Operates on the pull model – workaround for incoming firewalls, two-factor auth
HTTP server for job queue status
Remote client:  
- Runs on cron  
- Gets idle job info from server  
- Submits glideins to local batch system
Glideins connect to main HTCondor pool at UW-Madison

New feature enhancements

Monitoring
- Improved HTCondor monitoring for the whole pool:  
  - Send condor queue, history, status to ElasticSearch  
- Send Pyglidein server and client metrics to Graphite  
- Live graphing in Grafana

Loging
- Glideins can copy their log directory to S3 every 5 minutes  
- Enabled only when debugging

Pre-checks
- Condor startd runs checks at startup to verify a good node  
  - Tests for CVMFS, OpenCL, GridFTP transfer to Madison  
- Test results added to classads for jobs to reject node

Practical usage experiences

github.com/WIPACrepo/pyglidein