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News

The Uber-Cloud Experiment: High Performance Technical Computing at Your Fingertips, the next Utility?

(Source: hpxexperiment.com)

This is an open invitation to members of the HPC community to join us for the 2nd Round of the HPC experiment, where we will apply the cloud computing service model to workloads on remote Cluster Computing resources in the areas of HPC, Computer Aided Engineering and the Life Sciences.

With the limits of our current workstations often unable to provide enough memory, simulations taking too long, and the number of jobs too small to get quality results, we are looking for increasing our available computing power beyond our workstations. Should we buy or rent? Buying additional compute power leads us to all kinds of challenges in the context of a high-performance compute cluster acquisition. Now, recently, the other option, renting resources, became more attractive, with the advent of Cloud Computing.

However, here, we face additional challenges such as security and data privacy, incompatible licensing models, moving data back and forth, and a dozen others challenges, so that it's time to experiment how to achieve the benefits of the cloud computing model for our HPC community.

You can participate in this experiment as an industrial End-User in need of instant additional computing power accessible remotely, or as a compute Resource Provider, or as a Software Provider, or as an HPC Expert. For the industry application we will identify the best suited resource provider, contact the software provider if necessary and ask for joining the team, and an HPC expert who helps to implement the application and data onto the remote resource. There is no money involved for participating in this hands-on experiment. We are all just curious to study the end-to-end process of putting the 'Team of Four' together, look for computational resource for the application, implement and run the workload, and get the final results back to the end-user.

Please fill in the Registration Form to participate in Round 2 of the experiment free of charge.

For more information:
Call for Participation
Question & Answer section
Interviews with Participants
The Uber-Cloud Half-Time report on HPCwire

Executive Summary of Round 1 Final Report

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