

The Instant Glidein: A generic approach for the late-binding jobs to various resource types

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High-throughput computing requires resources to be allocated so that jobs can be run. In a highly distributed environment that may be comprised of multiple levels of queueing, it may not be certain where, what and when jobs will run. It is therefore desirable to first acquire the resource before assigning it a job. This late-binding approach has been implemented in resources managed by batch systems using the pilot jobs paradigm, with the HTCondor glidein being a reference implementation. For resources that are managed by other methods such as the IaaS alternative, other approaches for late-binding may be required. This contribution describes one such approach, the instant glidein, as a generic method for implementing late-binding for many resource types.

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