members such as vendors, ISVs, research organisations and end-users with active R&D in Europe
- Focus on the main challenges facing the European HPC industry such as: parallelisation of software, power consumption, reliability and big data.

Strategy

SRA

Research Priorities

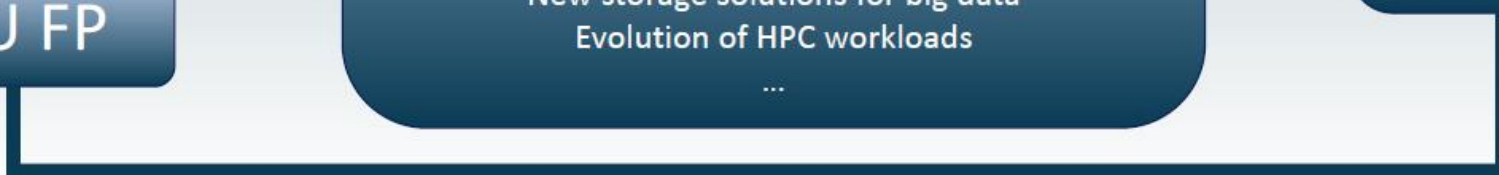
Architecture evolution
 Energy driven HPC
 Extreme parallelism
 Resiliency
 System Software
 Scaling I/O and storage with processing
 New storage solutions for big data
 Evolution of HPC workloads
 ...

Horizon
2020

ERA

EU FP

Calls
For
Proposals



ETP4HPC in a nutshell



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