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Testing report: IGIRTC-82

Summary

- Product: **BLAH 1.16.6-3**
- Release Task: Task #30327
- ETICS Subsystem Configuration Name: **emi-blahp_R_1_16_6_3, emi-cream-ce_R_1_13_9_3**
- VCS Tag: glite-ce-blahp_R_1_16_6_3
- EMI Major Release: **EMI 1 (Kebnekaise)**
- Platform: **SL5 epel**
- Author: Sergio Traldi
- Testing report: Testing Report file
- Certification report: Certification Report file
- Outcome: "Certified"

Deployment tests

Clean Installation

- Installation log file
- Configuration log file

Upgrade Installation

LSF CE

- Installation log file
- Configuration log file (using new BLParser model)
- Configuration log file (using old BLParser model)

Unit Tests

Not Available.

System tests

Functionality tests

BLParser test

Old BLParser

Tests.Check Notifications For Normally Finished Jobs

- Test results for Normally finished Jobs for LSF **PASSED**

```
[traldi@cert-25 blah_testing]$ pybot tests/check_notifications_for_normally_finished_jobs.html
.....
Command's output printed.
  dn = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Sergio Traldi/CN=proxy
The files of this testsuite will be stored under: /tmp/tmpLGXrZc.cream_testing/
=====
```

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```
Check Notifications For Normally Finished Jobs :: Test that notifications a...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_normally_finished_jobs | PASS |
-----
Check Notifications For Normally Finished Jobs :: Test that notifi... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
```

Tests.Check Notifications For Cancelled Jobs

- Test results for Cancelled Jobs for LSF **PASSED**

```
[traldi@cert-25 blah_testing]$ pybot tests/check_notifications_for_cancelled_jobs.html
....
```

Command's output printed.

```
dn = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Sergio Traldi/CN=proxy
The files of this testsuite will be stored under: /tmp/tmpPZ9vT7.cream_testing/
```

```
=====
Check Notifications For Cancelled Jobs :: Test that notifications are sent ...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_cancelled_jobs | PASS |
-----
Check Notifications For Cancelled Jobs :: Test that notifications ... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
```

Tests.Check Notifications For Suspended Resumed Jobs

- Test results for Suspended and Resumed Jobs for LSF **NOT PASSED**

```
[traldi@cert-25 blah_testing]$ pybot tests/check_notifications_for_suspended_resumed_jobs.html
...
```

Command's output printed.

```
dn = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Sergio Traldi/CN=proxy
The files of this testsuite will be stored under: /tmp/tmpdQobY.cream_testing/
```

```
=====
Check Notifications For Suspended Resumed Jobs :: Test that notifications a...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_suspended_resumed_jobs | FAIL |
_error: Expected status should be in ['HELD'] for job https://cream-29.pd.infn.it:8443/CREAM16849
-----
Check Notifications For Suspended Resumed Jobs :: Test that notifi... | FAIL |
2 critical tests, 1 passed, 1 failed
2 tests total, 1 passed, 1 failed
=====
```

- Job which is suspended and then resumed
 - ◆ LSF **NOT PASSED** see Bug #90085

New BLParse

Tests.Check Notifications For Normally Finished Jobs

- Test results for Normally finished Jobs for LSF **PASSED**

Old BLParse

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```
[traldi@cert-25 blah_testing]$ pybot tests/check_notifications_for_normally_finished_jobs.html
.....
Command's output printed.
  dn = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Sergio Traldi/CN=proxy
The files of this testsuite will be stored under: /tmp/tmpLwQyCp.cream_testing/
=====
Check Notifications For Normally Finished Jobs :: Test that notifications a...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_normally_finished_jobs                               | PASS |
-----
Check Notifications For Normally Finished Jobs :: Test that notifi... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
```

Tests.Check Notifications For Cancelled Jobs

- Test results for Cancelled Jobs for LSF PASSED

```
[traldi@cert-25 blah_testing]$ pybot tests/check_notifications_for_cancelled_jobs.html
.....
Command's output printed.
  dn = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Sergio Traldi/CN=proxy
The files of this testsuite will be stored under: /tmp/tmpddI5WS.cream_testing/
=====
Check Notifications For Cancelled Jobs :: Test that notifications are sent ...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_cancelled_jobs                                     | PASS |
-----
Check Notifications For Cancelled Jobs :: Test that notifications ... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
```

Tests.Check Notifications For Suspended Resumed Jobs

- Test results for Suspended and Resumed Jobs for LSF PASSED

```
[traldi@cert-25 blah_testing]$ pybot tests/check_notifications_for_suspended_resumed_jobs.html
...
Command's output printed.
  dn = /C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Sergio Traldi/CN=proxy
The files of this testsuite will be stored under: /tmp/tmpq63eyr.cream_testing/
=====
Check Notifications For Suspended Resumed Jobs :: Test that notifications a...
=====
Set Log Level :: Set the log level used for the test suite. This c... | PASS |
-----
check_notifications_for_suspended_resumed_jobs                           | PASS |
-----
Check Notifications For Suspended Resumed Jobs :: Test that notifi... | PASS |
2 critical tests, 2 passed, 0 failed
2 tests total, 2 passed, 0 failed
=====
```

Regression tests

Verification attached bugs

Bug #94712: Due to a timestamp problem bupdater for LSF can leave job in IDLE state FIXED NOT CERTIFIED

Bug #94414: BLParserLSF could crash if a suspend on an idle job is done FIXED

- On CE side: Check the BUPdaterLSF the services:

```
[root@cream-29 ~]# date
Fri Jun 29 15:39:23 CEST 2012
```

```
[root@cream-29 ~]# /etc/init.d/glite-ce-blahparser status
BNotifier (pid 12162) is running...
BUpdaterLSF (pid 12167) is running...
```

```
[root@cream-29 ~]# date
Fri Jun 29 15:40:06 CEST 2012
```

```
[root@cream-29 ~]# /etc/init.d/glite-ce-blahparser status
BNotifier (pid 12162) is running...
BUpdaterLSF (pid 12167) is running...
```

- On UI side send 10 jobs and suspend one in held:

```
[traldi@cert-25 ~]$ for ((i=0;i<23;i++)) do glite-ce-job-submit -d -r cream-29.pd.infn.it:8443/cream-29.pd.infn.it:8443/CREAM867401632
```

```
[traldi@cert-25 ~]$ glite-ce-job-status https://cream-29.pd.infn.it:8443/CREAM867401632
```

```
***** JobID=[https://cream-29.pd.infn.it:8443/CREAM867401632]
Status      = [IDLE]
```

```
[traldi@cert-25 ~]$ glite-ce-job-suspend https://cream-29.pd.infn.it:8443/CREAM867401632
```

```
Are you sure you want to suspend specified job(s) [y/n]: y
```

```
[traldi@cert-25 ~]$ glite-ce-job-status https://cream-29.pd.infn.it:8443/CREAM867401632
```

```
***** JobID=[https://cream-29.pd.infn.it:8443/CREAM867401632]
Status      = [IDLE]
```

```
[traldi@cert-25 ~]$ glite-ce-job-status https://cream-29.pd.infn.it:8443/CREAM867401632
```

```
***** JobID=[https://cream-29.pd.infn.it:8443/CREAM867401632]
Status      = [HELD]
```

```
[traldi@cert-25 ~]$ date
Fri Jun 29 15:39:30 CEST 2012
```

```
[traldi@cert-25 ~]$ glite-ce-job-status https://cream-29.pd.infn.it:8443/CREAM867401632
```

```
***** JobID=[https://cream-29.pd.infn.it:8443/CREAM867401632]
Status      = [HELD]
```

```
[traldi@cert-25 ~]$ glite-ce-job-resume https://cream-29.pd.infn.it:8443/CREAM867401632
```

```
Are you sure you want to resume specified job(s) [y/n]: y
```

```
[traldi@cert-25 ~]$ date
Fri Jun 29 15:39:51 CEST 2012
```

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```
[traldi@cert-25 ~]$ glite-ce-job-status https://cream-29.pd.infn.it:8443/CREAM867401632
```

```
***** JobID=[https://cream-29.pd.infn.it:8443/CREAM867401632]
        Status      = [DONE-OK]
        ExitCode     = [0]
```

Bug #94519: Updater for LSF can misidentify killed jobs as finished FIXED not certified

Bug #95392: Heavy usage of 'bjobsinfo' still hurts LSF FIXED not certified

Verification old bugs

Bug #91037: BUpdaterLSF should use bjobs to detect final job state FIXED

- Change debug_level and restart the services:

```
[root@cream-29 ~]# sed -i 's/bupdater_debug_level=2/bupdater_debug_level=3/' /etc/blah.config
[root@cream-29 ~]# mv /var/log/cream/glite-ce-bupdater.log /var/log/cream/glite-ce-bupdater.log.o
[root@cream-29 ~]# service gLite restart
STOPPING SERVICES
*** glite-ce-blahparser:
Shutting down BNotifier: [ OK ]
Shutting down BUpdaterLSF: [ OK ]

*** glite-lb-locallogger:
Stopping glite-lb-logd ... done
Stopping glite-lb-interlogd ... done

*** tomcat5:
Stopping tomcat5: [ OK ]

STARTING SERVICES
*** tomcat5:
Starting tomcat5: [ OK ]

*** glite-lb-locallogger:
Starting glite-lb-logd ...This is LocalLogger, part of Workload Management System in EU DataGrid
done
Starting glite-lb-interlogd ...
Message from syslogd@ at Mon Jul 2 09:51:23 2012 ...
cream-29 syslog[29043]: FATAL CONTROL - Failed to get GSI credentials. Exiting.
done

*** glite-ce-blahparser:
Starting BNotifier: /usr/bin/BNotifier: Error creating and binding socket: Address already in use
[FAILED]
Starting BUpdaterLSF: [ OK ]
```

- Submit a job and wait for its completion:

```
[traldi@cert-25 ~]$ glite-ce-job-submit -r cream-29.pd.infn.it:8443/cream-lsf-cert -a sleep.jdl
https://cream-29.pd.infn.it:8443/CREAM299057094
[traldi@cert-25 ~]$ glite-ce-job-status https://cream-29.pd.infn.it:8443/CREAM299057094

***** JobID=[https://cream-29.pd.infn.it:8443/CREAM299057094]
        Status      = [REALLY-RUNNING]

[traldi@cert-25 ~]$ glite-ce-job-status https://cream-29.pd.infn.it:8443/CREAM299057094

***** JobID=[https://cream-29.pd.infn.it:8443/CREAM299057094]
        Status      = [DONE-OK]
        ExitCode     = [0]
```

Bug #94414: BLParserLSF could crash if a suspend on an idle job is done FIXED

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```
[root@cream-29 ~]# grep 299057094 /var/log/cream/glite-ce-bnotifier.log
2012-07-02 09:51:49 Sent for Cream:[BatchJobId="668220"; JobStatus=1; ChangeTime="2012-07-02 09:5
2012-07-02 09:51:54 Sent for Cream:[BatchJobId="668220"; JobStatus=2; ChangeTime="2012-07-02 09:5
2012-07-02 09:52:09 Sent for Cream:[BatchJobId="668220"; JobStatus=4; ChangeTime="2012-07-02 09:5
```

- Verify if bhist has been called:

```
[root@cream-29 ~]# grep bhist /var/log/cream/glite-ce-bupdater.log
2012-07-02 09:50:49 /usr/bin/BUpdaterLSF: key bupdater_use_bhist_time_constraint not found - usin
2012-07-02 09:50:49 /usr/bin/BUpdaterLSF: key bupdater_use_bhist_for_killed not found - using the
2012-07-02 09:51:26 /usr/bin/BUpdaterLSF: key bupdater_use_bhist_time_constraint not found - usin
2012-07-02 09:51:26 /usr/bin/BUpdaterLSF: key bupdater_use_bhist_for_killed not found - using the
```

Bug #92281: Purge of registry can cause registry corruption FIXED not certified

It is not possible to replicate the problem systematically.

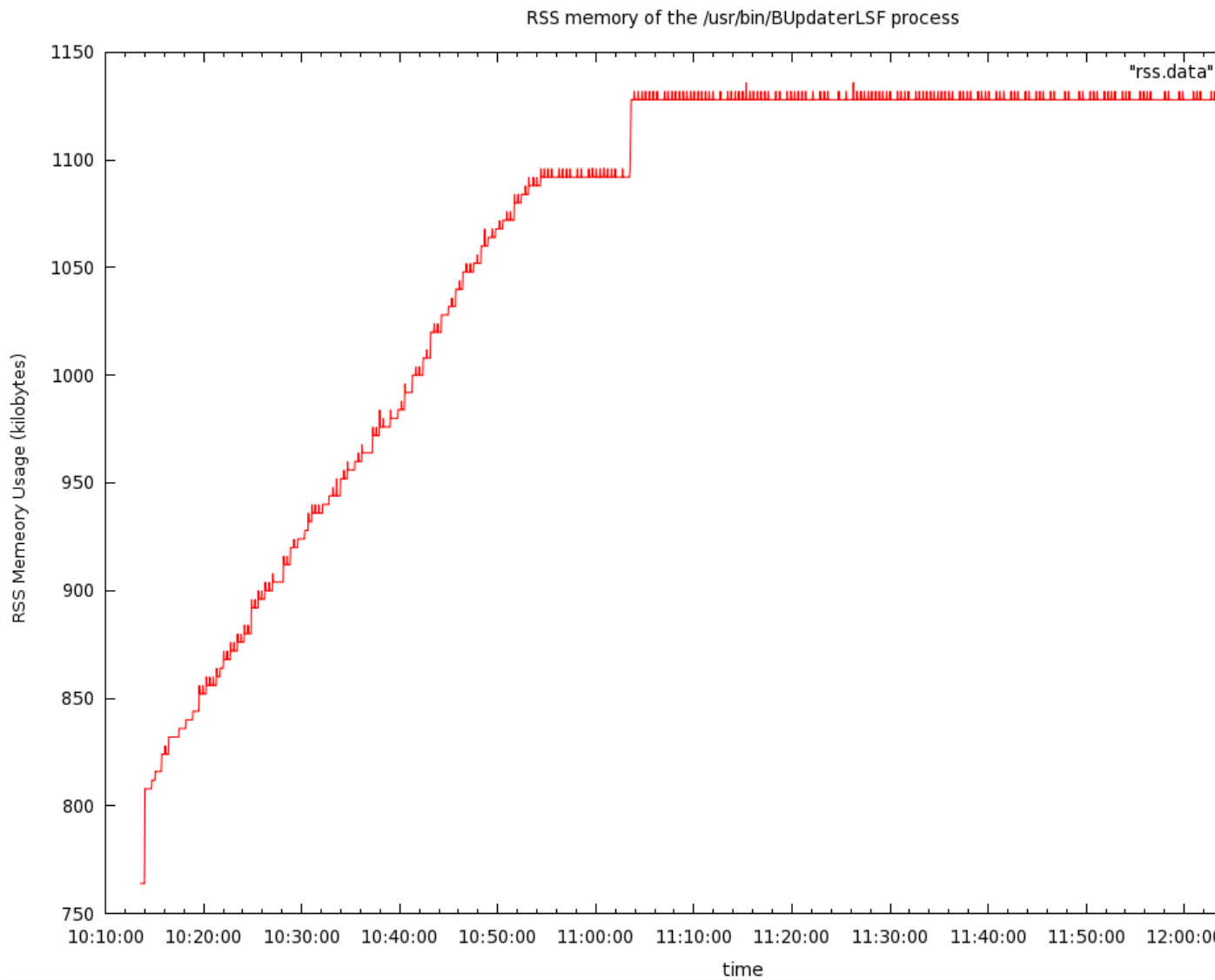
Bug #92774: BLParserLSF could crash searching in old logs FIXED not certified

Using the old LSF BLParser it usually crashed, so the fact that the functional tests passed should be a good signal that the bug has been fixed.

Bug #89859: There is a memory leak in the updater for LSF, PBS and Condor FIXED

Submit 1000 jobs, one every 3 seconds monitoring the Used RSS memory of the **/usr/bin/BUpdaterLSF** process:

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Test PASSED

-- SergioTraldi - 2012-06-28

This topic: IGIRelease > Task30327

Topic revision: r7 - 2012-07-03 - SergioTraldi



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