BigHPC

A MANAGEMENT FRAMEWORK FOR CONSOLIDATED BIG DATA AND HPC

MISSION

BigHPC will **simplify the management of HPC infrastructures supporting Big Data and parallel computing applications.** The project will have a **direct impact on science, industry and society,** by accelerating scientific breakthroughs in different fields and increasing the competitiveness of companies through better data analysis and improved decision-support processes.

The BigHPC project aims at **improving the management of HPC data centers and supported Big Data applications,** with the following novel features:

Monitoring   Virtualization   Software-Defined Storage

EXPECTED OUTCOMES

An innovative solution that:

1 Combines novel monitoring, virtualization and software-defined storage components

2 Can cope with HPC's infrastructural scale and heterogeneity

3 Efficiently supports different workload requirements while ensuring holistic performance and resource usage

4 Can be seamlessly integrated with existing HPC Infrastructures and software stacks

5 Will be validated with pilots running in both MACC and TACC supercomputers

CONSORTIUM

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LIP   TEXAS
The University of Texas at Austin

MACC
Minho Advanced Computing Center   TACC

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