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Running HEP Payloads on Distributed Clouds

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The University of Victoria HEP group has been successfully running on distributed clouds for several years using the CloudScheduler/HTCondor framework. The system uses clouds in North America and Europe including commercial clouds. Over the last years, the operation has been very reliably, we are regularly running several thousands of jobs concurrently for the ATLAS and Belle II experiments. Currently we are writing a new version of CloudScheduler (version 2) that aims at further increasing the scale of number of jobs to levels in excess of 10,000. Further, it will be easier to configure existing and new clouds, as well as automate more of the operation of the clouds. We describe our operation experience and review the planned changes to the system.

Desired length

15

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