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Using CernVM and EDGI to transparently use desktop resources for LHC related computation in a traditional data grid context

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Modern HEP related calculations have traditionally been beyond the capabilities of donated desktop machines, particularly because of complex deployment of the needed software.
The popularization of efficient virtual machine technology and in particular the CernVM appliance, that allows for only the needed subset of the ATLAS software environment to be dynamically downloaded, has made such computation feasible.
We report on the results of integrating the ARC Grid Middleware and the EDGI infrastructure with Virtual Machine enabled BOINC for running ATLAS related computations on publicly donated desktop machines. The approach allows the user to transparently benefit from both private and public desktop grid resources as well as standard ARC based resources.

Student? Enter 'yes'. See http://goo.gl/MVv53

no

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