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CEA Computing Centre for Research and Technology deploys new supercomputer to boost industrial innovation

The Computing Centre for Research and Technology (CCRT) partners are investing in a new supercomputer to be installed at CEA Very Large Computing Center (TGCC) in Bruyères-le-Châtel, near Paris, in May 2012.

A successful business model since 2003

Established in 2003, CCRT is a supercomputing center managed by CEA for academic and industrial partners. It has been set up to provide state-of-the-art High Performance Computing resources and services for large scientific computations while fostering a real synergy between research organizations, universities and industry. Multi-year partnerships allow joint investments in high-end systems while developing sustainable exchanges and scientific collaboration between partners.

A rich portfolio and diversity of industrial applications

CEA, AREVA (global nuclear industry leader), EADS/Astrium (global leader in aerospace), EDF (French leading energy player), INERIS (industrial risk assessment), SAFRAN (aeronautics company) teams will have access to updated high end resources.

They will be able to develop their projects and research in various areas such that: electric power plants lifespan, design and safety of nuclear power plants, aircraft and helicopter engines optimization, environmental risk assessment, protein study and genome decryption, climate change and other demanding domains for which numerical simulation is a major if not mandatory asset and tool.

A state-of-the-art, open and flexible cluster

The new supercomputer, provided by Bull, will rely on the brand new Intel® Xeon® E5-2680, aka Sandy Bridge, processors. Starting with 200 Tflop/s of peak performance, its open architecture will allow flexible evolutions to adjust to the needs of current and future partners. With this new equipment, CCRT total computing power will exceed 500 Tflop/s.

*Très Grand Centre de calcul du CEA,
Bruyères-le-Châtel (Essonne - France).*

To find out more:

<http://www-hpc.cea.fr/en/complexe/ccrt.htm>



About CEA

The French Alternative Energies and Atomic Energy Commission (CEA) leads research, development and innovation in four main areas: low-carbon energy sources, global defense and security, information technologies and healthcare technologies. The CEA's leadership position in the world of research is built on a cross-disciplinary culture of engineers and researchers, ideal for creating synergy between fundamental research and technology innovation. With its 15,600 researchers and collaborators, CEA has internationally recognized expertise in its areas of excellence and has developed many collaborations with national and international, academic and industrial partners.

To find out more about HPC at CEA:

<http://www-hpc.cea.fr/index-en.htm>