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Current development on HEP computing at KIT

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Ongoing and future HEP experiments with their growing data volumes and computing power requirements pose a constant challenge for the computing model and infrastructure.
Therefore, the HEP computing group of KIT is developing software and concepts in various projects to improve HEP computing further.
One of these developments is the transparent integration of opportunistic resources to increase the number of resources from different providers.
Furthermore, coordinated caching concepts in a distributed system help ensure sufficient data rate and reduce network load.
Coordinated caches can also facilitate data management in a distributed system with automated copies and cleanups on demand.
In addition to traditional CPU resources, KIT provides GPUs using a batch system for both local groups and Grid.
This talk will show the status and plan of our developments on opportunistic resources, distributed caching, and GPU usage over batch systems.

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