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## Distributed job scheduling in MetaCentrum

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MetaCentrum, Czech national grid, provides access to various resources across Czech Republic. In this talk, we will describe unique features of job scheduling system used in MetaCentrum. System is based on heavily modified Torque batch system, which is improved to support requirements of such large installation. We will describe distributed setup of several standalone servers, which can work as independent servers, while preserving global scheduling via cooperating schedulers, as well as extensions supporting scheduling of GPU jobs, support for encapsulation of jobs into virtual machines (started on-demand) or even virtual clusters (hidden in on-demand prepared private virtual network).

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