Learning system to classify batch jobs
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Content:
Many disciplines require large amounts of computing resources to process their data. Jobs are usually categorized according to their processing time which is a combination of factors (CPU, I/O, disk space etc). For the user it is helpful to have a more refined categorization according to individual components such as CPU utilization, I/O usage, memory usage etc which allows the user to group their job according to resource utilization.
In this paper we describe an approach to enable a grouping based on the individual components that makes efficient use of the computing resources from the perspective of the user. The approach makes use of the Torque job submission system as well as Python applications to achieve this.

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