**Ansys installation and configuration**

ANSYS is an engineering simulation software (computer-aided engineering, or CAE) that offers a comprehensive range of engineering simulation solution sets providing access to virtually any field of engineering simulation that a design process requires.

The next pages describe the procedure used for the installation and configuration.

ANSYS version 13 has been downloaded from the website <http://www.ansys.com/> after personal registration as INFN employee.

ANSYS can be installed via GUI (suggested) or CLI. We describe both the procedires. No Servee License Manager installation needed.

**GUI**

1-Copy the file (ansys130\_linx64\_dvd.iso in our case) in the machine designed for the installation

2-#ssh –X to the machine where ANSYS will be installed and configured. In this way the display export is enabled

3-Mount the iso file (repeat if the iso files are more than one)

#mkdir /mnt/iso

#mount -o loop -t iso9660 ansys130\_linx64\_dvd.iso /mnt/iso

Additionally the iso files can be merged .

4-execute the installer and follow the instructions on the screen (the default option can be maintained)

# ./INSTALL -debug -install\_dir <ANSYS\_DIR\_PATH>

Suggested ANSYS\_DIR\_PATH=/opt/exp\_soft/gridit/ansys\_inc

--If this error occour:

*Error: The DISPLAY environment variable is not set.*

*In order to run the GUI version of the installation,*

*this must be set correctly.*

*If you wish to use the silent install, please use the –silent*

*install option. Please see documentation for usage instructions.*

---Set the DISPLAY variable as follow in the local\_host

DISPLAY=<DESTINATION\_HOST>:0.0; export DISPLAY

--If this error occour:

*Error while loading shared libraries: libXext.so.6: cannot open shared object file: No such file or directory*

---Install libXext.so.6 32 bit and update LD\_LIBRARY\_PATH variable

5- Pro/ENGINEER window

tick the boxes “Skip this step…”

Do the same action for the Unigraphics NX (next window)

6-License Server Machine

During the Installation the installer will ask you to set the license server(s)

When requested add the following

*Hostname#1: ansys.infn.it*

*Hostname#2: ansys2.infn.it*

*Hostname#3: ansys3.infn.it*

7-Probaly ANSYS will terminate with an error. Look at the file <ANSYS\_DIR\_PATH>/install.err.

If the error is something like the following, it is armless.

*>>>--------------------------------------->*

*ANSYS installation: Mon Oct 1 10:19:57 2012*

*Revision: 13.0*

*ERROR: /root/ansys\_test/v130/aisol/.workbench -cmd /root/ansys\_test/v130/aisol/mw/bin-amd64\_linux\_optimized/regsvr32 -c -nodisplay /root/ansys\_test/v130/aisol/dll/linx64/libans.cadint.pluginfemcom.so failed*

*>>>--------------------------------------->*

**CLI**

1-Copy the file (ansys130\_linx64\_dvd.iso in our case) in the machine designed for the installation

2-Mount the iso file (repeat if the iso files are more than one)

#mkdir /mnt/iso

#mount -o loop -t iso9660 ansys130\_linx64\_dvd.iso /mnt/iso

NOTE: Merge the content if the iso files are more than one.

3-Install ANSYS

# ./INSTALL -silent -debug ./INSTALL -silent -debug -licserverinfo 2325:1055:ansys.infn.it,ansys2.infn.it,ansys3.infn.it -install\_dir <ANSYS\_DIR\_PATH>

Suggested ANSYS\_DIR\_PATH=/opt/exp\_soft/gridit/ansys\_inc

--If this error occour:

*Error while loading shared libraries: libXext.so.6: cannot open shared object file: No such file or directory*

---Install libXext.so.6 32 bit and update LD\_LIBRARY\_PATH variable

4-Probaly ANSYS will terminate with an error. Look at the file <ANSYS\_DIR\_PATH>/install.err.

If the error is something like the following, it is armless.

*>>>--------------------------------------->*

*ANSYS installation: Mon Oct 1 10:19:57 2012*

*Revision: 13.0*

*ERROR: /root/ansys\_test/v130/aisol/.workbench -cmd /root/ansys\_test/v130/aisol/mw/bin-amd64\_linux\_optimized/regsvr32 -c -nodisplay /root/ansys\_test/v130/aisol/dll/linx64/libans.cadint.pluginfemcom.so failed*

*>>>--------------------------------------->*