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Dynamic integration of opportunistic compute resources

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Exploitation of heterogeneous opportunistic resources is an important ingredient to fulfil the computing requirements of large HEP experiments in the future. Potential candidates for integration are Tier 3 centres, idling cores in HPC centres, cloud resources, etc. To make this work, it is essential to choose a technology which offers an easy integration of those resources into the computing infrastructure of the experiments. We present such an approach based on COBalD/TARDIS, HTCondor, CVMFS and modern virtualization technology as core components. The challenging part of dynamically integrating and subsequently removing resources with fluctuating availability and utilization is undertaken by the COBalD/TARDIS resource manager.

Speaker release

Yes

Desired slot length

20

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