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The Benefits of Using OSG for Large-Scale Physics Computing

ILYAS ADNANE, CHAMI AMARASINGHE, University of Michigan — The Open Science Grid (OSG) is a distributed computing grid that allows for numerous independent small-scale computations to be run using software from file distribution services such as the CERN-VM File System (CVMFS). Since the OSG provides a large amount of resources for uniprocessor jobs with modest memory requirements, it is ideal to use for Monte Carlo simulations and parameter sweeps. This can be useful for physics experiments that require significant computations of these tasks, such as the LZ experiment. In this presentation we discuss the capabilities of the OSG as a supplementary resource to alleviate the computing burden of such experiments.

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