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<b>Summarizing</b>	

# PSI test

using a gLite3.1 UI\_TAR installed locally on a SL4 node:

- install CMSSW\_3\_4\_0
- Install CRAB 2\_6\_6 and send jobs to the grid

## UI installation

TAR installation to be done in a clean shell ON A slc4 node (--noprofile needed as a UI is already installed):

```
ssh HOST /bin/bash --noprofile
```

**test 1:** voms-proxy-init -voms cms = OK

**test 2:** glite-wms-job-submit -a GridTests/hostname.jdl

*second try*

glite-wms-job-submit: error while loading shared libraries: libxml2.so.2: cannot open shared object file: No such file or directory

solution: Installing the missing library:

```
yum install libxml2
```

*third try*

glite-wms-job-submit: error while loading shared libraries: libcurl.so.3: cannot open shared object file: No such file or directory

solution: Installing the missing libraries:

```
# yum install curl.i386
Loaded plugins: kernel-module
Setting up Install Process
Parsing package install arguments
Resolving Dependencies
--> Running transaction check
---> Package curl.i386 0:7.15.5-2.1.el5_3.5 set to be updated
--> Processing Dependency: libidn.so.11 for package: curl
--> Running transaction check
---> Package libidn.i386 0:0.6.5-1.1 set to be updated
--> Finished Dependency Resolution
Beginning Kernel Module Plugin
Finished Kernel Module Plugin
```

Dependencies Resolved

```
=====
Package                                Arch                                Version
=====
Installing:
  curl                                  i386                                7.15.5-2.1.el5_3.5
Installing for dependencies:
  libidn                                i386                                0.6.5-1.1
=====
```

Transaction Summary

```
=====
Install      2 Package(s)
Update      0 Package(s)
Remove      0 Package(s)
[...]
Complete!
```

*fourth try*

```
glite-wms-job-submit -a GridTests/hostname.jdl
```

```
Error - Wrong Value
Unable to resolve the hostname: my-wms.psi.ch
```

solution: put desy wms

*fifth try*

```
glite-wms-job-submit -a GridTests/hostname.jdl
```

```
Connecting to the service https://grid-wms10.desy.de:7443/glite_wms_wmproxy_server
```

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

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

```
https://grid-lb2.desy.de:9000/8LevBGKTKbhGkrpNoki9JQ
```

OK

**test 3:** `glite-wms-job-status https://grid-lb2.desy.de:9000/8LevBGKTKbhGkrpNoki9JQ` [↗](#)

```
Traceback (most recent call last):
```

```
  File "/shome/leo/gLite/glite-UI-3.1.43-0/glite/bin/glite-wms-job-status", line 31, in ?
    import UIutils
  File "/shome/leo/gLite/glite-UI-3.1.43-0/glite/lib/python/UIutils.py", line 23, in ?
    from glite_wmsui_UcWrapper import UCredential
  File "/shome/leo/gLite/glite-UI-3.1.43-0/glite/lib/python/glite_wmsui_UcWrapper.py", line 5, in ?
    import _glite_wmsui_UcWrapper
ImportError: /shome/leo/gLite/glite-UI-3.1.43-0/glite/lib/_glite_wmsui_UcWrapper.so: wrong ELF cl
```

Sounds like a 32/64 issue.

Solution: None. Maybe using CRAB can be a workaround

## CRAB installation on t3wn08 (SLC5)

installing CRAB\_2\_6\_6 on t3wn08 (SLC5):

<https://twiki.cern.ch/twiki/bin/view/CMS/SWGuideCrab>

After downloading and untarring:

```
#!/configure
Configuring CRAB.....
Done
```

UI installation

## CMSSW installation on t3wn08 (SLC5)

Reference: [https://twiki.cern.ch/twiki/bin/viewauth/CMS/CMSSW\\_aptinstaller](https://twiki.cern.ch/twiki/bin/viewauth/CMS/CMSSW_aptinstaller)

```
unset VO_CMS_SW_DIR
export VO_CMS_SW_DIR=/shome/leo/SL5Test/cmssw
export SCRAM_ARCH=slc5_ia32_gcc434
export LANG=C
```

Installing:

```
source $VO_CMS_SW_DIR/$SCRAM_ARCH/external/apt/0.5.15lorg3.2-cms2//etc/profile.d/init.sh

apt-get install cms+cmssw+CMSSW_3_4_1
```

No errors, OK.

Installing a local CMSSW\_3\_4\_1 scram area:

```
# source SL5Test/cms/cmsset_default.sh
# cd SL5Test
# mkdir TestCMSSW
# cd TestCMSSW
# scramv1 p CMSSW CMSSW_3_4_1
```

No problems, testing a simple cfg (only reads files from a local root file):

```
# eval `scramv1 ru -sh`
# cmsRun read_files_cfg.py
```

Test OK.

## Testing CRAB on t3wn08 (SLC5)

Sourcing the proper env from a clean shell:

```
# source gLite/gLite-UI-3.1.43-0/etc/profile.d/grid-env.sh
# source ~/SL5Test/CRAB_2_6_6/crab.sh
# source SL5Test/cms/cmsset_default.sh
# cd ~/SL5Test/TestCMSSW/CMSSW_3_4_1/src
# cmsenv
/bin/bash: line 8: cmsenv: command not found
# eval `scramv1 ru -sh`
```

uhm, cmsenv does not work... the good ol' fashioned eval does the job.

Creating crab jobs (using the read\_files\_cfg\_py config file):

```
# crab -create

crab: Version 2.6.6 running on Thu Jan 14 09:54:24 2010 CET (08:54:24 UTC)

crab. Working options:
    scheduler           glite
    job type            CMSSW
    server              OFF
    working directory   /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_095422/

crab: Downloading config files for WMS: https://cmsweb.cern.ch/crabconf/gLite_wms_CERN.conf
[...]
```

## LSSlc5UI < Main < TWiki

```
crab: Contacting Data Discovery Services ...
crab: Requested dataset: /MinimumBias/BeamCommissioning09-CSCSkim_BeamHalo_MinBias-Dec19thSkim_3

crab: May not create the exact number_of_jobs requested.
crab: 5 job(s) can run on 10 events.

crab: List of jobs and available destination sites:

Block      1: jobs                1-5: sites: T2_US_Purdue, T2_US_UCSD, T2_US_Florida, T2_DE_RWT

crab: Creating 5 jobs, please wait...
crab: Total of 5 jobs created.
```

Log file is /shome/leo/SL5Test/TestCMSSW/CMSSW\_3\_4\_1/src/crab\_0\_100114\_095422/log/crab.log

Sounds good.

Checking job status:

```
# crab -status

crab: Version 2.6.6 running on Thu Jan 14 09:57:35 2010 CET (08:57:35 UTC)

crab. Working options:
    scheduler           glite
    job type            CMSSW
    server              OFF
    working directory   /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_095422/

crab: Checking the status of all jobs: please wait
Traceback (most recent call last):
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/crab.py", line 878, in ?
    crab.run()
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/crab.py", line 816, in run
    if act in self.actions.keys(): self.actions[act].run()
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/Status.py", line 25, in run
    self.query()
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/Status.py", line 41, in query
    upTask = common.scheduler.queryEverything(task['id'])
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/Scheduler.py", line 321, in queryEverything
    return self.boss().queryEverything(taskid)
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/Boss.py", line 159, in queryEverything
    statusRes = self.schedSession().query( str(taskid) )
  File "/shome/leo/SL5Test/CRAB_2_6_6/external/ProdCommon/BossLite/API/BossLiteAPISched.py", line
    self.scheduler.query( task, queryType )
  File "/shome/leo/SL5Test/CRAB_2_6_6/external/ProdCommon/BossLite/Scheduler/Scheduler.py", line
    self.schedObj.query( obj, self.parameters['service'], objType )
  File "/shome/leo/SL5Test/CRAB_2_6_6/external/ProdCommon/BossLite/Scheduler/SchedulerGLiteAPI.py
    from ProdCommon.BossLite.Scheduler.GLiteLBQuery import GLiteLBQuery
  File "/shome/leo/SL5Test/CRAB_2_6_6/external/ProdCommon/BossLite/Scheduler/GLiteLBQuery.py", li
    from glite_wmsui_LbWrapper import Status
  File "/shome/leo/gLite/gLite-UI-3.1.43-0/gLite/lib/python/gLite_wmsui_LbWrapper.py", line 5, in
    import _glite_wmsui_LbWrapper
ImportError: No module named _glite_wmsui_LbWrapper
```

from Zhiling page: <https://twiki.cscs.ch/twiki/bin/view/CmsTier3/CrabSgeToubleshooting>

```
export PYTHONPATH=${PYTHONPATH}:${GLITE_LOCATION}/lib
```

Trying again:

```
# crab -status
crab: Version 2.6.6 running on Thu Jan 14 09:59:14 2010 CET (08:59:14 UTC)
```

Testing CRAB on t3wn08 (SLC5)

```
crab. Working options:
    scheduler          glite
    job type           CMSSW
    server             OFF
    working directory  /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_095422/
```

crab: Checking the status of all jobs: please wait

crab:

ID	STATUS	E_HOST	EXE_EXIT_CODE	JOB_EXIT_STATUS
1	Created			
2	Created			
3	Created			
4	Created			
5	Created			

crab: 5 Total Jobs

>>>>>>>> 5 Jobs Created

List of jobs Created: 1-5

crab: You can also follow the status of this task on :

CMS Dashboard: [http://dashb-cms-job-task.cern.ch/taskmon.html#task=leo\\_crab\\_0\\_100114\\_095422](http://dashb-cms-job-task.cern.ch/taskmon.html#task=leo_crab_0_100114_095422)

Your task name is: leo\_crab\_0\_100114\_095422\_a72t3v

### Nice. Trying to submit jobs:

```
# crab -submit
```

crab: Version 2.6.6 running on Thu Jan 14 09:59:51 2010 CET (08:59:51 UTC)

```
crab. Working options:
```

```
    scheduler          glite
    job type           CMSSW
    server             OFF
    working directory  /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_095422/
```

crab: Checking available resources...

crab: Found compatible site(s) for job 1

crab: 1 blocks of jobs will be submitted

crab: failed to delegate proxy to [https://wms011.cnaf.infn.it:7443/glite\\_wms\\_wmproxy\\_server](https://wms011.cnaf.infn.it:7443/glite_wms_wmproxy_server) : Un

glite-proxy-cert: error while loading shared libraries: libssl.so.4: cannot open shared object fi

from here: <https://hypernews.cern.ch/HyperNews/CMS/get/crabFeedback/2756/1/1.html>

```
# yum install openssl097a
```

Loaded plugins: kernel-module

Setting up Install Process

Parsing package install arguments

Resolving Dependencies

--> Running transaction check

---> Package openssl097a.x86\_64 0:0.9.7a-9.el5\_2.1 set to be updated

---> Package openssl097a.i386 0:0.9.7a-9.el5\_2.1 set to be updated

--> Finished Dependency Resolution

Beginning Kernel Module Plugin

Finished Kernel Module Plugin

Dependencies Resolved

Package	Arch	Version
Installing:		
openssl097a	i386	0.9.7a-9.el5_2.1
openssl097a	x86_64	0.9.7a-9.el5_2.1

[..]

Complete!

**Trying again:**

```
#crab -submit
crab: Version 2.6.6 running on Thu Jan 14 10:09:11 2010 CET (09:09:11 UTC)

crab. Working options:
    scheduler          glite
    job type           CMSSW
    server             OFF
    working directory  /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_100849/

crab: Checking available resources...
crab: Found compatible site(s) for job 1
crab: 1 blocks of jobs will be submitted
Traceback (most recent call last):
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/crab.py", line 878, in ?
    crab.run()
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/crab.py", line 812, in run
    if act in self.actions.keys(): self.actions[act].run()
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/Submitter.py", line 111, in run
    njs = self.perfromSubmission(list_matched, task)
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/Submitter.py", line 200, in perfromSubmission
    common.scheduler.submit(self.sub_jobs[ii],task)
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/Scheduler.py", line 311, in submit
    self.boss().submit(task['id'],sub_list,req)
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/Boss.py", line 131, in submit
    task_sub = self.schedSession().submit( taskId, jobsList,req )
  File "/shome/leo/SL5Test/CRAB_2_6_6/external/ProdCommon/BossLite/API/BossLiteAPISched.py", line
    self.scheduler.submit( task, requirements )
  File "/shome/leo/SL5Test/CRAB_2_6_6/external/ProdCommon/BossLite/Scheduler/Scheduler.py", line
    self.parameters['config'], self.parameters['service']\
  File "/shome/leo/SL5Test/CRAB_2_6_6/external/ProdCommon/BossLite/Scheduler/SchedulerGLiteAPI.py
    endpoints = self.wmsResolve( endpoints )
  File "/shome/leo/SL5Test/CRAB_2_6_6/external/ProdCommon/BossLite/Scheduler/SchedulerGLiteAPI.py
    wmsList.append(pre + socket.gethostbyaddr( wms )[0] + post)
socket.herror: (2, 'Host name lookup failure')
```

???

**Testing with crab server:**

```
# crab -submit
crab: Version 2.6.6 running on Thu Jan 14 10:13:01 2010 CET (09:13:01 UTC)

crab. Working options:
    scheduler          glite
    job type           CMSSW
    server             ON
    working directory  /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_101228/

Traceback (most recent call last):
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/crab.py", line 877, in ?
    crab.initialize_(options)
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/crab.py", line 166, in initialize_
    self.initializeActions_(opts)
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/crab.py", line 543, in initializeActions_
    self.actions[opt] = SubmitterServer(self.cfg_params, self.parseRange_(val), val)
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/SubmitterServer.py", line 24, in __init__
    self.copyTout= setLcgTimeout()
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/crab_util.py", line 692, in setLcgTimeout
    if checkLcgUtils() >= 17: opt=' --connect-timeout 600 '
  File "/shome/leo/SL5Test/CRAB_2_6_6/python/crab_util.py", line 684, in checkLcgUtils
    num_ver = int(temp[0])*10
ValueError: invalid literal for int(): cp: error while loading shared libraries: libldap
```

Damn, I forgot the magic dependency package!

<https://twiki.cern.ch/twiki/bin/view/LCG/SL5DependencyRPM>

<https://hypernews.cern.ch/HyperNews/CMS/get/crabFeedback/2757.html>

So:

```
# yum install HEP_OSlibs_SL5
Loaded plugins: kernel-module
Setting up Install Process
Parsing package install arguments
Resolving Dependencies
--> Running transaction check
---> Package HEP_OSlibs_SL5.x86_64 0:1.0.1-0 set to be updated
filelists.xml.gz
filelists.xml.gz
[..]
Dependencies Resolved
```

```
=====
Package                               Arch                               Version
=====
Installing:
HEP_OSlibs_SL5                        x86_64                             1.0.1-0
Installing for dependencies:
alsa-lib                              i386                                1.0.17-1.e15
bzip2-libs                            i386                                1.0.3-4.e15_2
compat-db                             i386                                4.2.52-5.1
compat-glibc                          x86_64                             1:2.3.4-2.26
compat-glibc                          i386                                1:2.3.4-2.26
compat-glibc-headers                 x86_64                             1:2.3.4-2.26
compat-libf2c-34                     i386                                3.4.6-4
compat-libf2c-34                     x86_64                             3.4.6-4
compat-libstdc++-33                  i386                                3.2.3-61
compat-openldap                      i386                                2.3.43_2.2.29-3.
compat-openldap                      x86_64                             2.3.43_2.2.29-3.
compat-readline43                   i386                                4.3-3
compat-readline43                   x86_64                             4.3-3
fontconfig                           i386                                2.4.1-7.e15
freetype                             i386                                2.2.1-21.e15_3
giflib                               i386                                4.1.3-7.1.e15_3.
gmp                                   i386                                4.1.4-10.e15
libXcursor                          i386                                1.1.7-1.1
libXfixes                            i386                                4.0.1-2.1
libXft                               i386                                2.1.10-1.1
libXinerama                         i386                                1.0.1-2.1
libXmu                               i386                                1.0.2-5
libXp                                i386                                1.0.0-8.1.e15
libXpm                               i386                                3.5.5-3
libXrandr                           i386                                1.1.1-3.1
libXrender                          i386                                0.9.1-3.1
libXtst                             i386                                1.0.1-3.1
libgfortran                         i386                                4.1.2-44.e15
libjpeg                             i386                                6b-37
libpng                              i386                                2:1.2.10-7.1.e15
libtiff                             i386                                3.8.2-7.e15_3.4
libxml2-devel                       i386                                2.6.26-2.1.2.8
openmotif                           i386                                2.3.1-2.e15
openmotif22                         i386                                2.2.3-18
openmotif22                         x86_64                             2.2.3-18
sqlite                              i386                                3.3.6-2
=====
```

Transaction Summary



```

Install      37 Package(s)
Update      0 Package(s)
Remove      0 Package(s)

```

```

[...]
Complete!

```

### Trying again with CRAB server:

```

# crab -submit
crab: Version 2.6.6 running on Thu Jan 14 10:23:49 2010 CET (09:23:49 UTC)

crab. Working options:
    scheduler          glite
    job type           CMSSW
    server             ON
    working directory  /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_102300/

crab: Registering credential to the server : crab1.ba.infn.it
crab: Credential successfully delegated to the server.

crab: Starting sending the project to the storage dot1-prod-2.ba.infn.it...

crab: ERROR : Unable to create SE destination interface
Project leo_crab_0_100114_102300_87dsg5 not Submitted

Log file is /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_102300/log/crab.log

```

Can be a SE misconfiguration, checking later

### Trying with Stand Alone submission:

```

# crab -create -submit
crab: Version 2.6.6 running on Thu Jan 14 10:26:00 2010 CET (09:26:00 UTC)

crab. Working options:
    scheduler          glite
    job type           CMSSW
    server             OFF
    working directory  /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_102558/

crab: Contacting Data Discovery Services ...
crab: Requested dataset: /MinimumBias/BeamCommissioning09-CSCSkim_BeamHalo_MinBias-Dec19thSkim_3

crab: May not create the exact number_of_jobs requested.
crab: 5 job(s) can run on 10 events.

crab: List of jobs and available destination sites:

Block      1: jobs                1-5: sites: T2_US_Purdue, T2_US_UCSD, T2_US_Florida, T2_DE_RWT

crab: Creating 5 jobs, please wait...
crab: Total of 5 jobs created.

crab: Checking available resources...
crab: Found compatible site(s) for job 1
crab: 1 blocks of jobs will be submitted
crab: Total of 5 jobs submitted.
Log file is /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_102558/log/crab.log

```

sounds good.

Checking job status:

## LSSlc5UI < Main < TWiki

```
crab -status
crab: Version 2.6.6 running on Thu Jan 14 11:01:57 2010 CET (10:01:57 UTC)

crab. Working options:
  scheduler      glite
  job type       CMSSW
  server         OFF
  working directory /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_102558/

crab: Checking the status of all jobs: please wait
crab:
ID      STATUS      E_HOST                                     EXE_EXIT_CODE  JOB_EXIT_STATUS
-----
1       Ready       grid-ce.physik.rwth-aachen.de
2       Ready       grid-ce.physik.rwth-aachen.de
3       Ready       grid-ce.physik.rwth-aachen.de
4       Ready       grid-ce.physik.rwth-aachen.de
5       Ready       grid-ce.physik.rwth-aachen.de

crab: 5 Total Jobs
>>>>>>>> 5 Jobs Ready
List of jobs Ready: 1-5

crab: You can also follow the status of this task on :
CMS Dashboard: http://dashb-cms-job-task.cern.ch/taskmon.html#task=leo_crab_0_100114_102558
Your task name is: leo_crab_0_100114_102558_08nq4p
```

Log file is /shome/leo/SL5Test/TestCMSSW/CMSSW\_3\_4\_1/src/crab\_0\_100114\_102558/log/crab.log

### OK. Getting back the jobs:

```
# crab -getoutput
crab: Version 2.6.6 running on Thu Jan 14 11:19:11 2010 CET (10:19:11 UTC)

crab. Working options:
  scheduler      glite
  job type       CMSSW
  server         OFF
  working directory /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_102558/

crab: Results of Jobs # 1 are in /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_102558
crab: Results of Jobs # 2 are in /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_102558
crab: Results of Jobs # 3 are in /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_102558
crab: Results of Jobs # 4 are in /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_102558
crab: Results of Jobs # 5 are in /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_102558
Log file is /shome/leo/SL5Test/TestCMSSW/CMSSW_3_4_1/src/crab_0_100114_102558/log/crab.log
```

Ok, it does work!

## UI 3.1 installation on t3wn08 (SL5)

In the system with the packages installed above.

```
# ssh t3wn08 /bin/bash --noprofile
# cd /shome/leo/gLite/gLite-UI-3.1.43-0-SL5
# tar xvzf glite-UI-3.1.43-0.tar.gz
# tar xvzf glite-UI-3.1.43-0-external.tar.gz
# glite/yaim/bin/yaim -v -s site-info.def -n UI_TAR
WARNING:
WARNING: *****
WARNING: Your siteinfo directory is world readable. This is generally a bad idea
WARNING: as configuration files may contain passwords and other sensitive information.
```

## LSSlc5UI < Main < TWiki

WARNING: \*\*\*\*\*

WARNING:

INFO: Using site configuration file: site-info.def

INFO:

#####

```
.          /'.-. ')
.   yA,-"-,( ,m,:/ ) .oo.   oo   o   ooo o.   .oo
.   /          .-Y a   a Y-.   8. .8'   8'8.   8   8b   d'8
.   /          ~ ~ /          8'   .8oo88.   8   8   8'   8
.   (_/          '===='       8   .8'   8.   8   8   Y   8
.   Y,-''-,YY,-.,/          o8o o8o   o88o o8o o8o   o8o
.   I_))_) I_))_)
```

current working directory: /shome/leo/gLite/glite-UI-3.1.43-0-SL5

site-info.def date: Jan 14 11:03 site-info.def

yaim command: -v -s site-info.def -n UI\_TAR

log file: /shome/leo/gLite/glite-UI-3.1.43-0-SL5/glite/yaim/bin/./log/yaimlog

Thu Jan 14 11:08:53 CET 2010 : glite/yaim/bin/yaim

Installed YAIM versions:

glite-yaim-clients 4.0.8-7

glite-yaim-core 4.0.8-7

#####

INFO: The default location of the grid-env.(c)sh files will be: /shome/leo/gLite/glite-UI-3.1.

INFO: Sourcing the utilities in /shome/leo/gLite/glite-UI-3.1.43-0-SL5/glite/yaim/functions/ut

INFO: Detecting environment

INFO: Executing function: config\_certs\_userland\_check

INFO: Executing function: config\_sysconfig\_lcg\_check

INFO: Executing function: config\_globus\_clients\_check

INFO: Executing function: config\_lcgenv\_check

INFO: Executing function: config\_rgma\_client\_check

INFO: Executing function: config\_workload\_manager\_client\_check

INFO: Executing function: config\_amga\_client\_check

INFO: Executing function: config\_gsisssh\_check

INFO: Executing function: config\_glite\_ui\_check

INFO: Executing function: config\_ui\_tar\_check

INFO: Executing function: config\_vomses\_check

INFO: Executing function: config\_vomsdir\_check

INFO: Executing function: config\_globus\_devel\_check

INFO: Checking is done.

INFO: All the necessary variables to configure UI\_TAR are defined in your configuration files.

INFO: Please, bear in mind that YAIM only guarantees the definition of variables

INFO: controlled in the \_check functions.

INFO: YAIM terminated succesfully.

# glite/yaim/bin/yaim -c -s site-info.def -n UI\_TAR

WARNING:

WARNING: \*\*\*\*\*

WARNING: Your siteinfo directory is world readable. This is generally a bad idea

WARNING: as configuration files may contain passwords and other sensitive information.

WARNING: \*\*\*\*\*

WARNING:

INFO: Using site configuration file: site-info.def

INFO:

#####

```
.          /'.-. ')
.   yA,-"-,( ,m,:/ ) .oo.   oo   o   ooo o.   .oo
.   /          .-Y a   a Y-.   8. .8'   8'8.   8   8b   d'8
.   /          ~ ~ /          8'   .8oo88.   8   8   8'   8
.   (_/          '===='       8   .8'   8.   8   8   Y   8
.   Y,-''-,YY,-.,/          o8o o8o   o88o o8o o8o   o8o
.   I_))_) I_))_)
```

## LSSlc5UI < Main < TWiki

```
current working directory: /shome/leo/gLite/gLite-UI-3.1.43-0-SL5
site-info.def date: Jan 14 11:03 site-info.def
yaim command: -c -s site-info.def -n UI_TAR
log file: /shome/leo/gLite/gLite-UI-3.1.43-0-SL5/gLite/yaim/bin/./log/yaimlog
Thu Jan 14 11:09:50 CET 2010 : gLite/yaim/bin/yaim
```

```
Installed YAIM versions:
glite-yaim-clients 4.0.8-7
glite-yaim-core 4.0.8-7
```

```
#####
INFO: The default location of the grid-env.(c)sh files will be: /shome/leo/gLite/gLite-UI-3.1.
INFO: Sourcing the utilities in /shome/leo/gLite/gLite-UI-3.1.43-0-SL5/gLite/yaim/functions/ut
INFO: Detecting environment
INFO: Executing function: config_certs_userland_check
INFO: Executing function: config_sysconfig_lcg_check
INFO: Executing function: config_globus_clients_check
INFO: Executing function: config_lcgenv_check
INFO: Executing function: config_rgma_client_check
INFO: Executing function: config_workload_manager_client_check
INFO: Executing function: config_amga_client_check
INFO: Executing function: config_gsissh_check
INFO: Executing function: config_ui_tar_check
INFO: Executing function: config_vomses_check
INFO: Executing function: config_vomsdir_check
INFO: Executing function: config_globus_devel_check
INFO: Executing function: config_certs_userland_setenv
INFO: Executing function: config_certs_userland
INFO: Certificates found in /etc/grid-security/certificates or in $X509_CERT_DIR. Not installi
INFO: Executing function: config_crl
INFO: Executing function: config_sysconfig_edg
INFO: Executing function: config_sysconfig_globus
INFO: Executing function: config_sysconfig_lcg
INFO: Executing function: config_globus_clients_setenv
INFO: Executing function: config_globus_clients
INFO: Configure the globus service
setup-tmpdirs: creating ./config.status
config.status: creating globus-script-initializer
config.status: creating Paths.pm
Subroutine Compress::Zlib::gzFile::gzseek redefined at /usr/lib/perl5/vendor_perl/5.8.8/Compress/
creating globus-sh-tools-vars.sh
creating globus-script-initializer
creating Globus::Core::Paths
checking globus-hostname
Done
INFO: Executing function: config_lcgenv
Subroutine Compress::Zlib::gzFile::gzseek redefined at /usr/lib/perl5/vendor_perl/5.8.8/Compress/
INFO: Executing function: config_rgma_client_setenv
INFO: Executing function: config_rgma_client
INFO: YAIM has detected the OS is SL5. The rgma client is no longer configured in SL5.
INFO: Executing function: config_workload_manager_client_setenv
INFO: Executing function: config_workload_manager_client
INFO: Executing function: config_fts_client
INFO: Executing function: config_amga_client_setenv
INFO: Executing function: config_amga_client
INFO: Executing function: config_gsissh_setenv
INFO: Executing function: config_gsissh
Configuring gsi_openssh
-----
Executing...
chmod: changing permissions of `/tmp/gLite/gLite-ui': Operation not permitted
chmod: changing permissions of `/tmp/jobOutput': Operation not permitted
```

Notes:

- o Privilege separation is on.
- o GSI-OpenSSH website is <http://grid.ncsa.uiuc.edu/ssh/>.

-----  
 Finished configuring gsi\_openssh.

```

  INFO: Executing function: config_glite_ui_setenv
  INFO: Executing function: config_glite_ui
  WARNING: The file /tmp/jobOutput specified in the variable OUTPUT_STORAGE doesn't exist
  WARNING: The user is responsible for creating this file !
  INFO: Executing function: config_ui_tar_setenv
  INFO: Executing function: config_ui_tar
  INFO: Executing function: config_vomses
  INFO: Executing function: config_vomsdir_setenv
  INFO: Executing function: config_vomsdir
  INFO: Executing function: config_globus_devel_setenv
  Subroutine Compress::Zlib::gzFile::gzseek redefined at /usr/lib/perl5/vendor_perl/5.8.8/Compress/
  INFO: Executing function: config_globus_devel
  gzdopen_ is not a valid Zlib macro at /shome/leo/gLite/gLite-UI-3.1.43-0-SL5/gpt/lib/perl/Archive
  INFO: Configuration Complete. [ OK ]
  INFO: YAIM terminated succesfully.
  
```

### Usual tests:

```
source /shome/leo/gLite/gLite-UI-3.1.43-0-SL5/etc/profile.d/grid-env.sh
```

voms-proxy-init -voms cms : OK

voms-proxy-info -all : OK

glite-wms-job-submit -a GridTests/hostname.jdl

```
Connecting to the service https://grid-wms11.desy.de:7443/glite_wms_wmproxy_server
```

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

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

```
https://grid-lb1.desy.de:9000/I6oZ4p5FoKfDCoHUSHFnVQ
```

```
=====
```

```

glite-wms-job-status https://grid-lb1.desy.de:9000/I6oZ4p5FoKfDCoHUSHFnVQ
Traceback (most recent call last):
  File "/shome/leo/gLite/gLite-UI-3.1.43-0-SL5/gLite/bin/glite-wms-job-status", line 31, in ?
    import UIutils
  File "/shome/leo/gLite/gLite-UI-3.1.43-0-SL5/gLite/lib/python/UIutils.py", line 23, in ?
    from glite_wmsui_UcWrapper import UCredential
  File "/shome/leo/gLite/gLite-UI-3.1.43-0-SL5/gLite/lib/python/glite_wmsui_UcWrapper.py", line 5
    import _glite_wmsui_UcWrapper
ImportError: /shome/leo/gLite/gLite-UI-3.1.43-0-SL5/gLite/lib/_glite_wmsui_UcWrapper.so: wrong EL
  
```

sigh...

## Testing CRAB+CMSSW, again on t3wn08

Using gLite 3.1 TAR\_UI installed on SLC5

```

# source gLite/gLite-UI-3.1.43-0-SL5/etc/profile.d/grid-env.sh
# source ~/SL5Test/CRAB_2_6_6/crab.sh
# source SL5Test/cms/cmsset_default.sh
# cd ~/SL5Test/TestCMSSW/CMSSW_3_4_1/src
  
```

Testing CRAB+CMSSW, again on t3wn08

```
# eval `scramv1 ru -sh`  
# export PYTHONPATH=${PYTHONPATH}:${GLITE_LOCATION}/lib
```

crab -create: OK

crab -submit: OK

crab -status: OK

crab -getoutput: OK

## SE tests

### srmls

```
srmls srm://t3se01.psi.ch:8443/srm/managerv2?SFN=/pnfs/psi.ch/cms/trivcat//store/mc/Summer09/Zee/  
WARNING: SRM_PATH is defined, which might cause a wrong version of srm client to be executed  
WARNING: SRM_PATH=/shome/leo/gLite/gLite-UI-3.1.43-0-SL5/d-cache/srm  
987438028 /pnfs/psi.ch/cms/trivcat//store/mc/Summer09/Zee/AODSIM/MC_31X_V3_AODSIM-v1/0021/949FF
```

### srmcop

```
srmcop -2 srm://t3se01.psi.ch:8443/srm/managerv2?SFN=/pnfs/psi.ch/cms/trivcat//store/mc/Summer09/Zee/  
WARNING: SRM_PATH is defined, which might cause a wrong version of srm client to be executed  
WARNING: SRM_PATH=/shome/leo/gLite/gLite-UI-3.1.43-0-SL5/d-cache/srm
```

### cmsRun

using as input file

```
dcap://t3se01.psi.ch:22125/pnfs/psi.ch/cms/trivcat//store/mc/Summer09/Zee/AODSIM/MC_31X_V3_AODSIM  
: OK
```

## CMSSW 32 bit on SLC5

On t3wn08, export SCRAM\_ARCH=slc4\_ia32\_gcc345 and then source the normal CMSSW env.

Test with cmsRun PAT1.py CMSSW\_3\_3\_2: OK

# Summarizing

Packages to be installed on t3wn08 (SLC5):

- the magic one, HEP\_OSlibs\_SL5
- If not installed by the magic one, install

```
libxml2 curl.i386 openssl1097a
```

To have CRAB\_2\_6\_6 working on t3wn08 do:

```
# source gLite/gLite-UI-3.1.43-0/etc/profile.d/grid-env.sh
# source ~/SL5Test/CRAB_2_6_6/crab.sh
# source SL5Test/cms/cmsset_default.sh
# cd ~/SL5Test/TestCMSSW/CMSSW_3_4_1/src
# eval `scramv1 ru -sh`
# export PYTHONPATH=${PYTHONPATH}:${GLITE_LOCATION}/lib
```

Here:

- ~/gLite/gLite-UI-3.1.43-0 is the dir where I've installed the TAR\_UI
- ~/SL5Test/cms is the dir where I've installed the CMS SW
- ~/SL5Test/TestCMSSW/CMSSW\_3\_4\_1 is where I've installed my scram local working area

-- LeonardoSala - 13-Jan-2010

---

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