

Testing Report for BLAH 1.16.3 (Savannah task #22845)

Clean installation

Yum installation

yum installation log is available here

Yaim configuration

yaim configuration log is available here

Update

Yum update

yum update log is available here

Yaim configuration

yaim configuration log is available here

System tests

Functionality tests

Plain submission with file transfers

- Test result for LSF is available here PASSED
- Test result for Torque is available here PASSED
- Test result for SGE is available here PASSED

Old blparser for job which finishes normally

- This is what is reported in the blparser log file for PBS: PASSED

```
2011-11-02 20:33:41 Sent for Cream:[BatchJobId="914"; JobStatus=1; BlahJobName="cre38_144298043";  
2011-11-02 20:33:42 Sent for Cream:[BatchJobId="914"; JobStatus=2; BlahJobName="cre38_144298043";  
2011-11-02 20:38:53 Sent for Cream:[BatchJobId="914"; JobStatus=4; BlahJobName="cre38_144298043";
```

- This is what is reported in the blparser log file for LSF: PASSED

```
2011-11-02 20:50:08 Sent for Cream:[BatchJobId="193859"; JobStatus=1; BlahJobName="cre35_05897669  
2011-11-02 20:50:10 Sent for Cream:[BatchJobId="193859"; JobStatus=2; BlahJobName="cre35_05897669  
2011-11-02 20:55:16 Sent for Cream:[BatchJobId="193859"; JobStatus=4; BlahJobName="cre35_05897669
```

Old blparser for job which is cancelled

- This is what is reported in the blparser log file for PBS: PASSED

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```
2011-11-02 20:41:08 Sent for Cream:[BatchJobId="915"; JobStatus=1; BlahJobName="cre38_835745174";
2011-11-02 20:41:09 Sent for Cream:[BatchJobId="915"; JobStatus=2; BlahJobName="cre38_835745174";
2011-11-02 20:41:28 Sent for Cream:[BatchJobId="915"; JobStatus=3; BlahJobName="cre38_835745174";
2011-11-02 20:41:28 Sent for Cream:[BatchJobId="915"; JobStatus=4; BlahJobName="cre38_835745174";
```

- This is what is reported in the blparser log file for LSF: PASSED

```
2011-11-02 21:18:44 Sent for Cream:[BatchJobId="193887"; JobStatus=1; BlahJobName="cre35_06277464
2011-11-02 21:18:51 Sent for Cream:[BatchJobId="193887"; JobStatus=2; BlahJobName="cre35_06277464
2011-11-02 21:19:04 Sent for Cream:[BatchJobId="193887"; JobStatus=3; BlahJobName="cre35_06277464
```

New blparser for job which finishes normally

- This is what is reported in the bnotifier log file for LSF: PASSED

```
2011-11-02 19:04:53 Sent for Cream:[BatchJobId="193680"; JobStatus=2; ChangeTime="2011-11-02 19:0
2011-11-02 19:10:14 Sent for Cream:[BatchJobId="193680"; JobStatus=4; ChangeTime="2011-11-02 19:0
```

- * This is what is reported in the bnotifier log file for PBS: PASSED

```
2011-11-02 19:43:17 Sent for Cream:[BatchJobId="907.cream-38.pd.infn.it"; JobStatus=2; ChangeTime
2011-11-02 19:48:47 Sent for Cream:[BatchJobId="907.cream-38.pd.infn.it"; JobStatus=4; ChangeTime
```

- * This is what is reported in the bnotifier log file for SGE: PASSED

```
2011-11-02 20:03:17 Sent for Cream:[BatchJobId="188"; JobStatus=2; ChangeTime="2011-11-02 20:03:1
001.egee.cesga.es"; ExitReason="0"; ClientJobId="652381209"; BlahJobName="cream_652381209";]
2011-11-02 20:07:22 Sent for Cream:[BatchJobId="188"; JobStatus=4; ChangeTime="2011-11-02 20:07:1
001.egee.cesga.es"; JwExitCode=0; Reason="reason=0"; ExitReason="0"; ClientJobId="652381209"; Bla
```

New blparser for job which is cancelled

- This is what is reported in the bnotifier log file for LSF: PASSED

```
2011-11-02 19:11:54 Sent for Cream:[BatchJobId="193699"; JobStatus=1; ChangeTime="2011-11-02 19:1
2011-11-02 19:12:19 Sent for Cream:[BatchJobId="193699"; JobStatus=2; ChangeTime="2011-11-02 19:1
2011-11-02 19:13:19 Sent for Cream:[BatchJobId="193699"; JobStatus=3; ChangeTime="2011-11-02 19:1
```

- This is what is reported in the bnotifier log file for PBS: PASSED

```
2011-11-02 19:41:17 Sent for Cream:[BatchJobId="906.cream-38.pd.infn.it"; JobStatus=2; ChangeTime
2011-11-02 19:42:17 Sent for Cream:[BatchJobId="906.cream-38.pd.infn.it"; JobStatus=3; ChangeTime
```

- This is what is reported in the bnotifier log file for SGE: PASSED

```
2011-11-02 20:12:37 Sent for Cream:[BatchJobId="190"; JobStatus=3; ChangeTime="2011-11-02 20:12:3
```

New blparser for a job which is suspended and then resumed

- This is what is reported in the bnotifier log file for LSF: PASSED

```
2011-11-02 19:15:39 Sent for Cream:[BatchJobId="193710"; JobStatus=2; ChangeTime="2011-11-02 19:1
2011-11-02 19:15:59 Sent for Cream:[BatchJobId="193710"; JobStatus=5; ChangeTime="2011-11-02 19:1
2011-11-02 19:16:39 Sent for Cream:[BatchJobId="193710"; JobStatus=2; ChangeTime="2011-11-02 19:1
2011-11-02 19:16:59 Sent for Cream:[BatchJobId="193710"; JobStatus=2; ChangeTime="2011-11-02 19:1
2011-11-02 19:21:00 Sent for Cream:[BatchJobId="193710"; JobStatus=4; ChangeTime="2011-11-02 19:2
```

- * This is what is reported in the bnotifier log file for PBS: PASSED

```
[BatchJobId="913.cream-38.pd.infn.it"; JobStatus=1; ChangeTime="2011-11-02 19:51:38"; ClientJobId
```

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```
2011-11-02 19:52:18 Sent for Cream:[BatchJobId="913.cream-38.pd.infn.it"; JobStatus=5; ChangeTime
2011-11-02 19:52:48 Sent for Cream:[BatchJobId="913.cream-38.pd.infn.it"; JobStatus=1; ChangeTime
2011-11-02 19:53:48 Sent for Cream:[BatchJobId="913.cream-38.pd.infn.it"; JobStatus=2; ChangeTime
2011-11-02 19:59:18 Sent for Cream:[BatchJobId="913.cream-38.pd.infn.it"; JobStatus=4; ChangeTime
```

* This is what is reported in the bnotifier log file for SGE: PASSED

```
[BatchJobId="189"; JobStatus=2; ChangeTime="2011-11-02 20:07:19"; WorkerNode="sa3-wn001.egee.cesg
2011-11-02 20:08:27 Sent for Cream:[BatchJobId="189"; JobStatus=5; ChangeTime="2011-11-02 20:08:2
2011-11-02 20:09:32 Sent for Cream:[BatchJobId="189"; JobStatus=2; ChangeTime="2011-11-02 20:09:2
2011-11-02 20:12:42 Sent for Cream:[BatchJobId="189"; JobStatus=4; ChangeTime="2011-11-02 20:12:4
```

Regression tests

- <https://savannah.cern.ch/task/?22405> DONE

Verified using the testsuite documented at <https://twiki.cern.ch/twiki/bin/view/EMI/GE-utilsTestPlan> :

```
[rrosende@ui testCreamFramework]$ pybot -e isb_baseuri -e isb_gsiftp -e osb_basedesturi -e osb_de
=====
testCreamFramework
=====
testCreamFramework.Cream Test :: This is the main testing module,needed for testing the cream sub
=====
Set Log Level
-----
Simple Submit :: Execute /bin/uname -a.Submit the jdl and wait for final job status to be done-ok
-----
ISB Client to CE :: Execute a bash shell script.The script is stored on the UI.The jdl attribute
-----
OSB localhost :: Execute /bin/uname -a.Store std out and error streams on "gsiftp://localhost" .F
-----
Environment :: Execute a bash shell script.The script is stored locally.The jdl sets an environme
-----
Epilogue :: Execute two bash shell scripts,one for the job and the other as an epilogue.The epilo
-----
Prologue :: Execute two bash shell scripts,one for the job and the other as a prologue.The prolog
-----
CPUNumber :: Execute /bin/uname -a.Set the jdl attribute CPUNumber to a certain number.
-----
WholeNodes :: Execute /bin/uname -a.Set the jdl attribute WholeNodes to True and False.
-----
HostNumber SMPGranularity and WholeNodes :: Execute /bin/uname -a.Set the jdl attributes HostNumb
-----
Explicit Delegation :: Test job submission with explicit delegation.Three cases are tested:
-----
Job Cancel :: Test job cancellation.Two cases are tested:
-----
Job List :: Test the job listing cli utility.Store the list of the user's jobs,before and after a
-----
Job Suspend - Resume :: Submit a job and suspend it.Wait until it's state is REALLY-RUNNING.
-----
File Cleanup :: Delete any and all leftover files from the test.All the files created are located
-----
testCreamFramework.Cream Test :: This is the main testing module,needed for testing the cream sub
15 critical tests, 15 passed, 0 failed
15 tests total, 15 passed, 0 failed
```

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

Performed some stress tests towards a CREAM CE configured using the new blparser, and with job_registry_use_mmap=yes (default scenario).

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Monitored the processes using more than 20M, and blah was not among them.

At any rate the real verification is possible only in a production environment.

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

Added:

```
lsf_batch_caching_enabled=yes
batch_command_caching_filter=/usr/bin/runcmd.p
```

in blah.config.

with /usr/bin/runcmd.pl:

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

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

Verified that in /tmp/xyz there are the queries to the batch system:

```
/opt/lsf/7.0/linux2.6-glibc2.3-x86/bin/bjobs
-u
all
-l
/opt/lsf/7.0/linux2.6-glibc2.3-x86/bin/bjobs
-u
all
-l
...
```

- Bug #79324 (blah is slow in processing files in the registry.npudir directory) HOPEFULLY FIXED

Not straightforward to verify this bug fix.

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

Verified checking the permissions of /var/blah:

```
/var/blah:
total 12
-rw-r--r-- 1 tomcat tomcat    5 Oct 18 07:32 blah_bnotifier.pid
-rw-r--r-- 1 tomcat tomcat    5 Oct 18 07:32 blah_bupdater.pid
drwxrwx--t 4 tomcat tomcat 4096 Oct 18 07:38 user_blah_job_registry.bjr

/var/blah/user_blah_job_registry.bjr:
total 16
-rw-rw-r-- 1 tomcat tomcat 1712 Oct 18 07:38 registry
-rw-r--r-- 1 tomcat tomcat  260 Oct 18 07:38 registry.by_blah_index
-rw-rw-rw- 1 tomcat tomcat    0 Oct 18 07:38 registry.locktest
drwxrwx-wt 2 tomcat tomcat 4096 Oct 18 07:38 registry.npudir
drwxrwx-wt 2 tomcat tomcat 4096 Oct 18 07:38 registry.proxydir
-rw-rw-r-- 1 tomcat tomcat    0 Oct 18 07:32 registry.subjectlist
```

Regression tests

```
/var/blah/user_blah_job_registry.bjr/registry.npudir:  
total 0
```

```
/var/blah/user_blah_job_registry.bjr/registry.proxydir:  
total 0
```

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

Verified in the following way:

```
$ /usr/bin/blahpd  
$GahpVersion: 1.16.2 Mar 31 2008 INFN\ blahpd\ (poly,new_esc_format) $  
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/20111010/304.cream-38.pd.infn.it
```

```
$ ls /home/dteam001/dir1/  
fstab  fstab.out
```

Without the fix, the blah jobid was not returned.

- **Bug #81824** (yaim-cream-ce should manage the attribute bupdater_loop_interval) **FIXED**

Set BUPDATER_LOOP_INTERVAL to 30 in siteinfo.def and reconfigured via yaim. Verified that in blah.config there is:

```
bupdater_loop_interval=30
```

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

Submitted a job directly to CREAM using CREAM-CLI. In the accounting log file the following line got printed:

```
"timestamp=2011-10-10 14:37:38" "userDN=/C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Massimo
```

Submitted a job to CREAM through WMS. In the accounting log file the following line got printed:

```
"timestamp=2011-10-10 14:39:57" "userDN=/C=IT/O=INFN/OU=Personal Certificate/L=Padova/CN=Massimo
```

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

```
# cat /etc/logrotate.d/blahp-logrotate  
/var/log/cream/accounting/blahp.log {  
    copytruncate  
    rotate 365  
    size = 10M  
    missingok  
    nomail  
}
```

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

Verified submitting very short jobs (which do just an echo and without sandbox). Verified that notifications are sent:

```
2011-11-04 14:11:11 Sent for Cream:[BatchJobId="927.cream-38.pd.infn.it"; JobStatus=4; ChangeTime
```

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

Submitted using this BLAH_JOB_SUBMIT command:

```
BLAH_JOB_SUBMIT 1 [Cmd="/bin/echo";Args="$HOSTNAME";Out="/tmp/stdout_115367";In="/dev/null";GridT
```

Verified that in the output file there is the hostname of the WN

- Bug #85340 (BUUpdaterPBS seems to ignore tracejob_logs_to_read variable) FIXED

Verified the fix in the following way:

- Set `tracejob_logs_to_read` to 2 in `blah.config`
- Set `bupdater_debug_level` to 3
- Restarted the `bupdater`
- Submitted a job
- Stopped `tomcat` and the `bupdater-bnotifier` before the end of the job
- Restarted `tomcat` (and therefore `bupdater` and `bnotifier`)
- Check the `bupdater` log where the following strings were found:

```
2011-10-12 07:26:09 /usr/bin/BUUpdaterPBS: command_string in FinalStateQuery is:/usr/bin/tracejob
2011-10-12 07:26:40 /usr/bin/BUUpdaterPBS: command_string in FinalStateQuery is:/usr/bin/tracejob
```

- Bug #85341 (Parsing error in BUUpdaterPBS leads to segfault) HOPEFULLY FIXED

To reproduce the problem, `tracejob` output should contain something like:

```
08/08/2011 03:59:06 S preparing to send 'e' mail for job 430589.tonia.d-grid.scai.fraunhofer.de t
```

Issuing (on torque 2.5.7-2 provided by epel):

```
qmgr -c 'set server mail_domain=pd.infn.it'
```

I am not able to reproduce that, and therefore I am not able to verify the fix

- Bug #86050 (Due to a syntax error hung child processes cannot be killed) FIXED

Verified checking the code

- Bug #87419 (`blparser_master` add some spurious character in the `BLParser` command line) FIXED

Verified configured a CREAM CE using the old `blparser`.

A `ps` doesn't show spurious characters anymore:

```
root      26485  0.0  0.2 155564  5868 ?        S1   07:36   0:00 /usr/bin/BLParserPBS -d 1 -l /va
```

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- Bug #87995 (BLParserLSF segfault if log list is too long) HOPEFULLY FIXED

Not straightforward to reproduce this problem and therefore to verify the fix.

-- MassimoSgaravatto - 2011-10-10

This topic: CREAM > Blah1163

Topic revision: r11 - 2011-11-04 - MassimoSgaravatto



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