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IceProd Supercomputer Mode: How IceCube Production Runs on Firewalled Clusters

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For the past several years, IceCube has embraced a central, global overlay grid of HTCondor glideins to run jobs. With guaranteed network connectivity, the jobs themselves transferred data files, software, logs, and status messages. Then we were given access to a supercomputer, with no worker node internet access. As the push towards HPC increased, we had access to several of these machines, but no easy way to use them. So we went back to the basics of running production jobs, staging data in and out and running offline jobs on the local queue. But we made sure it still integrated directly with our dataset management and file metadata systems, to not lose everything we had gained in recent years.

Consider for promotion

No

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