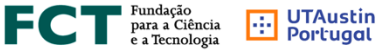
BIG HPC HIGH PERFORMANCE COMPUTING

BigHPC Project

A Management Framework for Consolidated Big Data and High-Performance Computing

Partners

Funding



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.

Expected outcomes

An innovative solution to efficiently manage parallel and Big Data workloads that:

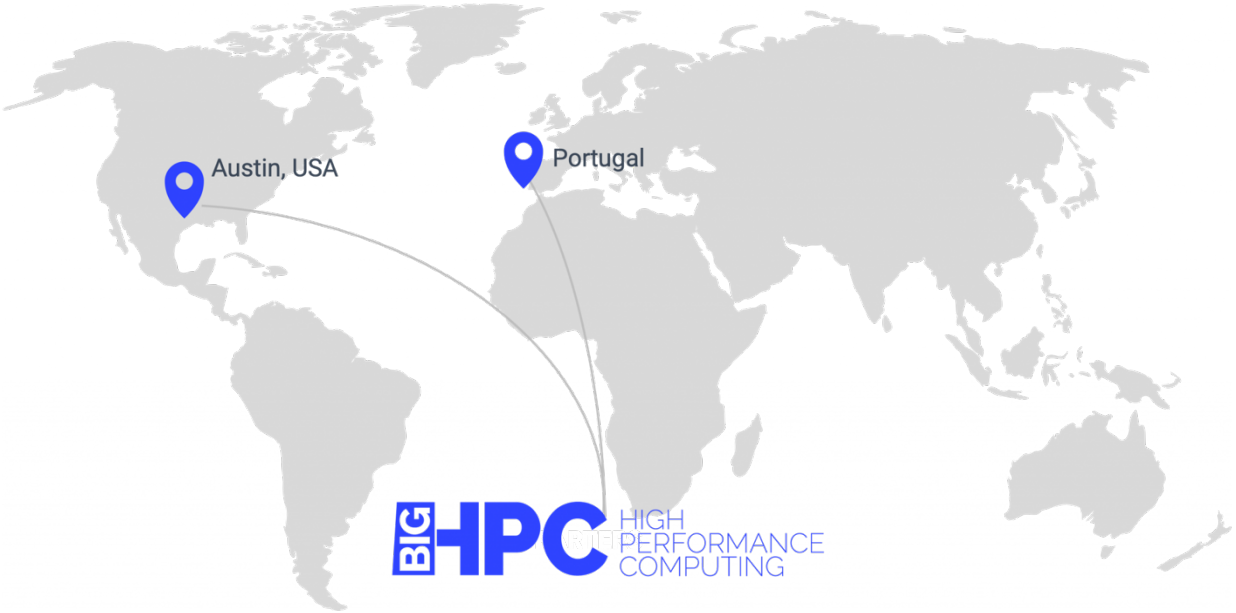
- combines novel monitoring, virtualization and software-defined storage components;
- can cope with HPC's infrastructural scale and heterogeneity;
- efficiently supports different workload requirements while ensuring holistic
- performance and resource usage;
- can be seamlessly integrated with existing HPC infrastructures and software stacks;
- will be validated with pilots running in both MACC and TACC supercomputer.

Pilot

The software components developed in BigHPC will be integrated into a single software bundle that will be validated through real use cases and a pilot deployed on both MACC and TACC supercomputers. The project's outcomes will be exploited commercially by Wavecom that will provide the devised software framework as a service.

Consortium

The BigHPC consortium is composed by six partners from academia and industry. It includes three academic internationally renowned research partners, INESC TEC and LIP (PT), UT Austin (USA), one industrial partner, Wavecom (PT), and also two different advanced computing centers MACC (PT) and TACC (USA).



More information available here.

The identity manual and logo of BigHPC project are available here.

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