Road to exascale: what if end-users can help? An approach to respond to new system needs in the batch scheduler.

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Résumé

High Performance Computing (HPC) is characterized by the continuous evolution of computing architectures, the proliferation of computing resources and the increasing complexity of applications, users wish to solve. One of the
most important software of the HPC stack is the Resource and Job Management System (RJMS) which stands between the user workloads and the platform, the applications and the resources. This specialized software provides functions for building, submitting, scheduling and monitoring jobs in a dynamic computing
environment.
In order to reach exaflops HPC systems, new constraints and objectives have been introduces. This talk will present an approach to fulfill these constraints while reaching high performances with the help of end-users.

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