TUTORIAL HANDS ON BeeGFS

Submission

General Information

Title: Parallel File Systems in HPC - BeeGFS and How to Install

Abstract

Parallel storage is increasingly important for parallel computing. It enables clients to scale their storage volumes and significantly enhance their throughput. BeeGFS is one of the leading parallel cluster file systems, developed with a strong focus on performance and designed for easy installation and management. Participate in the workshop to learn more about the importance of a parallel file system in HPC, the differentiators of BeeGFS, and how to install and use it. For more information, visit www.beegfs.io.

The tutorial will be in English

Topic and Relevance

- What is a parallel file system and why use them in HPC?
- Basics of BeeGFS
- Demo: Installation of BeeGFS
- Hands-On: Install Your Own BeeGFS

The goals of this workshop are:

- Understanding the need for parallel storage in an HPC environment

- Setting up a basic BeeGFS installation and mounting a parallel file system

Resources and Duration

3h duration. The participant should have a notebook with WiFi and a SSH client installed.

Audience

Until 20 participants is acceptable

Student's Prerequisites

Laptop with an SSH client, basic Linux knowledge (RPM installation, editing of config files)

Speaker

Speaker: Ingo Martini - PreSales Consultant,
ThinkParQ/BeeGFS ingo.martini@thinkparq.com

Previous Edition

It is a novelty for this edition. Something similar was given in other event (AWS Australia) but is not the same.

Submission Guidelines

Tutorial proposals should be in English and should contain no more than three (3) pages in length.

Tutorial proposals should conform to the following outline:

- **General information:** Title of the tutorial. Organizers and Presenters names, affiliation, contact information, and brief bio. Language to be used.
- **Abstract:** one or two paragraphs suitable for inclusion in the conference registration material.
- **Topic and relevance:** A description of the tutorial topic, providing a sense of both the scope of the tutorial and depth within the scope, and a statement on why the tutorial is important and timely, how it is relevant to CARLA.
- **Resources and Duration:** Please indicate the number of sessions (4-hour each) to be delivered. Specify the equipment needs for participants (eg. pre-installed software) and if the organizers plan to give access to students to a particular platform.
- **Audience:** A description of the intended audience, prerequisite knowledge, and the expected learning outcomes. Tutorials typically have an audience of 12 ~ 20 students depending on facilities.
- **Students' prerequisites**: Indicate if your tutorial needs previous knowledge or skills from students, for instance, administration knowledge on Linux, C++ knowledge, usage of MatLab, etc.
- **Previous editions:** If the tutorial was given before, where and when was it presented? Is there any novelty for this edition?

Once the tutorials are accepted, the Steering Committee will ask for specific information, in order to properly organize the resources, and provide to all the interested students the necessary information and resources needed to fulfill the tutorial.

Proposals must be sent to the email robinson.rivas@ciens.ucv.ve and cnavarro@inf.uach.cl