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Integrating Mutiple PC Farms into an uniform computing System with Maui

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These are several on-going experiments at IHEP, such as BES, YBJ, and CMS collaboration with CERN. each experiment has its own computing system, these computing systems run separately. This leads to a very low CPU utilization due to different usage period of each experiment. The Grid technology is a very good candidate for integrating these separate computing systems into a “single image”, but it is too early to be put into a production system as it is not stable and user-friendly as well. A realistic choice is to implement such an integration and sharing with Maui, an advacned scheduler. Each PC farm is thought as a partition, which is assigned high priority to its owner users with preemtor feature. this paper will describe the detail of implementation with Maui scheduler, as well as the entire system architecture and configuration and fuctions.

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