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Check bugs:

- **BUG #47612** : There's a mem leak in ICE in the handling the returned sequence code **HOPEFULLY FIXED**
 - ◆ Not reproducible
- **BUG #47853** : ICE should provide info to be used by WMSMonitor **FIXED**
 - ◆ There is a new tool: */opt/glite/bin/queryDb*

```
USAGE: queryDb --conf|-c <WMS CONFIGURATION FILE> [options]
```

```
options:
```

```
--verbose|-v          Verbose output (print each db's record
--status-filter|-s    Select only records in which the status column is one
                      of those specified as option argument; more states can
                      be ',' separated and they must be:
                      REGISTERED
                      PENDING
                      IDLE
                      RUNNING
                      REALLY_RUNNING
                      CANCELLED
                      HELD
                      ABORTED
                      DONE_OK
                      DONE_FAILED
                      UNKNOWN
                      PURGED

--userdn|-u          Print the USERDN column of the job table
--creamjobid|-C      Print the CREAM JOB ID column of the job table
--gridjobid|-G       Print the GRID JOB ID column of the job table
--userproxy|-p       Print the USER PROXY column of the job table
--cream-url|-r       Print the CREAM URL column of the job table
--myproxy-url|-m     Print the MYPROXY URL column of the job table
--status|-S          Print the STATUS column of the job table
--lease-id|-L        Print the LEASE-ID column of the job table
--delegation-id|-D  Print the DELEGATION-ID column of the job table
--proxy-exptime|-t   Print the PROXY EXPIRATION TIME column of the job table
--worker-node|-w     Print the WORKER-NODE column of the job table
--help|-h            Print this help
```

- **BUG #47911** : Performance problems in ICE when there many (thousands) proxy files to manage **HOPEFULLY FIXED**
 - ◆ See tests below
- **BUG #48905** : Failure in starting ICE if its output jobdir doesn't exist **FIXED**
 - ◆ In the WMS configuration file, section "WorkloadManager", set DispatcherType = "jobdir"
 - ◆ Make sure that the file/directory pointed by the Input="..." attribute does not exist
 - ◆ Now, start ICE and see if the directory pointed by the Input="..." attribute gets created automatically.
- **BUG #52884** : ICE uses too much memory **HOPEFULLY FIXED**
 - ◆ See tests below

TESTs on ICE

16) Test starts on Tue Jul at 7 09:27:28 CEST 2009 (WMS: devel20)

Description:

- 2880 collections each of 40 jobs
- One collection every 60 seconds
- Four users
- max_ice_threads = 10
- Used all the CEs of testbedB (except cert-07.cnaf and cream-25.pd)
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 8 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 4242"
- Resubmission is enabled
- Lease mechanism is not used
- Notification mechanism is NOT used: *start_listener = false;*
- Use "jobdir" input mechanism

- Changes in the software wrt previous test:
 - ◆ ICE
 - ◇ Retrying some times on generic database exception before giving up
 - ◇ Fixed several SQL syntax error
 - ◇ Sleeping less time between a request fetch and subsequent... (useful when running with few threads)
 - ◇ Loading # of request from filelist/jobdir equal to # of threads * Do not drop notification

Submissions finish on Thu Jul 9 at 09:28:42 CEST 2009

- 2870 collections submitted in 17460 seconds: 3/6/40 (min/avg/max)
 - ◆ 10 submissions fail

Partial results taken on Fry Jul 10 at 10:57:09 CEST 2009

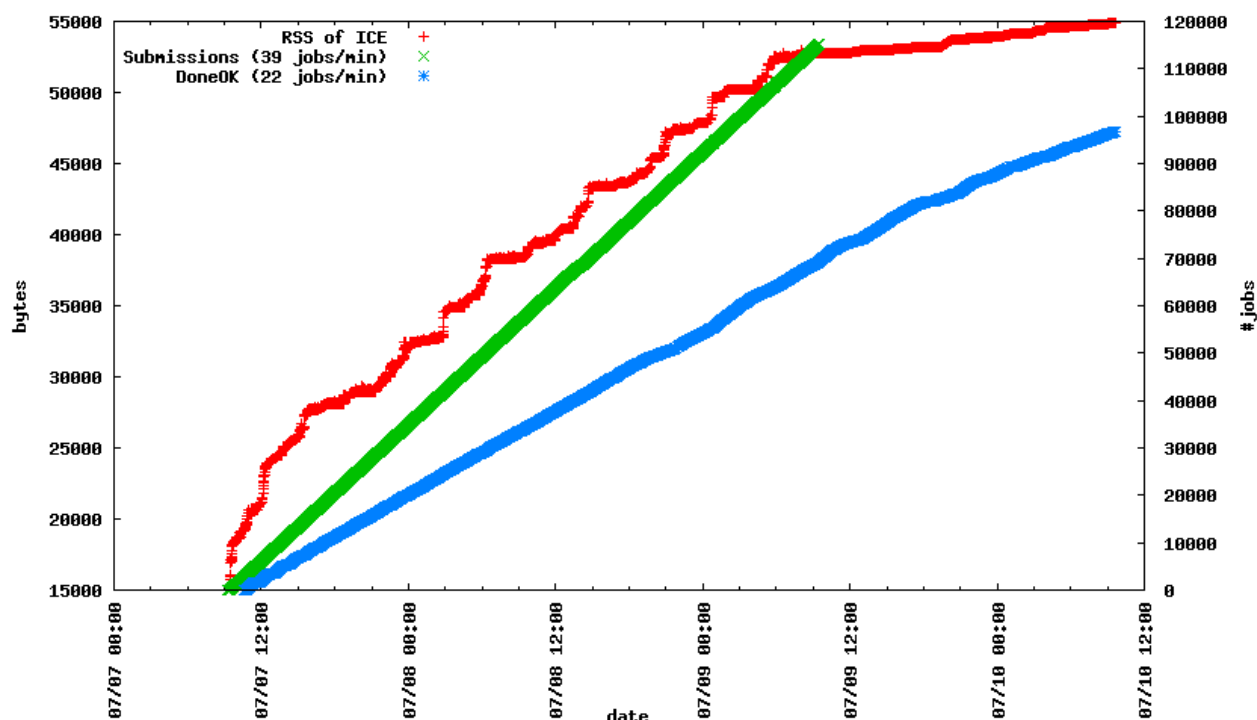
- Collections correctly submitted: 2870 (114800 jobs)
 - ◆ DONE OK: 96950 (84.45%)
 - ◆ NOT TERMINATED: 17850 (15.55%)
 - ◆ ABORTED: 0 (0%)
 - ◆ Resubmitted: 475 (0.41%)

- Errors found (478)
 - ◆ BLAH error (*1 time*)
 - ◇ submission command failed (exit code = 120) (stdout:) (stderr:glexec policy violation: see glexec log for more details-) N/A (jobId = CREAM469174928)
 - ◆ Cannot take token (*2 times*)
 - ◆ lsf_reason=1603 (*1 time*)
 - ◆ Cannot move ISB [...] : proxy expired (*326 times*) *
 - ◆ Transfer to CREAM failed due to exception (*38 times*)
 - ◇ Transfer to CREAM failed due to exception: CREAM Register raised std::exception Received NULL fault; the error is due to another cause: FaultString=[] -

FaultCode=[SOAP-ENV:Server.generalException] -
 FaultSubCode=[SOAP-ENV:Server.generalException] -
 FaultDetail=[invoke2009-07-07T18:13:00.260Z0cannot write the authN proxy to file:
 nullcannot write the authN proxy to file:
 nullorg.glite.ce.faults.AuthenticationFaultcream-34.pd.infn.it] (1 time)

- ◇ CREAM Register raised std::exception Connection to service
 [https://cream-XX.pd.infn.it:8443/ce-cream/services/CREAM2] failed: (33 times)
- ◇ CREAM Register raised std::exception Received NULL fault; the error is due to
 another cause: FaultString=[Client fault] - FaultCode=[SOAP-ENV:Client] -
 FaultSubCode=[SOAP-ENV:Client] (3 times)
- ◇ CREAM Start raised exception Connection to service
 [https://cream-33.pd.infn.it:8443/ce-cream/services/CREAM2] failed: (1 time)

- ◆ Proxy is expired; Proxy expired: job killed Terminated Master process killed (30 times) *
- ◆ pbs_reason=1 (80 times) *



NOTE

- Open bug #52934 for *
- Open bug #52937

15) Test starts on Fri Jul 3 at 15:41:35 CEST 2009 (WMS: devel20)

Description:

- 1440 collections each of 40 jobs
- One collection every 60 seconds
- Four users
- max_ice_threads = 7
- Used all the CEs of testbedB (except cert-07.cnaf and cream-25.pd)
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 8 hours of lifetime (and it is renewed every 4 hours)

- The job is a "sleep 4242"
- Resubmission is enabled
- Lease mechanism is not used
- Notification mechanism is NOT used: *start_listener = false;*
- Use "jobdir" input mechanism

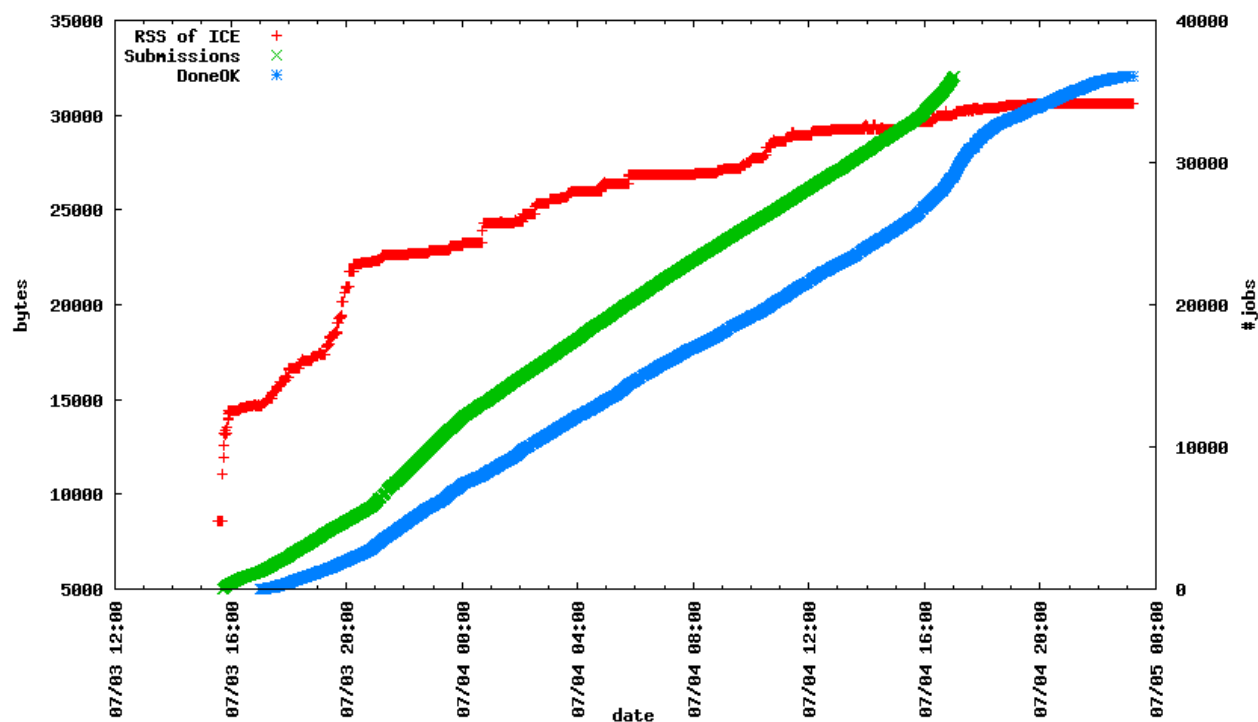
Submissions finish on Sat Jul 4 at 15:39:00 CEST 2009

- 902 collections submitted in 13717 seconds: 9/15/72 (min/avg/max)
 - ◆ 538 submissions fail

Final results taken on Fry Jul 6 at 09:42:38 CEST 2009

- Collections correctly submitted: 902 (36080 jobs)
 - ◆ DONE OK: 36080 (100%)
 - ◆ NOT TERMINATED: 0 (0%)
 - ◆ ABORTED: 0 (0%)
 - ◆ Resubmitted: 3 (0.008%)
- Errors found (3)
 - ◆ Proxy is expired; Proxy expired: job killed Terminated Master process killed
 - ◇ https://devel15.cnaf.infn.it:9000/QKr_yraP3i9swoS8sfQIDw
 - ◆ Transfer to CREAM failed due to exception: CREAM Register raised std::exception Received NULL fault; the error is due to another cause: FaultString=[Client fault] - FaultCode=[SOAP-ENV:Client] - FaultSubCode=[SOAP-ENV:Client]
 - ◇ https://devel15.cnaf.infn.it:9000/rCVZEFQRNAXcUp_qIx7uxg
 - ◆ Transfer to CREAM failed due to exception: CREAM Register raised std::exception Received NULL fault; the error is due to another cause: FaultString=[] - FaultCode=[SOAP-ENV:Server.generalException] - FaultSubCode=[SOAP-ENV:Server.generalException] - FaultDetail=[invoke2009-07-03T19:59:40.008Z0USER_VO_LABEL not defined in msgContextUSER_VO_LABEL not defined in msgContextorg.glite.ce.faults.AuthenticationFaultcert-05.cnaf.infn.it]
 - ◇ <https://devel15.cnaf.infn.it:9000/U2jU66zK2JqK7-b9Y10FMg>

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14) Test starts on Thu Jun 25 at 15:24:56 CEST 2009 (WMS: devel20)

Description:

- 7200 collections each of 40 jobs
- One collection every 60 seconds
- Four users
- max_ice_threads = 20
- Used all the CEs of testbedB (except cert-07.cnaf and cream-25.pd)
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 8 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 4242"
- Resubmission is enabled
- Lease mechanism is not used
- Notification mechanism is used: *start_listener = true;*
- Use "jobdir" input mechanism

Submissions finish on Wed Jul 1 at 05:11:15 CEST 2009

- 4573 collections submitted in 124424 seconds: 6/27/505 (min/avg/max)
 - ◆ 2627 submissions fail due to load limiter
 - ◆ 10 submissions fail at wmpoxy level due to a LB error

Final results taken on Fry Jul 3 at 15:42:38 CEST 2009

- Collections correctly submitted: 4533 (182520 jobs)
 - ◆ DONE OK: 181893 (99.66%)
 - ◆ NOT TERMINATED: 0 (0%)
 - ◆ ABORTED: 627 * (0.34%)
 - ◆ Resubmitted: 3150 (1.73%)

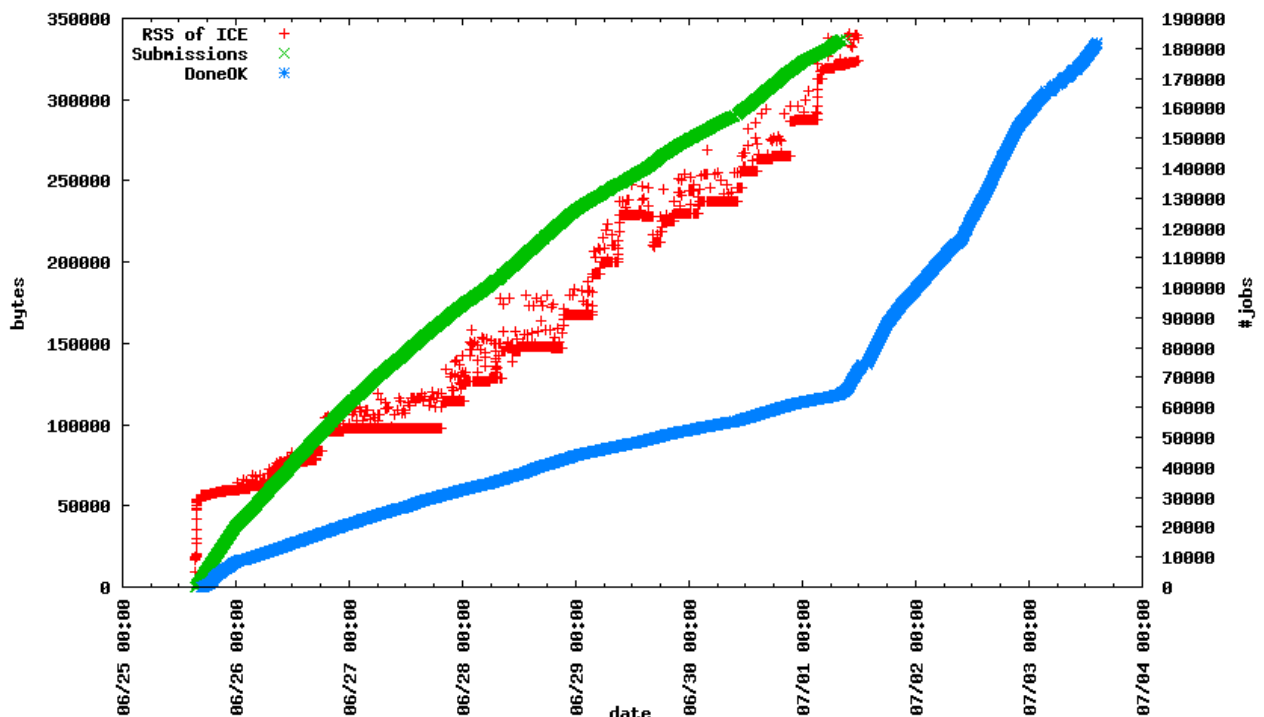
Final results taken on Fry Jul 6 at 09:42:38 CEST 2009

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- Errors found (5302)
 - ◆ BLAH error (17 times)
 - ◇ blah error: send command timeout (14 time)
 - ◇ no jobId in submission script's output (stdout:) (stderr: exe_getouterr: 200 seconds timeout expired, killing child process.-) N/A (3 times)
 - ◆ Cannot move ISB: (2540 times)
 - ◇ [...] Error with GSI credential globus_sysconfig: Could not find a valid trusted CA certificates directory globus_sysconfig: Error getting password entry for current user: Error occured for uid: 1656 [...] (298 times)
 - ◇ [...] : proxy expired (2160 times)
 - ◆ Transfer to CREAM failed due to exception: (2134 times)
 - ◇ Authentication error: Unable to open the file
[var/glite/SandboxDir/I6/https_3a_2f_2fdevel15.cnaf.infn.it_3a9000_2fI6T7Z-FDo9uzJ_5f30 : No such file or directory (2107 times) *
 - ◇ CREAM Register raised std::exception Received NULL fault; the error is due to another cause: FaultString=[Client fault] - FaultCode=[SOAP-ENV:Client] - FaultSubCode=[SOAP-ENV:Client] (4 times)
 - ◇ CREAM Register returned error "MethodName=[jobRegister] Timestamp=[Tue 30 Jun 2009 14:16:53] ErrorCode=[0] Description=[system error] FaultCause=[cannot create the job's working directory! The problem seems to be related to glxec [glxec reported = "glxec policy violation: see glxec log for more details"]]" (13 times)
 - ◇ CREAM Register returned error "MethodName=[jobRegister] Timestamp=[Sat 27 Jun 2009 13:51:57] ErrorCode=[0] Description=[system error] FaultCause=[org.glite.ce.common.db.DatabaseException: Rollback executed due to: Lock wait timeout exceeded; try restarting transaction]" (10 times)
 - ◆ Proxy is expired (312 times)
 - ◆ pbs_reason=1 (299 times)

NOTE

- Open bug #52710 for *



13) Test starts on Jun 17 at 18:06:55 CEST 2009 (WMS: devel20)

Description:

- 7200 collections each of 40 jobs
- One collection every 60 seconds
- Four users
- max_ice_threads = 20
- Used all the CEs of testbedB (except cert-07.cnaf)
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 8 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 4242"
- Resubmission is enabled
- Lease mechanism is not used
- Notification mechanism is not used: *start_listener = false;*
- Use "jobdir" input mechanism

- Changes in the software wrt previous test:
 - ◆ ICE
 - ◇ fixed a wrong sql query
 - ◇ Transaction to database is tried indefinitely (no more DbLockedException can be thrown)
 - ◇ new SQL commands to get the terminated jobs from the database
 - ◇ new indices on table jobs

Submissions finish on Mon Jun at 22 18:06:38 CEST 2009

- 5220 collections submitted in 85950 seconds: 5/16/77 (min/avg/max)
 - ◆ 1980 submissions fail due to load limiter

Final results

- Collections correctly submitted: 5220 (208800 jobs)
 - ◆ DONE OK: 207628 (99.44%)
 - ◆ NOT TERMINATED: 910 (0.44%)
 - ◆ ABORTED: 262 (0.12%)
 - ◆ Resubmitted: 3398 (1.63%)

- Errors found (4500)
 - ◆ Cannot move ISB: (322 times)
 - ◆ Transfer to CREAM failed due to exception: (3896 times)
 - ◇ CREAM Register returned error "MethodName=[jobRegister] Timestamp=[Wed 17 Jun 2009 22:42:08] ErrorCode=[0] Description=[system error] FaultCause=[Batch System lsf not supported!]" (982 times)
 - ◇ CREAM Register raised std::exception The endpoint is blacklisted (1794)
 - ◇ CREAM Start raised exception The endpoint is blacklisted (30 times)
 - ◇ CREAM Register returned error "MethodName=[jobRegister] Timestamp=[Mon 22 Jun 2009 09:22:49] ErrorCode=[0] Description=[system error] FaultCause=[org.glite.ce.common.db.DatabaseException: Rollback executed due to: Lock wait timeout exceeded; try restarting transaction]" (164 time)
 - ◇ Authentication error: Unable to open the file
[/var/glite/SandboxDir/XP/https_3a_2f_2fdevel15.cnaf.infn.it_3a9000_2fXPAysgaAaUdQrjs2

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: No such file or directory (922 times)

◇ CREAM Register raised std::exception Received NULL fault; the error is due to another cause: FaultString=[Client fault] - FaultCode=[SOAP-ENV:Client] - FaultSubCode=[SOAP-ENV:Client] (4 times)

◆ pbs_reason (16 times)

◇ pbs_reason=1 (13 times)

◇ pbs_reason=271 (3 times)

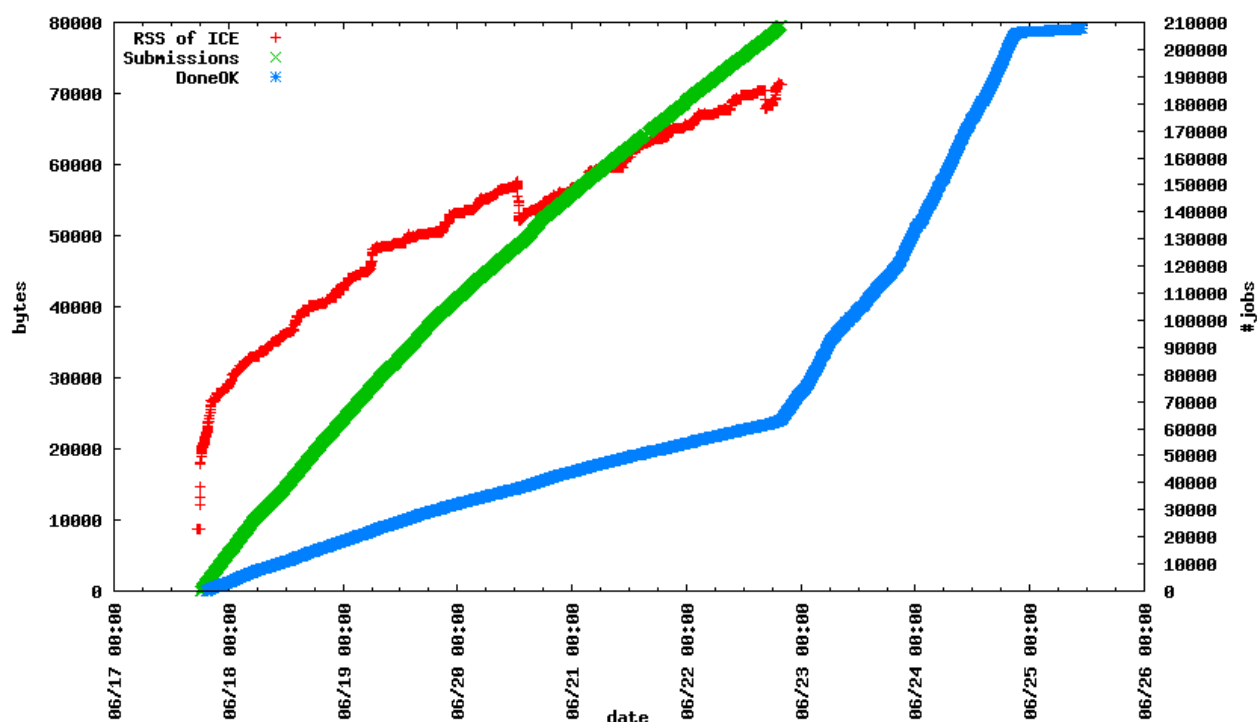
◆ Proxy is expired (251 times)

◆ BLAH error (15 times)

◇ exit code = -15 (12 times)

◇ exit code = 1 (2 times)

◇ exit code = 120 (1 time)



NOTE:

- The 982 errors "**Batch System lsf not supported**" are due to a malconfigured CE wrongly attached to the BDII of the testbed
- The 910 "**non terminated**" jobs are matched to cream-25.pd.infn.it which dyes (due to a hardware problem) during the test
- The error "**The endpoint is blacklisted**" means that a timeout occurs during the CE connection

12) Test starts on Fri Jun 12 at 15:59:59 CEST 2009 (WMS: devel20)

Description:

- 4320 collections each of 40 jobs
- One collection every 60 seconds
- Four users
- max_ice_threads = 20
- Used all the CEs of testbedB (except cert-07.cnaf)
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")

Final results

- Proxy has 8 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 2424"
- Resubmission is enabled
- Lease mechanism is not used
- Notification mechanism is not used: *start_listener = false*;
- Use "jobdir" input mechanism

- Changes in the software wrt previous test:
 - ◆ ICE
 - ◇ fixed bad handling of decrement of the job counter for the better proxy
 - ◇ removing delegation if the better proxy is not there anymore
 - ◆ CE
 - ◇ Update BLAH rpm
 - ◇ Add some more logs to JobWrapper stdout for debugging purpose

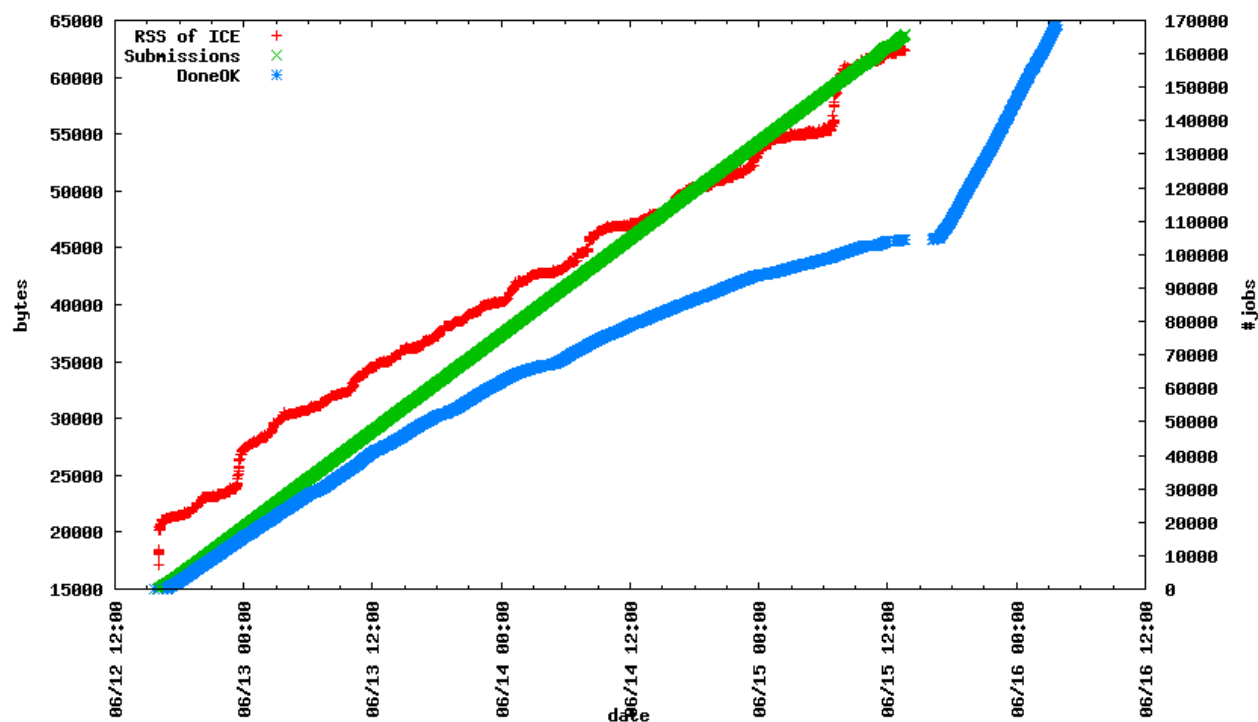
Submissions finish on Mon Jun 15 at 15:57:55 CEST 2009

- 4219 collections submitted in 39736 seconds: 4/9/97 (min/avg/max)
 - ◆ 101 submissions fail due to load limiter

Final results

- Collections correctly submitted: 4219 (168760 jobs)
 - ◆ DONE OK: 168748 (99.99%)
 - ◆ NOT TERMINATED: 12 (0.01%)
 - ◆ ABORTED: 0 (0%)
 - ◆ Resubmitted: 2414 (1.43%)

- Errors found (2446)
 - ◆ Cannot move ISB: (18 times)
 - ◆ Transfer to CREAM fails: (1948 times)
 - ◇ CREAM Register raised std::exception Received NULL fault; the error is due to another cause: FaultString=[] - FaultCode=[SOAP-ENV:Server.generalException] - FaultSubCode=[SOAP-ENV:Server.generalException] - FaultDetail=[invoke2009-06-13T06:23:42.151Z0cannot write the authN proxy to file: nullcannot write the authN proxy to file: nullorg.glite.ce.faults.AuthenticationFaultcream-34.pd.infn.it]
 - ◇ CREAM Start raised exception Received NULL fault; the error is due to another cause: FaultString=[] - FaultCode=[SOAP-ENV:Server.generalException] - FaultSubCode=[SOAP-ENV:Server.generalException] - FaultDetail=[invoke2009-06-14T07:00:11.781Z0USER_VO_LABEL not defined in msgContextUSER_VO_LABEL not defined in msgContextorg.glite.ce.faults.AuthenticationFaultcream-32.pd.infn.it]
 - ◇ Failed to create a delegation id for job
https://devel15.cnaf.infn.it:9000/00-d12pjYkJYAIz_eHUiCg : reason is Connection to service [https://cream-21.pd.infn.it:8443/ce-cream/services/gridsite-delegation] failed: (1946 times)
 - ◆ Cannot take token (3 times)
 - ◆ lsf_reason=65280
 - ◆ pbs_reason=271 (3 times)
 - ◆ Proxy is expired (473 times)



11) Test starts on Fri May 29 at 18:20:13 CEST 2009 (WMS: devel20)

Description:

- 4320 collections each of 40 jobs
- One collection every 60 seconds
- Four users
- max_ice_threads = 20
- Used all the CEs of testbedB (except cert-07.cnaf)
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 5 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 2424"
- Resubmission is enabled
- Lease mechanism is not used
- Notification mechanism is not used *start_listener = false;*
- Use "jobdir" input mechanism

Submissions finish on Mon Jun 1 at 18:17:14 CEST 2009

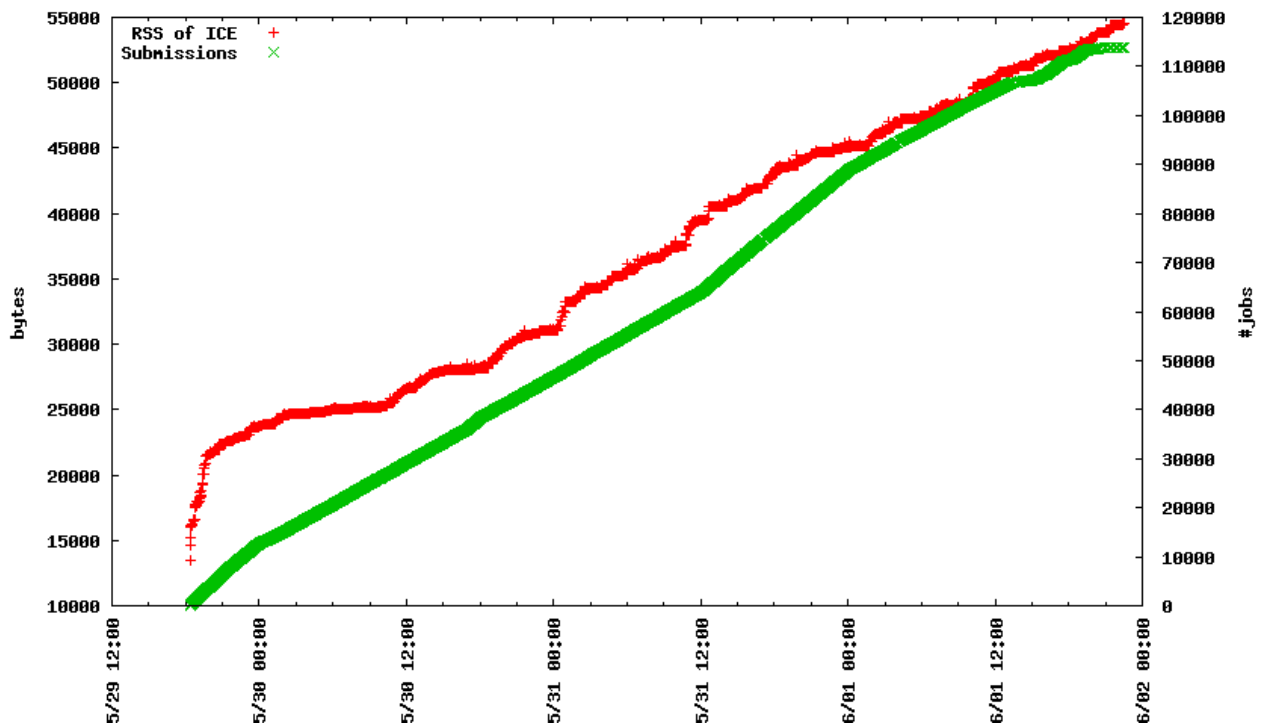
- 2788 collections submitted in 32565 seconds: 5/11/77 (min/avg/max)
 - ◆ 1532 submission(s) fail(s) due to load limiter

Final results taken on Wed Jun 3 at 16:23:46 CEST 2009

- Collections correctly submitted: 2788 (111520 jobs)
 - ◆ DONE OK: 110757 (99.318%)
 - ◆ NOT TERMINATED: 2 (0.002%)
 - ◆ ABORTED: 761* (0.68%)
 - ◆ Resubmitted: 5131 (4.6%)

(Note: the 760 jobs aborted are exactly 19 collections which stay in the ice queue too long, so their proxy expired)

- Errors found (7620)
 - ◆ BLAH error: (1030 times)
 - ◇ blah error: send command timeout: (41 times)
 - ◇ submission command failed (exit code = 1) (stdout:) (stderr:pps: Queue has been closed. Job not submitted.-TERM environment variable not set.-) N/A (887 times)
 - ◇ BLAH error: submission command failed (exit code = -15) (stdout:) (stderr: exe_getouterr: 200 seconds timeout expired, killing child process.- killed by signal 15.-) N/A (102 times)
 - ◆ Cannot move ISB: (1550 times)
 - ◆ Transfer to CREAM fails: (4432 times)
 - ◇ Authentication error: Unable to open the file [/var/glite/SandboxDir/zZ/https_3a_2f_2fdevel15.cnaf.infn.it_3a9000_2fzZq20TYizStcltyqfbl : No such file or directory (3358 times)
 - ◇ CREAM Register returned error "MethodName=[jobRegister] Timestamp=[Mon 01 Jun 2009 01:18:50] ErrorCode=[0] Description=[system error] FaultCause=[cannot create the job's working directory! The problem seems to be related to glxec [glxec reported = "glxec policy violation: see glxec log for more details"]]" (27 times)
 - ◇ Authentication error: The proxy is EXPIRED! (1041 times)
 - ◆ Proxy expired: (527 times)
 - ◆ Cannot take token: (78 times)
 - ◇ /opt/edg/libexec/edg-gridftp-base-rm: error globus_ftp_client: the server responded with an error 421 Service not available, closing control connection Cannot take token (30 times)
 - ◇ /opt/edg/libexec/edg-gridftp-base-rm: error globus_ftp_client: the server responded with an error 500 500-Command failed : System error in unlink: No such file or directory 500-A system call failed: No such file or directory 500 End. Cannot take token (3 times)
 - ◆ pbs_reason: (3 times)



10) Test starts on Tue May 26 at 15:56:53 CEST 2009 (WMS: devel20)

Description:

- 4320 collections each of 40 jobs
- One collection every 60 seconds
- Four users
- max_ice_threads = 20
- Used all the CEs of testbedB (except cert-07.cnaf)
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 5 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 2424"
- Resubmission is enabled
- Lease mechanism is not used
- Use "jobdir" input mechanism

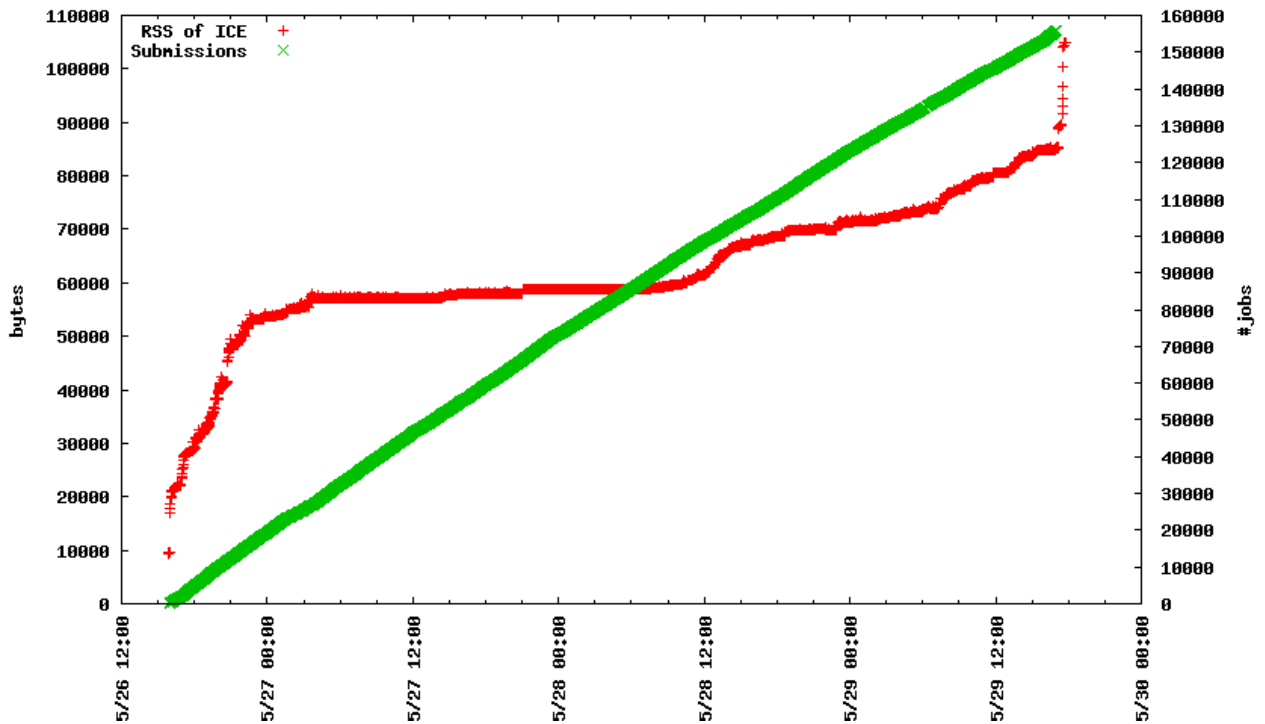
Submissions finish on Fri May 29 at 15:53:26 CEST 2009

- 3872 collections submitted in 33435 seconds: 4/8/54 (min/avg/max)
 - ◆ 448 submissions fails due to load limiter

Final results taken on Thu May 28 at 12:04:48 CEST 2009

- Collections correctly submitted: 3872 (154880 jobs)
 - ◆ DONE OK: 154873 (99.995%)
 - ◆ NOT TERMINATED: 7 (0.005%)
 - ◆ ABORTED: 0 (0%)
 - ◆ Resubmitted: 1165 (0.75%)
- Errors found (1165)
 - ◆ BLAH error: 185
 - ◆ Cannot move ISB: 86
 - ◆ Transfer to CREAM fails: 6
 - ◆ Proxy expired: 884
 - ◆ pbs_reason: 4

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Open Bugs:

- #50875 : CREAM: reason for cancelled jobs should be reported
- #50876 : CREAM reports that the proxy expired even when the problem is in detecting the lifetime of the proxy
- #51046 : CREAM: DelegProxyInfo info sometimes is wrong

9) Test starts on Wed May 22 at 18:01:14 CEST 2009 (WMS: devel20)

Description:

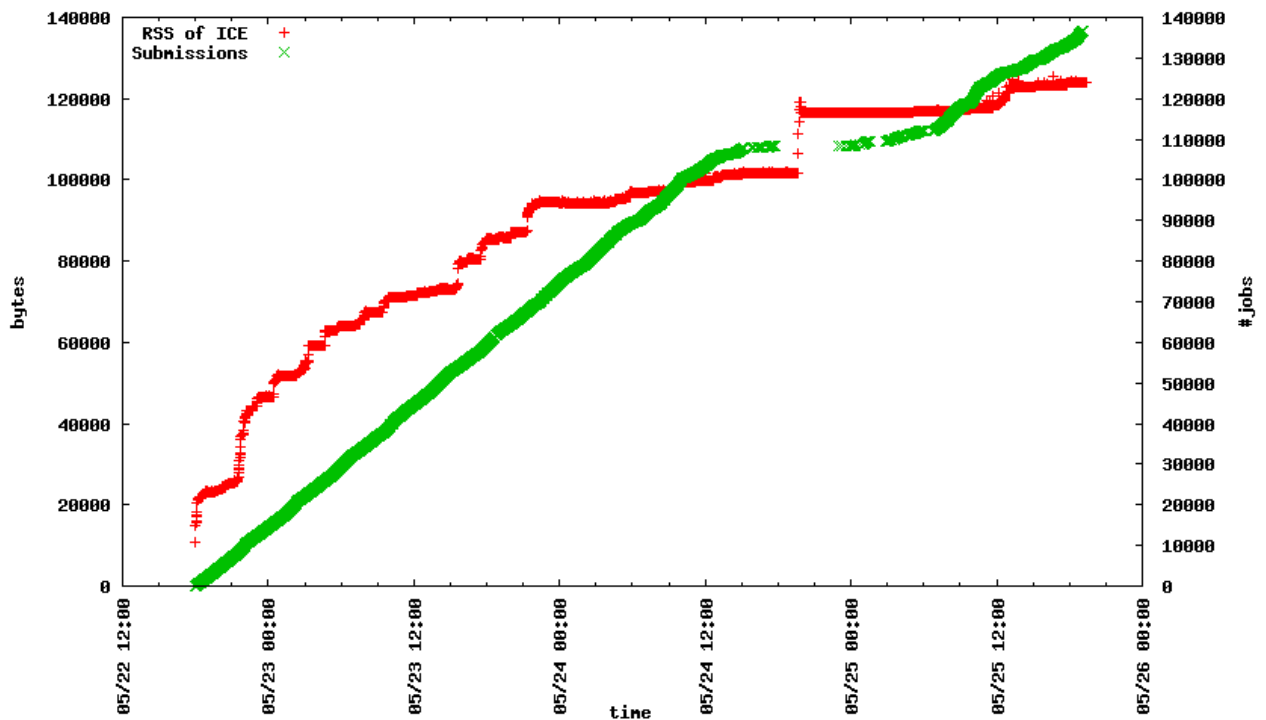
- 4320 collections each of 40 jobs
- One collection every 60 seconds
- Four users
- max_ice_threads = 20
- Used all the CEs of testbedB
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 5 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 2424"
- Resubmission is enabled
- Lease mechanism is not used
- Use "jobdir" input mechanism
- Changes in the software wrt previous test:
 - ◆ ICE
 - ◇ Limiting SELECT queries SQL to 100 records (for poller)
 - ◇ Setting on cache size of database to a low value in order to limit heap consumption
 - ◆ CE
 - ◇ Use version 1_11
- Use a WMS 3.2 (patch 2597)
- Redesign of the PBS section of the testbedB (1 pbs server per CE)

Submissions finish on Mon May 25 at 17:58:16 CEST 2009

- 2969 collections submitted in 18907 seconds: 3/6/66 (min/avg/max)
 - ◆ 1351 submissions fails due to load limiter

Final results taken on Tue May 26 at 10:58:16 CEST 2009

- Collections correctly submitted: 2969 (118760 jobs)
 - ◆ DONE OK: 115175 (96.98%)
 - ◆ NOT TERMINATED: 0 (0%)
 - ◆ ABORTED: 3584 (3.02%)
 - ◆ Resubmitted: 22693 (19.11%)
- Errors found (42042)
 - ◆ BLAH error: 26
 - ◆ Cannot move ISB: 1186
 - ◆ Transfer to CREAM failed due to exception: Authentication error: 20354
 - ◆ Proxy expired: 20327
 - ◆ Cannot take token: 103
 - ◆ Isf_reason: 4
 - ◆ pbs_reason: 42



NOTE:

- All the errors (and so the aborted) are due to a "proxy expired" problem, which happen for a misconfiguration in the proxy renewal service daemon.
- In the last day we use as MyProxyServer: myproxy.cnaf.infn.it

8) Test starts on Mon May 11 at 11:44:15 CEST 2009 (WMS: devel14)

Description:

- 4320 collections each of 20 jobs
- One collection every 60 seconds
- Four users
- max_ice_threads = 20
- Used all the lsf CEs of testbedB
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 5 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 2424"
- Resubmission is enabled
- Lease mechanism is not used
- Poller mechanism is not used (*start_poller = false;*)

Submissions finish on Thu May 14 at 11:41:46 CEST 2009

- 4320 collections submitted in 35444 seconds: 4/8/44 (min/avg/max)

Final results taken on Tue May 19 at 10:11:16 CEST 2009

- Collections correctly submitted: 4320 (86400 jobs)
 - ◆ DONE OK: 72242 (83.61%)
 - ◆ NOT TERMINATED: 13846 (16.03%)
 - ◆ ABORTED: 312 (0.36%)
 - ◆ Resubmitted: 1389 (1.6%)
- Errors found (3146)
 - ◆ BLAH error: (3134 times 99.63%)
 - ◇ submission command failed (exit code = 1) (stdout:) (stderr:Cannot connect to LSF. Please wait ...-Cannot connect to LSF. Please wait ...-Cannot connect to LSF. Please wait ...-Cannot connect to LSF. Please wait ...-Cannot connect to LSF. Please wait ...-Cannot connect to LSF. Please wait ...-Cannot connect to LSF. Please wait ...-Failed in an LSF library call: Failed in sending/receiving a message: Connection reset by peer. Job not submitted.-TERM environment variable not set.-) N/A (jobId = [...]) (283 times)
 - ◇ submission command failed (exit code = 1) (stdout:) (stderr:Cannot connect to LSF. Please wait ...-Cannot connect to LSF. Please wait ...-Cannot connect to LSF. Please wait ...-Cannot create job info file. Job not submitted.-TERM environment variable not set.-) N/A (jobId = [...]) (times 1858)
 - ◇ no jobId in submission script's output (stdout:) (stderr: exe_getouterr: 200 seconds timeout expired, killing child process.-) N/A (jobId = [...]) (8 times)
 - ◇ submission command failed (exit code = -15) (stdout:) (stderr:Cannot connect to LSF. Please wait ...-Cannot connect to LSF. Please wait ...-Cannot connect to LSF. Please wait ...-Cannot connect to LSF. Please wait ...-Cannot connect to LSF. Please wait ...-LSF is down. Please wait ...-LSF is down. Please wait ...-LSF is down. Please wait ...- exe_getouterr: 200 seconds timeout expired, killing child process.- killed by signal 15.-) N/A (jobId = [...]) (8 times)
 - ◇ send command timeout (977 times)
 - ◆ lsf reason (6 times 0.19%)
 - ◇ lsf_reason=-1 (5 times)
 - ◇ lsf_reason=36608 (1 time)
 - ◆ Cannot take token (1 time 0.03%)
 - ◆ Transfer to CREAM failed due to exception: CREAM Register raised std::exception Received NULL fault; the error is due to another cause: FaultString=[Client fault] -

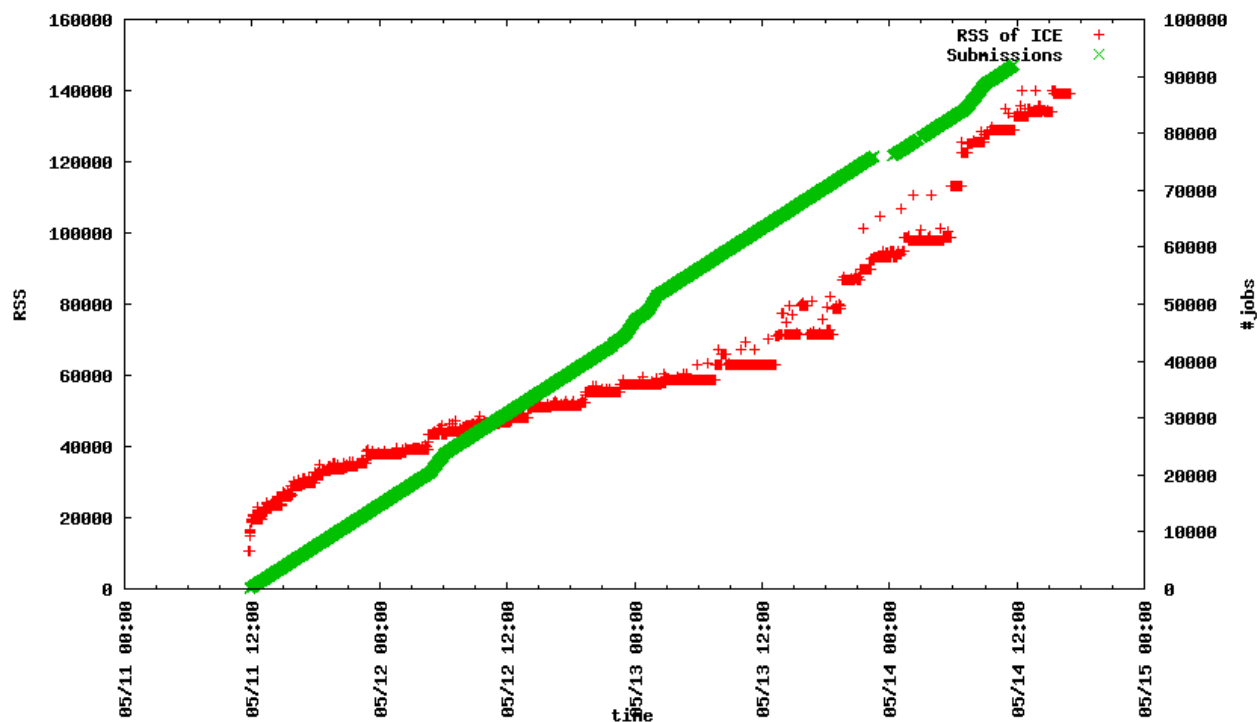
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FaultCode=[SOAP-ENV:Client] - FaultSubCode=[SOAP-ENV:Client] (3 times 0.09%)

- ◆ The job cannot be submitted because the blparser service is not alive (2 times 0.06%)

NOTE:

- For the jobs in "not terminated" status, the notification of the "Done Ok" event has been lost.
- Probably most of the "BLAH errors" are due to a malfunction in the LSF batch system at Cnaf



7) Test starts on Mon May 4 at 15:47:37 CEST 2009 (WMS: devel18)

Description:

- 4320 collections each of 20 jobs
 - One collection every 60 seconds
 - Four users
 - max_ice_threads = 20
 - Used all the lsf CEs of testbedB
 - Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
 - Proxy has 5 hours of lifetime (and it is renewed every 4 hours)
 - The job is a "sleep 2424"
 - Resubmission is enabled
 - Lease mechanism is not used
- Changes in the software wrt previous test:
- ◆ ICE
 - ◇ Improvement in the memory management of the SQL queries

Submissions finish on Thu May 7 at 15:45:40 CEST 2009

- 4317 collections submitted in 48130 seconds: 4/11/62 (min/avg/max)

Final results taken on Tue May 19 at 10:11:16 CEST 2009

- ◆ 3 submission(s) fail(s) due to load limiter

Results:

- Collections correctly submitted: 4317 (86340 jobs)
 - ◆ DONE OK: 64334 (74.51%)
 - ◆ NOT TERMINATED: 21997 (25.48%)
 - ◆ ABORTED: 9 (0.01%)
 - ◆ Resubmitted: 250 (0.29%)
- Errors found (336)
 - ◆ BLAH error: (*1 time 0.3%*)
 - ◇ submission command failed (exit code = 120) (stdout:) (stderr:glexec policy violation: see glexec log for more details-) N/A (jobId = CREAM539587168)
 - ◆ Isf reason (*138 times 41.07%*)
 - ◇ Isf_reason=1603 (*2 times*)
 - ◇ Isf_reason=-1 (*136 times*)
 - ◆ The job cannot be submitted because the blparser service is not alive (*3 times 0.9%*)
 - ◆ Transfer to CREAM failed due to exception: CREAM Register raised std::exception Connection to service [...] failed: (*194 times 57.73%*)

NOTE:

- Poller's call doesn't work due to a mistake in the code

6) Test starts on Thu Apr 23 13:23:35 CEST 2009 (WMS: devel14)

Description:

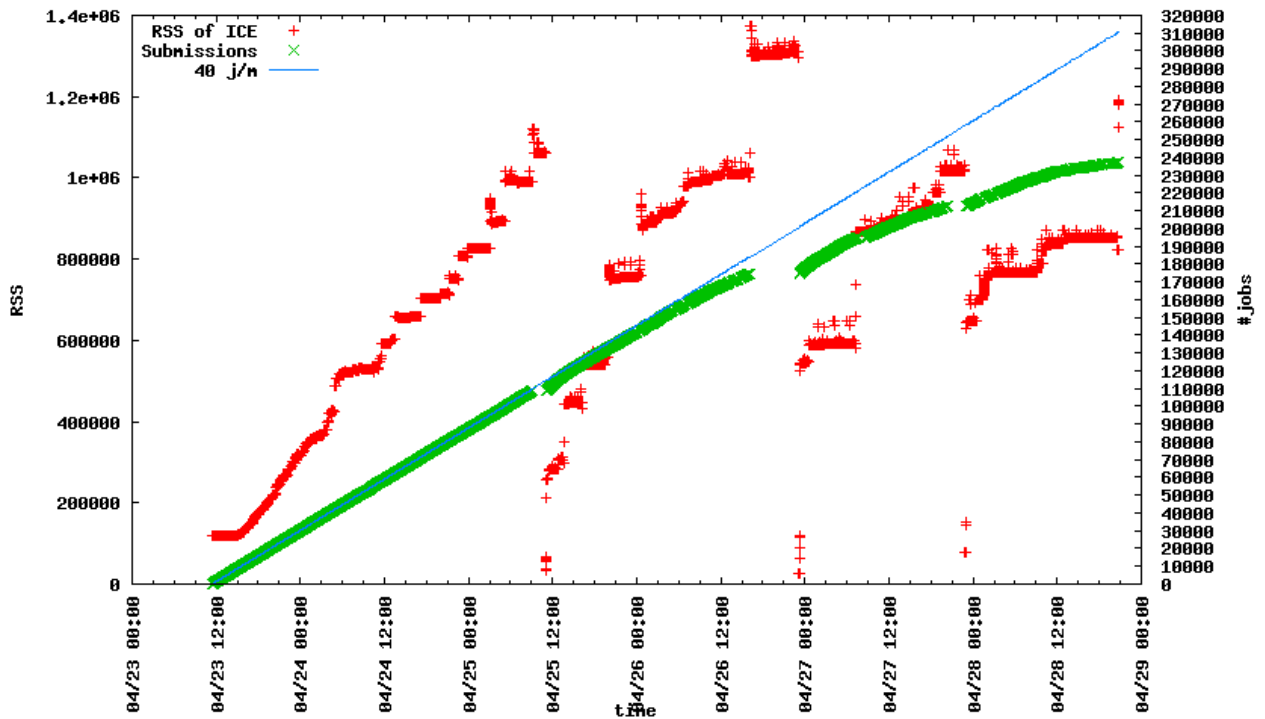
- 7200 collections each of 40 jobs
- One collection every 60 seconds
- Four users
- max_ice_threads = 20
- max_ice_mem = 1048000;
- Used all the CEs of testbedB (except cert-06.cnaf and cream-28.pd)
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 5 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 2424"
- Resubmission is enabled
- Lease mechanism is not used
- Changes in the software wrt previous test:
 - ◆ ICE
 - ◇ SQL queries fixed

Results taken on Wed Apr 30 12:42:00 CEST 2009

- Collections correctly submitted: 5787 (231480 jobs)
 - ◆ DONE OK: 86978 (37.58%)
 - ◆ CANCELLED: 83568 (36.10%)
 - ◆ NOT TERMINATED: 59604 (25.75%)
 - ◆ ABORTED: 1330 (0.57%)

- ◆ Resubmitted: 1908 (0.82%)
- Errors found (12814)
 - ◆ BLAH error: (3943 times)
 - ◇ submission command failed (exit code = 1) (3839 times)
 - ◇ submission command failed (exit code = 106) (67 times)
 - ◇ submission command failed (exit code = 120) (2 times)
 - ◇ submission command failed (exit code = -15) (9 times)
 - ◇ submission command failed (exit code = 107) (17 times)
 - ◇ no jobId in submission script's output (3 time)
 - ◇ send command timeout (6 times)
 - ◆ The job cannot be submitted because the blparser service is not alive (25 times)
 - ◆ lsf_reason=-1 (4 times)
 - ◆ Cannot move ISB (171 times)
 - ◆ Transfer to CREAM failed due to exception (8613 times)
 - ◇ Authentication error: The proxy is EXPIRED! (1700 times)
 - ◇ Authentication error: Unable to open the file [...] : No such file or directory (6736 times)
 - ◇ CREAM Register raised std::exception Cannot set credentials in the gsoap-plugin context (45 times)
 - ◇ CREAM Register raised std::exception Connection to service [https://cream-28.pd.infn.it:8443/ce-cream/services/CREAM2] failed: (11 times)
 - ◇ CREAM Register raised std::exception EOF detected during communication. Probably service closed connection or SOCKET TIMEOUT occurred. (11 times)
 - ◇ CREAM Register raised std::exception The endpoint is blacklisted (59 times)
 - ◇ CREAM Register returned error "MethodName=[jobRegister] Timestamp=[Mon 27 Apr 2009 13:18:26] ErrorCode=[0] Description=[system error] FaultCause=[cannot create the job's working directory! The problem seems to be related to glxec]" (46 times)
 - ◇ CREAM Start raised exception The endpoint is blacklisted (4 time)
 - ◇ CREAM Register raised std::exception Received NULL fault; the error is due to another cause: FaultString=[java.lang.NullPointerException] - FaultCode=[SOAP-ENV:Server.userException] - FaultSubCode=[SOAP-ENV:Server.userException] - FaultDetail=[cream-28.pd.infn.it] (1 time)
 - ◆ Proxy is expired (58 times)

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Problems

- ProxyRenewal service daemon:

```
Trying to renew proxy in f50d5ddd407f12c2cc55f102b7eb1f18.1411
Error contacting MyProxy server for proxy f50d5ddd407f12c2cc55f102b7eb1f18.1411: ERROR from
certificate chain verification failed
X509_verify_cert() failed: certificate has expired
authentication failed
```

- Maui:

```
04/27 09:59:45 WARNING: job buffer overflow (cannot add job '1545422')
04/27 09:59:45 ERROR: job buffer is full (ignoring job '1545422.cream-28.pd.infn.it')
```

5) Test starts on Tue Apr 15 at 11:40:01 CEST 2009 (WMS: devel14)

Description:

- 3400 collections each of 40 jobs
- One collection every 60 seconds
- Four users
- max_ice_threads = 20
- max_ice_mem = 2800000;
- Used all the CEs of testbedB (except cert-06.cnaf and cream-22.pd)
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 5 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 2424"
- Resubmission is enabled
- Lease mechanism is not used
- Changes in the software wrt previous test:
 - ◆ ICE:

- ◇ Improvements in the memory management in database's queries
- ◇ Fixed a bug in the management of notifications

Test interrupted on 2009-04-16 at 15:10:40

- ICE has exited with this message:

```
terminate called after throwing an instance of 'glite::wms::ice::db::DbOperationException'  
what(): Query [UPDATE jobs SET failure_reason='Transfer to CREAM failed due to exception'
```

Partial results:

- Collections correctly submitted: 1535 (61400 jobs)
 - ◆ DONE OK: 32000 (52.12%)
 - ◆ NOT TERMINATED: 29400 (47.88%)
 - ◆ Resubmitted: 7 (0.01%)
- Errors found (7):
 - ◆ BLAH error: submission command failed (exit code = 1) (stdout:) (stderr:pbs_iff: cannot read reply from pbs_server-No Permission.-qsub: cannot connect to server cream-28.pd.infn.it (errno=15007)-TERM environment variable not set.-) N/A (jobId = CREAM524685673) (7 times)
 - ◇ <https://devel15.cnaf.infn.it:9000/6fozSUIvPst6M79INYtWjw>

4) Test starts on Fri Apr 10 at 17:10:12 CEST 2009 (WMS: devel14)

Description:

- 4320 collections each of 40 jobs
- One collection every 60 seconds
- Five users
- max_ice_threads = 20
- Used all the CEs of testbedB (except cert-06.cnaf.infn.it)
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 5 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 4242"
- Resubmission is enabled
- Lease mechanism is not used

Submissions finish on Mon Apr 13 at 20:35:45 CEST 2009

- 3608 collections submitted in 118319 seconds: 5/32/213 (min/avg/max)
 - ◆ 712 submission(s) fail(s) due to load limiter

Test interrupted on 2009-04-13 at 07:55:40

- ICE stopped work on the WMS:

```
terminate called after throwing an instance of 'std::bad_alloc'  
what(): St9bad_alloc  
Aborted (core dumped)
```

- MAUI stopped work on the torque-CEs:

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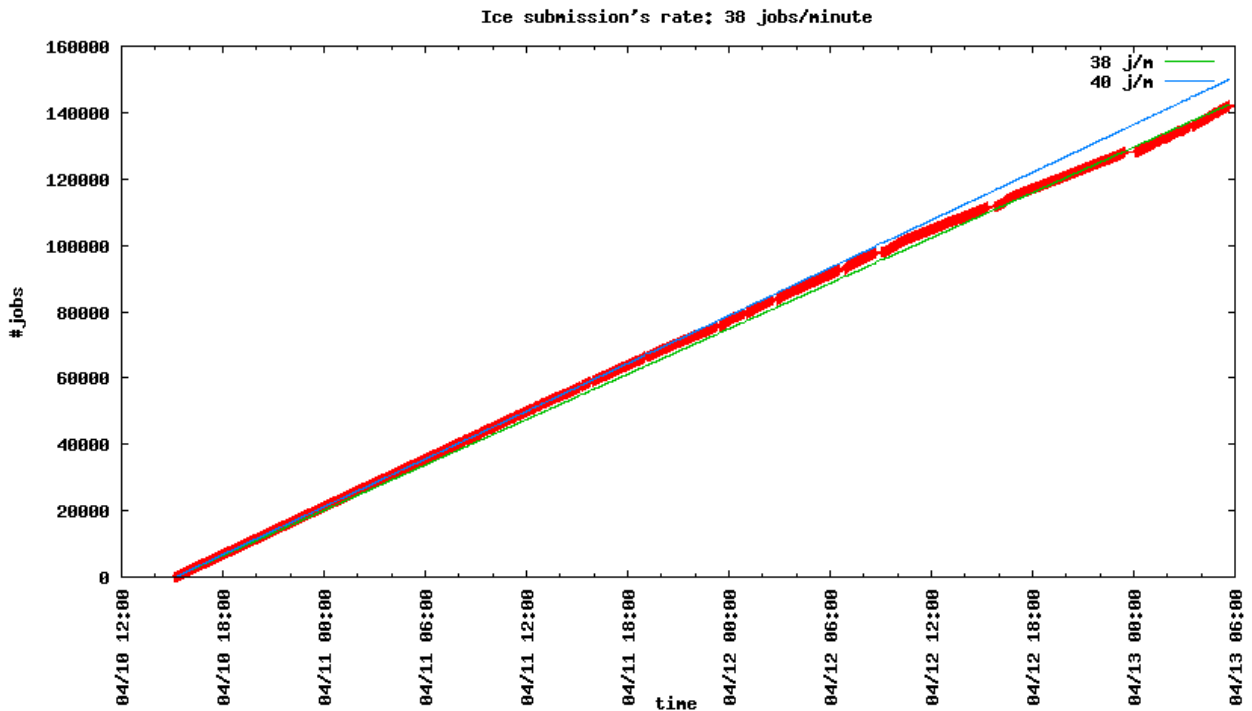
```
04/12 05:36:08 ERROR: job hash table is FULL. cannot add MJob[107] '1385803'
04/12 05:36:08 ERROR: job buffer is full (ignoring job '1385803.cream-28.pd.infn.it')
04/12 05:36:08 ERROR: job hash table is FULL. cannot add MJob[107] '1385804'
04/12 05:36:08 ERROR: job buffer is full (ignoring job '1385804.cream-28.pd.infn.it')
04/12 05:36:08 INFO: 35507 PBS jobs detected on RM base
04/12 05:36:08 INFO: jobs detected: 35507
```

and

```
04/12/2009 05:36:09;0080;PBS_Server;Req;dis_request_read;req header bad, dis error 7 (Prem
04/12/2009 05:36:09;0080;PBS_Server;Req;req_reject;Reject reply code=15056(Bad DIS based R
om @
04/12/2009 05:36:09;0002;PBS_Server;Req;dis_reply_write;DIS reply failure, -1
```

Results:

- Collections correctly submitted: 3608 (144320 jobs)
 - ◆ DONE OK: 31687 (21.96%)
 - ◆ NOT TERMINATED: 112633 (78.04%)
 - ◆ Resubmitted: 92 (0.06%)
- Errors found (92):
 - ◆ BLAH error: submission command failed (exit code = 1) (stdout:) (stderr:pbs_iff: cannot read reply from pbs_server-No Permission.-qsub: cannot connect to server cream-28.pd.infn.it (errno=15007)-TERM environment variable not set.-) N/A (jobId = [...]) (91 times)
 - ◇ <https://devel15.cnaf.infn.it:9000/XaxkR1YiqZbx3N0LifLufw>
 - ◇ <https://devel15.cnaf.infn.it:9000/5SZ3u6IOpnWmCqOc8KabGQ>
 - ◆ Transfer to CREAM failed due to exception: CREAM Register raised std::exception Connection to service [<https://cream-32.pd.infn.it:8443/ce-cream/services/CREAM2>] failed: (1 time)
 - ◇ <https://devel15.cnaf.infn.it:9000/FJw7176KUnMBhtWbcRgM4A>



3) Test starts on Fri Apr 10 at 12:11:20 CEST 2009 (WMS: devel14)

Description:

- 150 collections each of 15 jobs
- Three collections every 60 seconds
- Five users
- max_ice_threads = 20
- Used all the CEs of testbedB (except cert-06.cnaf.infn.it)
- Used automatic-delegation

- Proxy renewal service:
 - ◆ 50 collections use (MyProxyServer = "myproxy.cern.ch")
 - ◆ 50 collections use (MyProxyServer = "myproxy.to.infn.it")
 - ◆ 50 collections don't set MyProxyServer attribute

- The job is a "sleep 666"
- Resubmission is enabled
- Lease mechanism is not used

Submissions finish on Fri Apr 10 at 12:59:04 CEST 2009

- 150 collections correctly submitted

Final results

- Collections correctly submitted: 150 (2250 jobs)
 - ◆ DONE OK: 2250 (100%)

2) Test starts on Thu Apr 9 at 15:57:41 CEST 2009 (WMS: devel14)

Description:

- 250 collections each of 40 jobs
- One collection every 60 seconds
- Five users
- max_ice_threads = 20
- Used all the CEs of testbedB (except cert-06.cnaf.infn.it)
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 5 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 666"
- Resubmission is enabled
- Lease mechanism is not used

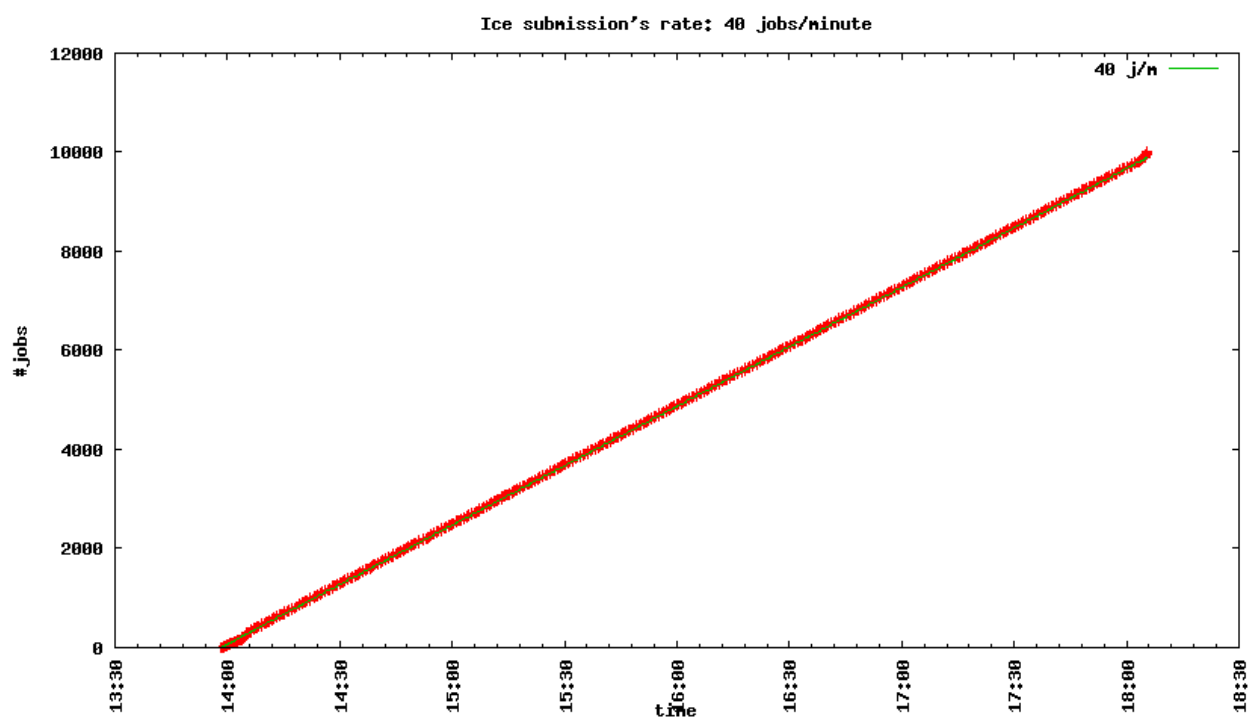
- Changes in the software wrt previous test:
 - ◆ fixed a bug in ICE about the decrement counter associated with the "super" proxy

Submissions finish on Thu Apr 9 20:04:05 CEST 2009

- 250 collections submitted in 2213 seconds: 4/8/30 (min/avg/max)

Final results

- Collections correctly submitted: 250 (10000 jobs)
 - ◆ DONE OK: 10000 (100%)
 - ◆ Resubmitted: 4 (0.04%)
- Errors found (4):
 - ◆ lsf_reason=65280 (3 times)
 - ◇ <https://devel15.cnaf.infn.it:9000/XjXC6lrYCSjP-VNQKPh1A>
 - ◇ https://devel15.cnaf.infn.it:9000/CKx_Lg4WVwbBzv13mvuIWw
 - ◇ <https://devel15.cnaf.infn.it:9000/FP810VmA3qFw1B1tE0gvXA>
 - ◆ lsf_reason=-1 (1 time)
 - ◇ <https://devel15.cnaf.infn.it:9000/a9GWtJChDzQyKujDzFjQw>



1) Test starts on Wed Apr 8 at 16:28:22 CEST 2009 (WMS: devel14)

Description:

- 250 collections each of 40 jobs
- One collection every 60 seconds
- Five users
- max_ice_threads = 20
- Used all the CEs of testbedB (except cert-06.cnaf.infn.it)
- Used automatic-delegation and proxy renewal service (MyProxyServer = "myproxy.cern.ch")
- Proxy has 5 hours of lifetime (and it is renewed every 4 hours)
- The job is a "sleep 616"

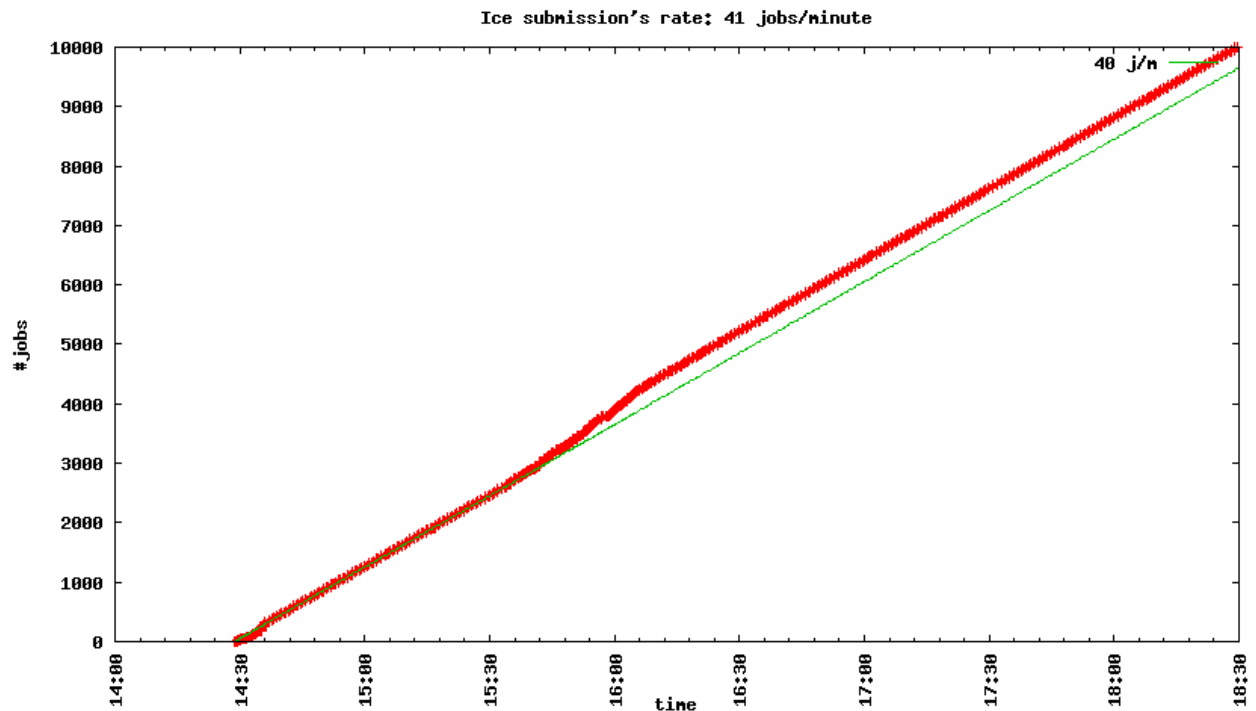
- Resubmission is enabled
- Lease mechanism is not used

Submissions finish on Wed Apr 8 at 20:34:44 CEST 2009

- 250 collections submitted in 2030 seconds: 5/8/29 (min/avg/max)

Final results

- Collections correctly submitted: 250 (10000 jobs)
 - ◆ DONE OK: 10000 (100%)
 - ◆ Resubmitted: 555 (5.55%)
- Errors found (561):
 - ◆ Cannot move ISB (*232 times 41.36%*)
 - ◆ Cannot move OSB (*79 times 14.08%*)
 - ◆ Proxy is expired (*216 times 38.5%*)
 - ◆ lsf_reason=1603 (*34 times 6.06%*)



-- AlessioGianelle - 05 Mar 2009

This topic: EgeeJra1It > WmsTestsP2862

Topic revision: r63 - 2011-02-24 - AlessioGianelle



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