
GT 4.2.1 GRAM4: Quality Profile

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<titleabbrev>Quality Profile</titleabbrev>

1. Test coverage reports

- [4.2.1 Testing Status Report](#)¹

2. Code analysis reports

- No code analysis reports have been generated at this time.

3. Outstanding bugs

- [Bug 3384](#):² Inconsistent jobType/count parameter semantics
- [Bug 3529](#):³ setup/postinstall fatal errors should be warnings
- [Bug 3575](#):⁴ SEG dependent on GLOBUS_LOCATION env var
- [Bug 3748](#):⁵ WS-GRAM Pluggable Resource Manager Backend
- [Bug 3803](#):⁶ Default scratchDirectory doesn't exist
- [Bug 3892](#):⁷ Out of date performance data?
- [Bug 3948](#):⁸ Service must release all of its resources on deactivation
- [Bug 4181](#):⁹ Allow File Staging To/From globusrun-ws application without an external server
- [Bug 4182](#):¹⁰ Improve Condor/Fork Job Monitoring for reliability and security

¹ ../reports/tests/

² http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=3384

³ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=3529

⁴ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=3575

⁵ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=3748

⁶ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=3803

⁷ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=3892

⁸ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=3948

⁹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4181

¹⁰ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4182

- [Bug 4513](#):¹¹ LD_LIBRARY_PATH should not be set if no library_path is specified
- [Bug 4550](#):¹² Multijob code not checking for existence of job credential
- [Bug 4684](#):¹³ Loading persisted jobs with expired delegation resources causes stacktraces
- [Bug 4719](#):¹⁴ globus runs /usr/bin/env without checking for \u
- [Bug 4734](#):¹⁵ Missing wsa:Action for GRAM4 rendezvous register operations
- [Bug 4761](#):¹⁶ Scheduler Tutorial is missing WS-GRAM setup package
- [Bug 4778](#):¹⁷ WS-Fork job manager doesn't set environment up for mpi jobs
- [Bug 4787](#):¹⁸ no lifetime management for WS Rendezvous
- [Bug 4817](#):¹⁹ Condor OS and ARCH do not have dynamic defaults
- [Bug 4864](#):²⁰ environment variables containing '=' get escaped
- [Bug 4918](#):²¹ user account details are cached even for unknown users
- [Bug 4944](#):²² Multijob resources never yield to memory pressure and can't be destroyed
- [Bug 5012](#):²³ Container in livelock state for an incorrectly mapped DN
- [Bug 5017](#):²⁴ gram[24] tests that need to be updated
- [Bug 5397](#):²⁵ GRAM4 recovery of persisted job resources needs to be reviewed
- [Bug 5402](#):²⁶ "invalid password" error messages
- [Bug 5433](#):²⁷ public interface doc lists non-public/internal APIs
- [Bug 5471](#):²⁸ GRAM Jobs Hang in Unsubmitted State
- [Bug 5484](#):²⁹ Review and Update 4.2 GRAM doc
- [Bug 5515](#):³⁰ Destruction of subscription resources in a container shutdown/restart

¹¹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4513

¹² http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4550

¹³ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4684

¹⁴ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4719

¹⁵ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4734

¹⁶ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4761

¹⁷ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4778

¹⁸ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4787

¹⁹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4817

²⁰ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4864

²¹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4918

²² http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=4944

²³ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5012

²⁴ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5017

²⁵ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5397

²⁶ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5402

²⁷ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5433

²⁸ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5471

²⁹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5484

³⁰ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5515

- [Bug 5516](#).³¹ Destruction of subscription resources in a container shutdown/restart
- [Bug 5611](#).³² GramJob API changes to improve performace and efficiency
- [Bug 5698](#).³³ Allow a prologue/epilogue script for 'mpi' and 'multiple' jobs
- [Bug 5712](#).³⁴ Gram auditing: local_job_id format variations
- [Bug 5713](#).³⁵ GRAM auditing: Failed database connection loses audit records
- [Bug 5714](#).³⁶ GRAM Auditing: additional data in audit records
- [Bug 5725](#).³⁷ Gram auditing: housekeeping for the auditRecords database
- [Bug 5770](#).³⁸ GRAM4 auditing: inconsistent data in job_description column of DB
- [Bug 5776](#).³⁹ GRAM4 auditing: Need for an INFO log message
- [Bug 5777](#).⁴⁰ GRAM2 auditing: database connection times out
- [Bug 5778](#).⁴¹ GRAM2 auditing: no error message on db update failure
- [Bug 5805](#).⁴² Change threadpools from Gram custom implementation to java.util.concurrent
- [Bug 5820](#).⁴³ Improve Condor Logfile Processing in GRAM
- [Bug 5843](#).⁴⁴ Swap custom threadpool with ExecutorServices from java.util.concurrent
- [Bug 5853](#).⁴⁵ create automated tests for globus-job-*-ws programs
- [Bug 5859](#).⁴⁶ Java GramJob getExitCode() always returns 0
- [Bug 5969](#).⁴⁷ GRAM Job submission failed!!!
- [Bug 6002](#).⁴⁸ globusrun-ws hangs indefinitely
- [Bug 6019](#).⁴⁹ CEDPS: Add executable path to log statement
- [Bug 6043](#).⁵⁰ Confusing JobID in timeout message

³¹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5516

³² http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5611

³³ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5698

³⁴ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5712

³⁵ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5713

³⁶ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5714

³⁷ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5725

³⁸ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5770

³⁹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5776

⁴⁰ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5777

⁴¹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5778

⁴² http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5805

⁴³ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5820

⁴⁴ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5843

⁴⁵ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5853

⁴⁶ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5859

⁴⁷ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5969

⁴⁸ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6002

⁴⁹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6019

⁵⁰ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6043

- [Bug 6065](#).⁵¹ Deleting delegated credential does not work
- [Bug 6069](#).⁵² JDD documentation issues
- [Bug 6072](#).⁵³ specification of RAM per process in parallel jobs
- [Bug 6091](#).⁵⁴ GRAM4 JDD substitution detection is too broad
- [Bug 6192](#).⁵⁵ Apply relevant VDT patches
- [Bug 6204](#).⁵⁶ Drain Mode for the GRAM service
- [Bug 6279](#).⁵⁷ document streaming overhead in globusrun-ws
- [Bug 6289](#).⁵⁸ ws-gram multiJob submissions fail with extensions element
- [Bug 6351](#).⁵⁹ Infinite loop in org.globus.exec.service.utils.UserProxyCreator
- [Bug 6387](#).⁶⁰ add service security descriptor checks in job submission

4. Bug Fixes

- [Bug 5617](#).⁶¹ GRAM4 seg hangs with fork jobs
- [Bug 5831](#).⁶² Changes in GramJob in Gram 4.2
- [Bug 5977](#).⁶³ Add user's DN to INFO logging statement for each job submission
- [Bug 5982](#).⁶⁴ GRAM handles lack of local username badly(java.lang.NullPointerException)
- [Bug 6102](#).⁶⁵ GRAM4 throughput tester for 4.2
- [Bug 6172](#).⁶⁶ Bad error message for "file not found"
- [Bug 6271](#).⁶⁷ Proxy cleanup doesn't check for authz callouts, uses grid-mapfile check
- [Bug 6272](#).⁶⁸ Proxy cleanup doesn't check for authz callouts, uses grid-mapfile check
- [Bug 6283](#).⁶⁹ globusrun-ws doesn't resolve IP addresses to host names

⁵¹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6065

⁵² http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6069

⁵³ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6072

⁵⁴ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6091

⁵⁵ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6192

⁵⁶ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6204

⁵⁷ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6279

⁵⁸ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6289

⁵⁹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6351

⁶⁰ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6387

⁶¹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5617

⁶² http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5831

⁶³ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5977

⁶⁴ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=5982

⁶⁵ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6102

⁶⁶ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6172

⁶⁷ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6271

⁶⁸ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6272

⁶⁹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6283

- [Bug 6320](#):⁷⁰ Audit logging with PostgreSQL fails in 4.2
- [Bug 6327](#):⁷¹ Add support for Derby
- [Bug 6333](#):⁷² Provide support for a common user home for testing purposes
- [Bug 6341](#):⁷³ Infinite loop and blocking in org.globus.exec.service.utils.DelegatedCredential
- [Bug 6349](#):⁷⁴ Infinite loop and blocking in org.globus.exec.service.utils.DelegatedCredential
- [Bug 6357](#):⁷⁵ Changes in current Gram4 audit logging

5. Performance reports

- No code performance reports have been generated at this time.

⁷⁰ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6320

⁷¹ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6327

⁷² http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6333

⁷³ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6341

⁷⁴ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6349

⁷⁵ http://bugzilla.globus.org/bugzilla/show_bug.cgi?id=6357