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# Testing report: IGIRTC-18

## Summary

- Product: **BLAH 1.16.4**
- Release Task: Task #25000
- ETICS Subsystem Configuration Name: **emi-cream-ce\_R\_1\_13\_7\_1**
- VCS Tag: *emi-blahp\_R\_1\_16\_4\_1*
- EMI Major Release: **EMI 1 (Kebnekaise)**
- Platform: **SL5 epel**
- Author: Sara Bertocco, Alessio Gianelle and Roberto Rosende Dopazo
- Testing report: See here
- Certification report: See here
- 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)

#### PBS CE

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

#### SGE CE

- Installation log file
- Configuration log file

## Unit Tests

Not Available. The plan is to provide some unit tests starting with EMI-2.

## System tests

### Functionality tests

**Test submission**

- Test result for LSF is available here **PASSED**
- Test result for PBS is available here **PASSED**
- Test result for SGE is available here **PASSED**

**BLParser test****Old BLParser**

- Job which finishes normally
  - ◆ **LSF PASSED**

```
[ale@cream-12 UI]$ glite-ce-job-submit -a -r cream-22.pd.infn.it:8443/cream-lsf-cert
https://cream-22.pd.infn.it:8443/CREAM053260410
```

```
[ale@cream-12 UI]$ glite-ce-job-status https://cream-22.pd.infn.it:8443/CREAM053260410
```

```
***** JobID=[https://cream-22.pd.infn.it:8443/CREAM053260410]
Status      = [DONE-OK]
ExitCode    = [0]
```

```
[root@cream-22 ~]# grep 053260410 /var/log/cream/glite-lsfparser.log
2011-12-20 13:47:29 Adding: ID:551886 Type:BLAHPNAME Value:"cre22_053260410"
2011-12-20 13:47:29 Sent for Cream:[BatchJobId="551886"; JobStatus=1; BlahJobName="c
2011-12-20 13:47:33 Sent for Cream:[BatchJobId="551886"; JobStatus=2; BlahJobName="c
2011-12-20 13:49:14 Sent for Cream:[BatchJobId="551886"; JobStatus=4; BlahJobName="c
```

- ◆ **PBS/Torque PASSED**

```
[bertocco@cream-12 mie_certificazioni]$ glite-ce-job-submit -a -r cream-41.pd.infn.i
```

```
[bertocco@cream-12 mie_certificazioni]$ glite-ce-job-status https://cream-41.pd.infn
```

```
***** JobID=[https://cream-41.pd.infn.it:8443/CREAM228600831]
Status      = [DONE-OK]
ExitCode    = [0]
```

```
[root@cream-41 ~]# grep 228600831 /var/log/cream/glite-pbsparsener.log
2011-12-20 15:45:34 Adding: ID:41080 Type:BLAHPNAME Value:cre41_228600831
2011-12-20 15:45:34 Sent for Cream:[BatchJobId="41080"; JobStatus=1; BlahJobName="cr
2011-12-20 15:45:35 Sent for Cream:[BatchJobId="41080"; JobStatus=2; BlahJobName="cr
2011-12-20 15:47:16 Sent for Cream:[BatchJobId="41080"; JobStatus=4; BlahJobName="cr
```

- Job which is cancelled
  - ◆ **LSF PASSED**

```
[ale@cream-12 UI]$ glite-ce-job-submit -a -r cream-22.pd.infn.it:8443/cream-lsf-cert
https://cream-22.pd.infn.it:8443/CREAM142681575
```

```
[ale@cream-12 UI]$ glite-ce-job-cancel https://cream-22.pd.infn.it:8443/CREAM1426815
```

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

```
[ale@cream-12 UI]$ glite-ce-job-status https://cream-22.pd.infn.it:8443/CREAM1426815
```

```
***** JobID=[https://cream-22.pd.infn.it:8443/CREAM142681575]
Status      = [CANCELLED]
ExitCode    = []
Description  = [Cancelled by user]
```

```
[root@cream-22 ~]# grep 142681575 /var/log/cream/glite-lsfparser.log
2011-12-20 13:51:28 Adding: ID:551887 Type:BLAHPNAME Value:"cre22_142681575"
2011-12-20 13:51:28 Sent for Cream:[BatchJobId="551887"; JobStatus=1; BlahJobName="c
```

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```
2011-12-20 13:51:29 Sent for Cream:[BatchJobId="551887"; JobStatus=2; BlahJobName="c
2011-12-20 13:51:55 Sent for Cream:[BatchJobId="551887"; JobStatus=3; BlahJobName="c
```

### ◆ PBS/Torque PASSED

```
[bertocco@cream-12 mie_certificazioni]$ glite-ce-job-submit -a -r cream-41.pd.infn.i
https://cream-41.pd.infn.it:8443/CREAM097109154
```

```
[bertocco@cream-12 mie_certificazioni]$ glite-ce-job-status https://cream-41.pd.infn
```

```
***** JobID=[https://cream-41.pd.infn.it:8443/CREAM097109154]
Status      = [CANCELLED]
ExitCode    = []
Description = [Cancelled by user]
```

```
[root@cream-41 ~]# grep 097109154 /var/log/cream/glite-pbsparser.log
2011-12-20 16:04:01 Adding: ID:41082 Type:BLAHPNAME Value:cre41_097109154
2011-12-20 16:04:01 Sent for Cream:[BatchJobId="41082"; JobStatus=1; BlahJobName="cr
2011-12-20 16:04:01 Sent for Cream:[BatchJobId="41082"; JobStatus=2; BlahJobName="cr
2011-12-20 16:04:29 Sent for Cream:[BatchJobId="41082"; JobStatus=3; BlahJobName="cr
2011-12-20 16:04:29 Sent for Cream:[BatchJobId="41082"; JobStatus=4; BlahJobName="cr
```

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

## New BLParser

- Job which finishes normally
  - ◆ LSF PASSED

```
[ale@cream-12 UI]$ glite-ce-job-submit -a -r cream-20.pd.infn.it:8443/cream-lsf-cert
https://cream-20.pd.infn.it:8443/CREAM587966276
```

```
[ale@cream-12 UI]$ glite-ce-job-status https://cream-20.pd.infn.it:8443/CREAM5879662
```

```
***** JobID=[https://cream-20.pd.infn.it:8443/CREAM587966276]
Status      = [DONE-OK]
ExitCode    = [0]
```

```
[root@cream-20 ~]# grep 587966276 /var/log/cream/glite-ce-bnotifier.log
2011-12-20 15:17:00 Sent for Cream:[BatchJobId="551901"; JobStatus=2; ChangeTime="20
2011-12-20 15:18:41 Sent for Cream:[BatchJobId="551901"; JobStatus=4; ChangeTime="20
```

### ◆ PBS/Torque PASSED

```
[bertocco@cream-12 mie_certificazioni]$ glite-ce-job-submit -a -r cream-40.pd.infn.i
https://cream-40.pd.infn.it:8443/CREAM509451203
```

```
[bertocco@cream-12 mie_certificazioni]$ glite-ce-job-status https://cream-40.pd.infn
```

```
***** JobID=[https://cream-40.pd.infn.it:8443/CREAM509451203]
Status      = [DONE-OK]
ExitCode    = [0]
```

```
[root@cream-40 ~]# grep 509451203 /var/log/cream/glite-ce-bnotifier.log
2011-12-20 16:42:32 Sent for Cream:[BatchJobId="41349.cream-40.pd.infn.it"; JobStatu
2011-12-20 16:44:13 Sent for Cream:[BatchJobId="41349.cream-40.pd.infn.it"; JobStatu
```

- Job which is cancelled
  - ◆ LSF PASSED

```
[ale@cream-12 UI]$ glite-ce-job-submit -a -r cream-20.pd.infn.it:8443/cream-lsf-cert
https://cream-20.pd.infn.it:8443/CREAM260205441
```

```
[ale@cream-12 UI]$ glite-ce-job-cancel https://cream-20.pd.infn.it:8443/CREAM2602054
```

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

```
[ale@cream-12 UI]$ glite-ce-job-status https://cream-20.pd.infn.it:8443/CREAM2602054
```

```
***** JobID=[https://cream-20.pd.infn.it:8443/CREAM260205441]
  Status      = [CANCELLED]
  ExitCode    = []
  Description  = [Cancelled by user]
```

```
[root@cream-20 ~]# grep 260205441 /var/log/cream/glite-ce-bnotifier.log
2011-12-20 15:20:26 Sent for Cream:[BatchJobId="551902"; JobStatus=3; ChangeTime="20
```

### ◆ PBS/Torque PASSED

```
[bertocco@cream-12 mie_certificazioni]$ glite-ce-job-submit -a -r cream-40.pd.infn.i
https://cream-40.pd.infn.it:8443/CREAM887070151
```

```
[bertocco@cream-12 mie_certificazioni]$ glite-ce-job-cancel https://cream-40.pd.infn
```

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

```
[bertocco@cream-12 mie_certificazioni]$ glite-ce-job-status https://cream-40.pd.infn
```

```
***** JobID=[https://cream-40.pd.infn.it:8443/CREAM887070151]
  Status      = [CANCELLED]
  ExitCode    = []
  Description  = [Cancelled by user]
```

```
[root@cream-40 ~]# grep 887070151 /var/log/cream/glite-ce-bnotifier.log
2011-12-20 16:58:33 Sent for Cream:[BatchJobId="41350.cream-40.pd.infn.it"; JobStatu
```

### • Job which is suspended and then resumed

#### ◆ LSF PASSED

```
[ale@cream-12 UI]$ glite-ce-job-submit -a -r cream-20.pd.infn.it:8443/cream-lsf-cert
https://cream-20.pd.infn.it:8443/CREAM908720454
```

```
[ale@cream-12 UI]$ glite-ce-job-suspend https://cream-20.pd.infn.it:8443/CREAM908720
```

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

```
[ale@cream-12 UI]$ glite-ce-job-status https://cream-20.pd.infn.it:8443/CREAM9087204
```

```
***** JobID=[https://cream-20.pd.infn.it:8443/CREAM908720454]
  Status      = [HELD]
```

```
[ale@cream-12 UI]$ glite-ce-job-resume https://cream-20.pd.infn.it:8443/CREAM9087204
```

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

```
[ale@cream-12 UI]$ glite-ce-job-status https://cream-20.pd.infn.it:8443/CREAM9087204
```

```
***** JobID=[https://cream-20.pd.infn.it:8443/CREAM908720454]
  Status      = [DONE-OK]
  ExitCode    = [0]
```

```
[root@cream-20 ~]# grep 908720454 /var/log/cream/glite-ce-bnotifier.log
2011-12-20 15:23:27 Sent for Cream:[BatchJobId="551904"; JobStatus=5; ChangeTime="20
2011-12-20 15:31:12 Sent for Cream:[BatchJobId="551904"; JobStatus=4; ChangeTime="20
```

#### ◆ PBS PASSED

```
[bertocco@cream-12 mie_certificazioni]$ glite-ce-job-submit -a -r cream-40.pd.infn.i
[bertocco@cream-12 mie_certificazioni]$ glite-ce-job-status https://cream-40.pd.infn
```

```
***** JobID=[https://cream-40.pd.infn.it:8443/CREAM089011081]
  Status      = [IDLE]
```

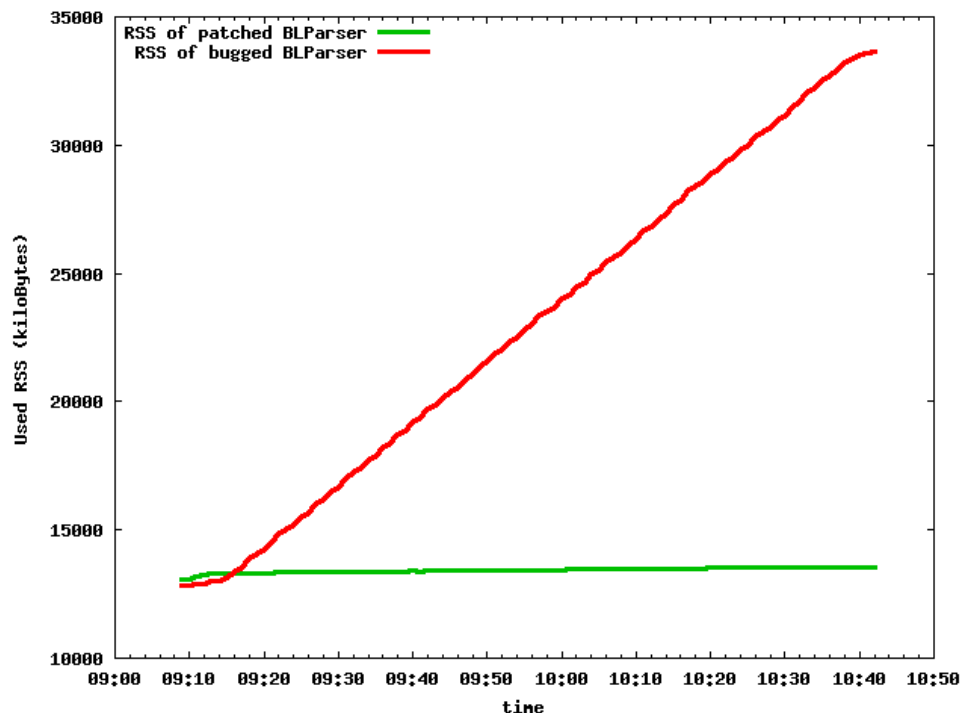


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```
--> === TEST PASSED ===
-->
-->
--> [ 11:59:16 ] run: ./CREAM-cli-job-status-simple.sh
-->
--> === TEST PASSED ===
-->
-->
--> [ 11:59:40 ] run: ./CREAM-cli-job-status-filtered.sh
-->
--> === TEST PASSED ===
-->
-->
--> [ 12:00:50 ] run: ./CREAM-cli-job-cancel.sh
-->
--> === TEST PASSED ===
-->
-->
--> [ 12:11:12 ] run: ./CREAM-cli-job-suspend.sh
-->
--> === TEST PASSED ===
-->
-->
--> [ 12:12:19 ] run: ./CREAM-cli-job-list.sh
-->
--> === TEST PASSED ===
-->
-->
--> [ 12:12:41 ] run: ./CREAM-cli-submission-management.sh
-->
--> === TEST PASSED ===
-->
--> <<< All tests PASSED >>>
--> cleaning up /tmp/cream-cli-test-rrosende-19724 ...
```

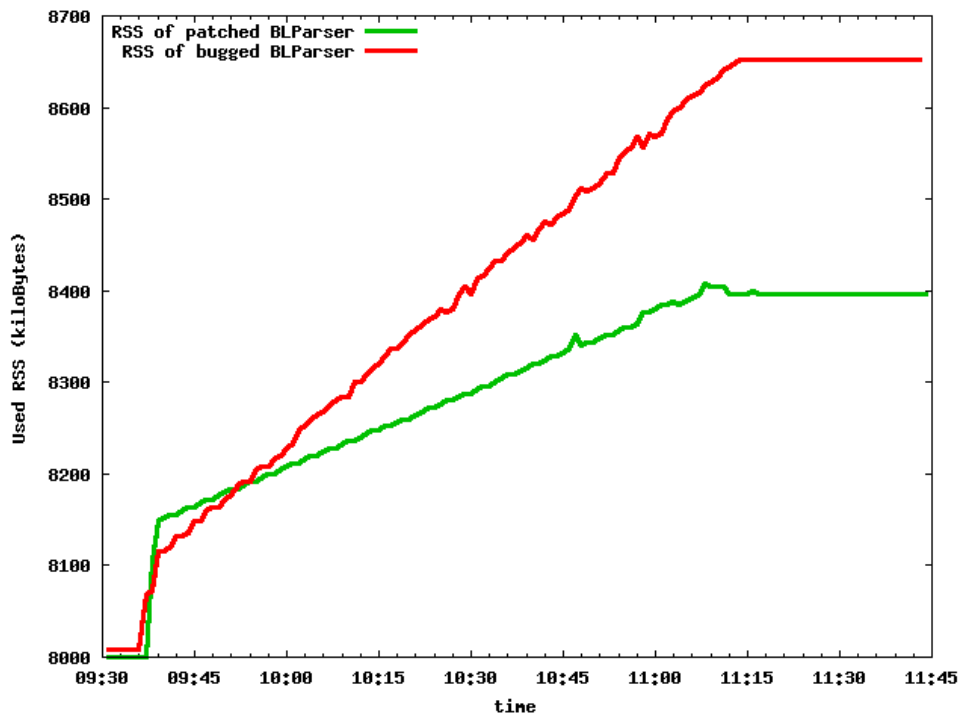
**Bug #89859: There is a memory leak in the updater for LSF, PBS and Condor FIXED**

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



**Bug #88974: BUdaterSGE and BNotifier don't start if sge\_helperpath var is not fixed FIXED**

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



## Verification old bugs

- Bug #75854 Problems related to the growth of the blah registry)

Submitted 5000 jobs to a CREAM CE configured using the new blparser, and with `job_registry_use_mmap=yes`.

Monitored the used RSS of the blahpd processes. At the end the maximum value between all the process is **14040**.

Test PASSED

- Bug #77776 (BUdater should have an option to use cached batch system commands)

Configure `/etc/blah.config`:

```
[root@cream-40 ~]# tail -4 /etc/blah.config
# Verify fix for bug #77776
pbs_batch_caching_enabled=yes
batch_command_caching_filter=/usr/bin/runcmd.pl
```

Where `runcmd.pl` is:

```
#!/usr/bin/perl
#-----#
# PROGRAM: argv.pl #
#-----#

$numArgs = $#ARGV + 1;
open (MYFILE, '>>/tmp/xyz');
foreach $argnum (0 .. $#ARGV) {
    print MYFILE "$ARGV[$argnum] ";
}
}
```

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



## Task25000 < IGIRelease < TWiki

```
print MYFILE "\n";
close (MYFILE);
```

Restart the services and submit 10 jobs to the CE.

```
[root@cream-40 ~]# cat /tmp/xyz
/usr/bin/qstat -f
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43450.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43451.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43452.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43453.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43454.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43455.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43456.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43457.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43458.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43459.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43460.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43461.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43462.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43463.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43464.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43465.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43466.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43467.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43468.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43469.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43470.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43471.cream-40.pd.infn.it
/usr/bin/tracejob -p /var/torque -m -l -a -n 2 43472.cream-40.pd.infn.it
/usr/bin/qstat -f
```

Test PASSED

- Bug #80805 (BLAH job registry permissions should be improved)

```
[root@cream-40 ~]# ls -l /var/blah
total 12
-rw-r--r-- 1 tomcat tomcat 4 Dec 22 13:41 blah_bnotifier.pid
-rw-r--r-- 1 tomcat tomcat 4 Dec 22 13:41 blah_bupdater.pid
drwxrwx--t 4 tomcat tomcat 4096 Dec 22 14:37 user_blah_job_registry.bjr
[root@cream-40 ~]# ls -l /var/blah/user_blah_job_registry.bjr/
total 32548
-rw-rw-r-- 1 tomcat tomcat 25467712 Dec 22 14:38 registry
-rw-r--r-- 1 tomcat tomcat 7735260 Dec 22 14:37 registry.by_blah_index
-rw-rw-rw- 1 tomcat tomcat 0 Dec 22 14:38 registry.locktest
drwxrwx-wt 2 tomcat tomcat 4096 Dec 22 14:38 registry.npudir
drwxrwx-wt 2 tomcat tomcat 65536 Dec 22 14:38 registry.proxydir
-rw-r--r-- 1 tomcat tomcat 200 Dec 22 13:40 registry.subjectlist
[root@cream-40 ~]# ls -l /var/blah/user_blah_job_registry.bjr/registry.npudir
total 0
[root@cream-40 ~]# ls -l /var/blah/user_blah_job_registry.bjr/registry.proxydir/
total 108
lrwxrwxrwx 1 dteam009 dteam 192 Dec 22 13:39 proxy_43450.cream-40.pd.in_5YGF6T -> /var/cream_sand
lrwxrwxrwx 1 dteam009 dteam 192 Dec 22 13:39 proxy_43451.cream-40.pd.in_tlAfpa -> /var/cream_sand
```

Test PASSED

- Bug #81354 (Missing 'Iwd' Attribute when transferring files with the 'TransferInput' attribute causes thread to loop)

```
[root@cream-40 ~]# su - tomcat
-sh-3.2$ /usr/bin/blahpd
$GahpVersion: 1.16.4 Mar 31 2008 INFN\ blahpd\ (poly,new_esc_format) $
```

Verification old bugs

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```
BLAH_SET_SUDO_ID dteam001
S Sudo\ mode\ on
blah_job_submit 1 [cmd="/bin/cp";Args="fstab\ fstab.out";TransferInput="/home/dteam001/dir1/fstab
S
results
S 1
1 0 No\ error pbs/20111222/43477.cream-40.pd.infn.it
Connection closed by remote host
```

```
[root@cream-40 ~]# ls -l /home/dteam001/dir1/
total 8
-rw-r--r-- 1 dteam001 dteam 527 Dec 22 15:10 fstab
-rw-r--r-- 1 dteam001 dteam 527 Dec 22 15:11 fstab.out
```

### Test PASSED

- Bug #81824 (yaim-cream-ce should manage the attribute bupdater\_loop\_interval)

```
[root@cream-17 cream-40]# grep BUPDATER_LOOP_INTERVAL services/glite-creamce
BUPDATER_LOOP_INTERVAL=42
```

### After yaim reconfiguration:

```
[root@cream-40 ~]# grep bupdater_loop_interval /etc/blah.config
bupdater_loop_interval=42
```

### Test PASSED

- Bug #82281 (blahp.log records should always contain CREAM job ID)

### Try first with direct submission:

```
[ale@cream-12 UI]$ glite-ce-job-submit -a -r cream-40.pd.infn.it:8443/cream-pbs-creamtest1 cream.
https://cream-40.pd.infn.it:8443/CREAM974280852
```

```
[root@cream-40 ~]# grep CREAM974280852 /var/log/cream/accounting/blahp.log-20111222
"timestamp=2011-12-22 14:25:08" "userDN=/C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio
```

### Try submission through a WMS:

```
[ale@cream-12 UI]$ glite-wms-job-submit -a -c etc/wmp_devel11.conf -r cream-40.pd.infn.it:8443/cr
Connecting to the service https://devel11.cnaf.infn.it:7443/glite_wms_wmproxy_server
```

```
===== glite-wms-job-submit Success =====
```

```
The job has been successfully submitted to the WMPProxy
Your job identifier is:
```

```
https://devel11.cnaf.infn.it:9000/B0wtklaUDmXbO1xDDqQ23Q
```

```
=====
```

```
[ale@cream-12 UI]$ glite-wms-job-logging-info -v 2 --event Transfer https://devel11.cnaf.infn.it
- Dest jobid          =      unavailable
- Dest jobid          =      https://cream-40.pd.infn.it:8443/CREAM794974631
```

```
[root@cream-40 ~]# grep B0wtklaUDmXbO1xDDqQ23Q /var/log/cream/accounting/blahp.log-20111222
"timestamp=2011-12-22 14:28:10" "userDN=/C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Alessio
```

## Test PASSED

- Bug #82297 (blahp.log rotation period is too short)

```
[root@cream-40 ~]# cat /etc/logrotate.d/blahp-logrotate | grep rotate
rotate 365
```

## Test PASSED

- Bug #83275 (Problem in updater with very short jobs that can cause no notification to cream)

```
[ale@cream-12 UI]$ glite-ce-job-submit -a -r cream-40.pd.infn.it:8443/cream-pbs-creamtest1 creams
https://cream-40.pd.infn.it:8443/CREAM137590769
```

```
[root@cream-40 ~]# grep 137590769 /var/log/cream/glite-ce-bnotifier.log
2011-12-22 15:44:59 Sent for Cream:[BatchJobId="43482.cream-40.pd.infn.it"; JobStatus=4; ChangeTi
```

## Test PASSED

- Bug #83347 (Incorrect special character handling for BLAH Arguments and Environment attributes)

```
[root@cream-40 ~]# su - tomcat
-sh-3.2$ /usr/bin/blahpd
$GahpVersion: 1.16.4 Mar 31 2008 INFN\ blahpd\ (poly,new_esc_format) $
BLAH_SET_SUDO_ID dteam001
S Sudo\ mode\ on
BLAH_JOB_SUBMIT 1 [Cmd="/bin/echo";Args="$HOSTNAME";Out="/tmp/stdout_115367";In="/dev/null";GridT
S
results
S 1
1 0 No\ error pbs/20111222/43483.cream-40.pd.infn.it
Connection closed by remote host

-sh-3.2$ cat /tmp/stdout_115367
cream-wn-040.pn.pd.infn.it
```

```
[root@cream-40 ~]# tracejob 43483 | grep exec_host
/var/torque/mom_logs/20111222: No such file or directory
/var/torque/sched_logs/20111222: No such file or directory
12/22/2011 15:47:59 A user=dteam001 group=dteam jobname=bl_f355dbb0979b queue=creamtest1 ctim
```

## Test PASSED

- Bug #87419 (blparser\_master add some spurious character in the BLParser command line)

```
[root@cream-41 ~]# ps ax | grep BLParserPBS
 754 pts/1 S+ 0:00 grep BLParserPBS
31468 ? Sl 0:00 /usr/bin/BLParserPBS -d 1 -l /var/log/cream/glite-pbsparser.log -s /va
```

## Test PASSED

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This topic: IGIRelease > Task25000

Topic revision: r20 - 2012-03-26 - AlessioGianelle



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