



Contribution ID: 227

Type: **not specified**

## **Tuning and optimisation of parallel programs on the CHPC supercomputer**

*Sunday, 2 December 2018 15:30 (1h 30m)*

### Description:

This session will cover various aspects of analysing and optimising parallel programs to achieve optimum performance on the supercomputer. Tuning and Analysis Utilities (TAU) callgraph visualization system will demonstrate how to analyse different objects (e.g. modules, routines and functions) and identify performance bottlenecks within parallel applications.

### Target Audience:

Parallel program users, developers and administrators

### Prerequisites:

Attendees must at least have knowledge of compiling and running parallel applications on a cluster.

### Type of Tutorial:

Mix of lectures and practicals

### Special Requirements:

No need for attendees to have laptops. Presenter will demonstrate practical exercises on his laptop.

### Outline:

08:00

Registration

09:00

10:30

Morning Refreshment Break

11:00

12:30

Lunch

13:30

Tuning and optimisation of parallel programs on the CHPC supercomputer

15:00

Afternoon Refreshment Break

15:30

Tuning and optimisation of parallel programs on the CHPC supercomputer

17:00

End of Day

## **Presenter Biography**

**Primary author:** MABAKANE, SAMUEL "STICKS" (CENTRE FOR HIGH PERFORMANCE COMPUTING)

**Presenter:** MABAKANE, SAMUEL "STICKS" (CENTRE FOR HIGH PERFORMANCE COMPUTING)

**Session Classification:** Tuning and optimization of parallel programs on the CHPC cluster