

How to install the ATLAS TDAQ locally

The current tdaq version is tdaq-04-00-01,. Old tdaq-03-00-01 is locally installed in 3 workstations and 3 sbc. In addition, one sbc runs tdaq-04-00-01.

- Install the CERN slc5 operating system
- follow the instructions in <http://rhauser.web.cern.ch/rhauser/apt/howto.html>.

BEWARE: for tdaq-03-00-01 you also need to install tdaq-common-01-16-02, dqm-common-00-14-02 and LCGCMT_59a. For tdaq-04-00-01, tdaq-common-01-18-04, dqm-common-00-18-03 and LCGCMT_61c are needed

Once you reach point 4 in the aforementioned istructions (Install what you want), type:

```
apt-cache search tdaq-common-01-18-04
```

to get the list of packages to be installed. Redirect the output to a file, say list1.txt. Repeat the same step for the dqm-common and for the tdaq release. Build a file with all the lists above

```
cat list1.txt list2.txt list3.txt >> listall.txt
```

You can now build a script to install everything by typing:

```
cat listall.txt | awk -F" - " '{print "apt-get -y install", $1}' >> myscript.sh
```

Make the script executable:

```
chmod +x myscript.sh
```

You can now run the script to install all needed packages (it will take some time).

You still need to install java:

```
apt-get -y install jdk_1.6.0_1686_slc4
```

- In order for the TDAQ to run correctly, make sure you have openmotif-2.3.1-5.el5.1 installed

Further hints

- In order to have the sbc working when using the ethernet interface 2 you need the file

```
/etc/omniORB.cfg
```

- In order to open doors for communication among the various machines, you need to modify

```
/etc/sysconfig/iptables
```

and to add the appropriate names on /etc/hosts

Lab configuration

The following machines have the TDAQ software installed:

- pcslim
- pcslim2 (development workstation)
- vipix

- pcvmelucid (sbc with tdaq-03-00-01)
- pcvmelucid2 (sbc with tdaq-02-00-03)

The mysql database is used to provide the run number, and to save configuration data during runs. The server and databases are installed on pcslim. The other machines have the mysql client installed.

-- RiccardoDiSipio - 14-Jan-2011

This topic: Main > TDAQLabBologna

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