

Les Houches User's Guide

The local cluster consists of one Dell workstation with two quad core processors. The IP address is: 192.168.0.5

The available disk space is around 70 Go.

1 Getting started

1.1 Account

We remind you that your login consists of the first 8 letters of your surname. When you log on for the first time, your **default** password is **houches!**. For example, Muehlleitner will login as:

```
login:      muelhle  
password:  houches!
```

The first action to take is to change the password. To do this, type: **passwd** and follow the instructions (see below the list of logins).

1.2 Using local desktop PC

Five PCs under Linux (Fedora 18) are available in priority for those who do not have a laptop. There is a generic account:

```
login:      houches  
password:  houches!
```

If you need to use the local disk, please create a directory under your name.

1.3 Using laptops

The DHCP server will automatically give you an IP address. Then your laptop will be connected to the network. You cannot print directly from your laptop, unless you modify your configuration files (at your own risk). Therefore, we recommend that you transfer the files on the server and print from there. It is also possible to connect to the server and the Internet via Wi-fi.

1.4 Using the server

To connect to the main server, open an xterm and type:

```
ssh -X loginname@192.168.0.5
```

then you will be asked for your password. In this case, the **DISPLAY** variable will be set automatically.

2 Software

2.1 Editors

The following editors can be used:

nedit 5.5	type <code>nedit</code> filename &
vim	type <code>vim</code> filename
SCiTe 1.77	type <code>scite</code> filename &
gedit 2.16	type <code>gedit</code> filename &
...	...

2.2 Symbolic software

Mathematica 9	<code>math</code> for normal mode, <code>mathematica</code> for window mode
Maple 16	<code>maple</code> for normal mode, <code>xmaple</code> for window mode
Form 4	no interactive mode, <code>form</code> inputfile > outputfile.

For Mathematica and Maple, the number of licences is limited, so be kind enough to disconnect when not using it. On the other hand, there are no limits with Form.

2.3 Numerical software

The following compilers can be used:

- `pgf77`, `pgf95` and `pgcc` (resp. the fortran 77, fortran 95 and c Portland compiler)
- `g77`, `gfortran`, `g95` (gnu fortran 77, 95 compiler)
- `gcc`, `g++` (gnu c and c++)
- `ifort` and `icc`(resp. the fortran 95 and c intel compiler)

Librairies:

- CERNLIB (2006) (location is: `/usr/lib64/cernlib/2006`)
- LHAPDF (5.8.9) (location is: `/LINUX/LAPPSL5/64bits/lhapdf`)

2.4 Graphics

You can generate plots using:

Root	type <code>root</code>
Mathematica	c.f. Symbolic software
Maple	c.f. Symbolic software

The standard viewers are available:

ps/pdf viewer	type <code>evince</code>
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2.5 TeX/LaTeX

Standard TeX/LaTeX is available on the computers.

3 Printing

Two printers are available. In order to print a file on the printer, use the command:

```
lpr -Pprintername file_name
```

The variable printername can take the value:

```
printer1rv          double-sided prints
printer2rv          double-sided prints
```

To see the printer queue, type:

```
lpq -Pprintername
```

to cancel a job in the queue, note down the job number and then type:

```
lprm -Pprintername job_number
```

Files can also be printed from one of the local desktop PC with the same command or via the graphical interface.

4 Miscellaneous

The default protection level adopted allows any participant to read the files of any other participant. You can increase the protection of your files by:

```
chmod go-r file_name1 file_name2 ...
```

```
or for a directory chmod -R go-r directory_name
```

so that no one but you will be able to read them.

Note that there will be no email facility on the local computers.

There may be some bugs, so please do not hesitate to tell us if something does not work.

For everybody, especially for the participants of the first session, please clean up your home directory on the server before leaving.

5 Appendix

This is the list of logins that we created.

alderwei	andersen	arbey	badger	balazs	basso	belanger	belyaev
bharucha	bondu	boos	boudjema	brooijma	buckley	bunichev	butterwo
cacciapa	caola	cascioli	chanon	cieri	ciulli	consonni	conte
contino	datta	deandrea	defloria	disserto	dittmaie	dolan	drieular
dumont	englert	falkowsk	fan	felcini	forte	francavi	frederix
fuks	furlan	galloway	garzelli	gasconsh	glover	godbole	golling
grafvons	gras	gray	guadagno	guillet	gunion	hameldem	hamilton
heinrich	herrmann	hoeth	howe	huston	ivanov	izaguirr	jiang
juknevic	kado	kar	kauer	kleinm	kleinu	korytov	kraml
krauss	krnjaic	kulkarni	lazopoul	lee	loch	luisoni	lyonnet
lonnblad	mahmoudi	maitre	maravin	marjanov	massiron	mazzitel	mohan
monni	montagna	moortgat	moreau	muhlleit	oleary	oleari	orlando
pataraiia	perrozzi	phan	piccinin	pilon	platzer	porod	pozzorin
prestel	pukhov	pumplin	rabbertz	raklev	ravindra	reina	richards
rosenfel	ruizalva	sanz	sapeta	schoenhe	sekmen	sengupta	sgandurr
shuve	slavich	smillie	son	soyez	spannows	spira	strobbe
tackmann	thompson	wallny	waltenbe	weiler	wilcock	winter	yundin
zanzi	zapp	zerwas	zidi				