

EXPERIENCES WITH OSG 3.0 VALIDATION AT OU

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Outline

- Introduction
- Remaining Issues
- Summary

Introduction

- Did ITB Validation of OSG CE 3.0.8 on OUHEP_ITB in Jan/Feb
- Worked reasonably well after a few iterations where developers addressed first RPM dependency issues, then some functional problems
- But several issues still remain



Gratia Issues

- At first, Gratia cron wasn't finding our Condor in /opt/condor to process history files
- Had to add CondorLocation in /etc/gratia/condor/ProbeConfig
- Will be fixed in next release, but to my knowledge hasn't yet
- Bockjoo had similar problem last week which isn't fully understood yet
- He got it fixed, but it's not clear yet which of the several steps he took actually fixed it



RSV Issues

- RSV couldn't find our Condor in /opt/condor, either
- Required a fix to one of the RSV RPMs
- Still had to add it to /etc/sysconfig/condor-cron manually
- Permanent fix for this will be in the next release
- Then, condor_location in config.ini RSV section will suffice
- Still problem with RSV claiming PER_JOB_HISTORY_DIR not set and not found by condor_config_val
- Neither of which is true, since it's there and found
- Possibly also because of condor_location, but AFAIK, no known fix for this yet



GT5 / IPv6 Issues

- gratia-probe-gridftp-transfer.cron occasionally throws error mail
- Traced to netlogger's inability to parse IPv6 address in gridftp log
- Tanya and netlogger team working on it – no known fix yet
- Also, Brazilian site reported globus not starting because ipv6 address not available in their ifconfig output
- One possible fix seems to be to turn NETWORKING_IPV6=yes in /etc/sysconfig/network, which I don't believe is acceptable
- Also, OUHEP_ITB did not turn ipv6 on, yet no such problem
- Real Issue and minimal fix not clear yet
- Bockjoo also reported several gt5 errors related to glite/EMI jobs



GIP Issues

- OUHEP_ITB is reporting to WLCG in order to be able to get CVMFS releases validated
- <http://gstat-prod.cern.ch/gstat/summary/Country/USA/> now claims that our sites has 1 Billion CPUs since the OSG 3.0 upgrade
- config.ini has not been changed from before the upgrade, we advertise 9 CPUs
- Fix found yesterday – RPM update replaced 30-gip.ini template
- Also, Bockjoo reported that osg-version is not reporting currently
- Will be fixed in the next version



Service startup/shutdown

- Currently, no equivalent of vdt-control –on/off
- This is step backwards from OSG 1.2 and serious disadvantage for site admins
- OSG team working on it – osg-control – but no ETA yet



Summary

- OSG 3.0 is in reasonably good shape – for a software package as “young” as it is
- Developers are working very hard to fix issues as they arise
- But there are still several issues not completely understood – and we don’t know how many other issues will arise as more sites start using it in production
- But IMHO it is not completely ready for stable large scale production yet, and I won’t install it at OU_OCCHP_SWT2 until I’m convinced that all issues are ironed out, and have seen it in large scale production at other sites for a few months
- I like to learn from OTHER people’s problems ;-)



Summary (cont.)

- Anything else I feel is irresponsible for a production site – particularly since OSG 3.0 does not deliver anything that OSG 1.2 currently doesn't
- **OU_OCCHP_SWT2 is extremely stable site, and I'd like to keep it that way! If it ain't broke, don't fix it.**

