Experiences with BOSCO and parrot

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Experiences

- opportunistic OSG

- NERSC (HPC center at Berkely)

- SDSC (HPC center at UCSD)

Opportunistic OSG

- Used a handful of non-CMS OSG sites in fully opportunistic mode

- Parrot wrapper script, reading data remotely via xrootd, staging out data remotely via lcg-cp to a CMS T2 in the US, auto-detecting and using local proxy servers

- All worked, has been used in integration testing for months, now moving into production

- Not much resources, was basically our platform to validate this works

NERSC

- Have an allocation, but not for bulk production, more for testing capabilities and high core / high memory type workflows

- Have a grid interface, but only allows access to one of their local batch queues, seems experimental

- Have working access via BOSCO style submission, integrated into glideinWMS

- Setting up the parrot wrapper script and configuration at the moment

- Planning to use without local cvmfs, storage or proxy servers for now (will reevaluate if necessary)

SDSC

- Have a sizable allocation that we want to use for (specialized) bulk production

- Only allows local batch access AFAIK

- Setting up access via BOSCO style submission right now (determine production account, ssh key etc)

- Parrot wrapper will likely be used, but only to serve SITECONF. SDSC will provide cvmfs locally. Local proxy servers within the SDSC network will also be provided.

- Have storage as part of our allocation, will integrate it into the CMS data bookkeeping system

Summary

- The use of BOSCO style submission and parrot wrapper scripts to support non-CMS sites was mostly integration work so far.

- CMS is moving this into production right now though, on multiple fronts.