Contribution ID: **46** Type: **Short talk**

On the Impact of Improving Runtime Estimates in HPC

Thursday 23 March 2023 16:40 (10 minutes)

One of the information that HPC batch schedulers use to schedule jobs on the available resources is user runtime estimates: an estimation provide by the user of how long their job will run on the machine. These estimates are known to be inaccurate, hence many work have focused on improving runtime prediction.

In this work, we start by discussing bias and limitations of the most used optimization metrics and provide elements on how to evaluate performance when studying HPC batch scheduling,

Then we study qualitatively the impact of improving runtime estimates on these various optimization criteria.

JLESC topic

scheduling in HPC

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Session Classification: Short Talks on Workflows, I/O and Frameworks

Track Classification: Programming languages and runtimes