As a result of HBP SGA-1, the Qbeast framework enables to achieve the concept of interactive supercomputing and in-situ techniques to break traditional workflows in HPC simulations, converting them into more dynamic and adaptive to the needs of scientists. As a long term project, the HBP does not include in its current work plan the exploitation of such relatively small...
SMN de Buenos Aires MoU: MoU con Servicio Meteorológico Nacional de Buenos Aires
ARNAU FOLCH

CLASS: Edge and Cloud Computation: A Highly Distributed Software Architecture for Big Data Analytics
EDUARDO QUINONES MORENO
Big data applications processing extreme amounts of complex data are nowadays being integrated with even more challenging requirements such as the need of continuously processing vast amount of information in real-time. Current data analytics systems are usually designed following two conflicting priorities to provide:

(i) a quick and reactive response...

**InDust COST Action: International Network to promote the use of Dust Monitoring and Forecasting products**
SARA BASART

**MED-GOLD: Turning climate-related information into added value for traditional MEDiterranean Grape, OLive**
NUBE GONZALEZ

**LEGaTO: Low Energy Toolset for Heterogeneous Computing**
OSMAN UNSAL
Recently system integrators have dramatically increased their efforts in heterogeneous computing by integrating heterogeneous cores on die (ARM), utilizing general purpose GPUs (NVIDIA), combining CPUs and GPUs on same die (Intel, AMD), leveraging FPGAs (Altera, Xilinx), integrating CPUs with FPGAs (Xilinx), and coupling FPGAs and CPUs in the same package (IBM-Altera,...

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Mont-Blanc 2020: Mont-Blanc 2020, European scalable, modular and power efficient HPC processor

MARC CASAS
The Mont-Blanc 2020 (MB2020) project ambitions to initiate the development of a future low-power European processor for Exascale. MB2020 lays the foundation for a European consortium aiming at delivering a processor with great energy efficiency for HPC and server workloads. A first generation product is scheduled in the 2020 time frame. Our target is to reach exascale-level...

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EUCP: European Climate Prediction system
FRANCISCO J DOBLAS REYES

The European Climate Prediction system project (EUCP) has four objectives, all directly relevant to the work programme, and fully meet the challenge, scope and impact of the work programme.

1. Develop an innovative ensemble climate prediction system based on high-resolution climate models for Europe for the near-term (~1-40 years), including improved methods used to characterise...

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S2S4E: Sub-seasonal to Seasonal climate forecasting for Energy
Large scale deployment of renewable energy (RE) is key to comply with the GHG emissions reduction set by the COP21 agreement. Despite cost competitive in many settings, RE diffusion remains limited largely due to its variability. This works as a major barrier to RE’s integration in electricity networks as knowledge of power output and demand forecasting beyond a few...