

# Table of Contents

<b>Env @ lxplus.....</b>	<b>1</b>
Bash string operation:.....	1
ROOT lib:.....	1
Access data:.....	1
Batch @ CERN: CAF:.....	2
<b>Resume.broken.transfer, rsync.....</b>	<b>4</b>

# Env @ lxplus

```
scram list | grep CMSSW_4_4_4  
  
ssh lxplus5.cern.ch  
  
old: export SCRAM_ARCH=slc5_ia32_gcc434  
  
cmsrel CMSSW_4_4_4  
  
= scram project CMSSW CMSSW_4_4_4  
  
cd CMSSW_4_4_4/src  
  
cmsenv  
  
= eval `scram runtime -sh`
```

## Bash string operation:

```
`${string/substring/replacement}`  
    Replace first match of $substring with $replacement .  
`${string//substring/replacement}`  
    Replace all matches of $substring with $replacement .  
`${string/#substring/replacement}`  
    If $substring matches front end of $string , substitute $replacement for $substring .  
`${string/%substring/replacement}`  
    If $substring matches back end of $string , substitute $replacement for $substring .
```

## ROOT lib:

```
{  
  
gSystem->Load("libFWCoreFWLite.so");  
AutoLibraryLoader::enable();  
  
}
```

## Access data:

```
rmdir /castor/cern.ch/user/h/heli  
  
rmdir ...  
  
rmdir ..  
  
TFile *f = TFile::Open("rfio:/castor/cern.ch/user/initial/username/myFile.root")  
  
add the following to the  
.cfg file  
source = PoolSource{ untracked vstring fileNames =  
{'rfio:/castor/cern.ch/user/initial/username/inputFile.root'} }
```

and the CASTOR web page for further information.

get files from web:

<https://cmsweb.cern.ch/filemover/>

command line query:

```
das_client.py --query='file
dataset=/DYJetsToLL_M-50_TuneZ2Star_8TeV-madgraph-tarball/Summer12_DR53X-PU_S10_START53_V7A-v1/
--limit=20
```

### Tool for downloading data:

Need grid cert at first:

```
glite-voms-proxy-init --voms cms
```

### edmCopyPickMerge

```
inputFiles=/store/mc/Summer12_DR53X/DYJetsToLL_M-50_TuneZ2Star_8TeV-madgraph-tarball/AODSIM/PU_S10
outputFile=outputfile.root
```

## Batch @ CERN: CAF:

You submit the job in the same way as that for smaller jobs.

```
bsub -q 1nd -J job1 < runMyjob.(c)sh
```

It is also possible to request a minimum amount of space in /pool/lsf/username/jobnumber using the -R option, for example to request a minimum of 30GB type

```
bsub -R "pool>30000" -q 1nd -J job1 < runMyjob.(c)sh
```

See the *lxbatch* introduction pages:

<http://batch.web.cern.ch/batch/doc/quick-intro.html>

Instructions on how to create a user code area can be found here [UserCode/README](#) :

<http://cmssw.cvs.cern.ch/cgi-bin/cmssw.cgi/UserCode/README?view=log>

setup CVS separately:

```
export CVSROOT=:gserver:cmssw.cvs.cern.ch:/local/rep/CMSSW
```

```
cvs co -r HEAD PhysicsTools/PatAlgos
```

```
cvs co -r V08-07-39 PhysicsTools/PatAlgos
```

You can also do

Access data:

```
addpkg PhysicsTools/PatAlgos HEAD
```

```
addpkg PhysicsTools/PatAlgos V08-07-39
```

If you want to query later which version you of a package you have checked out, do, for example:

```
addpkg -q PhysicsTools/PatAlgos
```

If you want to see the version of all the packages you have in your CMSSW\_4\_4\_4/src directory, do

```
showtags -q
```

# Resume broken transfer, rsync

```
rsync -vP /data/ilcwork.tar  
heli@lxplus5NOSPAMPLEASE.cern.ch:/afs/cern.ch/work/h/heli/private/old/ilcwork.tar
```

1. network, add host-only adapter

1.1. On virtual machine

`/etc/sysconfig/network-scripts/ifcfg-eth1` with the following:

```
DEVICE=eth1  
BOOTPROTO=static  
ONBOOT=yes  
IPADDR=192.168.56.101  
NETMASK=255.255.255.0  
HWADDR=08:00:27:e0:7f:d4
```

`/etc/hosts` , add

```
192.168.56.101 slc5
```

1.2. on host, add

`/etc/hosts` :

```
192.168.56.101 slc5
```

2. Enable share folder with soft link:

```
VBoxManage setextradata SLC5 VBoxInternal2/SharedFoldersEnableSymlinksCreate/data 1
```

```
VBoxManage getextradata SLC5 enumerate
```

using "root",

```
ln -s /media/sf_data /data
```

add heli to vboxsf group:

```
/usr/sbin/usermod -a -G vboxsf heli
```

3. Install Virtual box addon

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This topic: [Sandbox > RandomEntries](#)

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