

# Computer and network access during the CDF Collaboration Meeting at the University of Florida

## **Network Access**

### **Reitz Union**

The Reitz Union has wireless access throughout the building; however, you must enter a guest username and password for access. This is done by opening a web browser, which will call up a UF web page. Follow the instructions and enter the username and password supplied at the conference on Friday and Saturday.

### **Physics Building**

Wireless access in the Physics Building will be provided without any special registration at the following times and locations: Thursday 6–9 pm in room 2205 during the reception, Friday 8 am – 7 pm in room 2205 during the day and during the Executive board meeting, and Saturday 8 am – 5 pm in room 2205..

For wireless access during other times or locations in the Physics Building, or for wired access, the MAC address of your Ethernet card must be registered with the system managers. Please send an e-mail to Darin Acosta at [acosta@phys.ufl.edu](mailto:acosta@phys.ufl.edu) with the MAC address of your card for access (or contact one of the conference organizers if you can't send e-mail!) This needs to be done by Friday rather than over the weekend. Keep in mind that if you want both a wired and wireless MAC address registered, you cannot have both activated simultaneously.

In either case, the SSID that must be entered into your network properties for the physics wireless network is “phys-wireless”.

To do this under Linux, try something like the following from the root account (depends on your shell and Ethernet card number):

```
export ESSID=phys-wireless
/sbin/ifup eth0
```

To do this under Windows, the exact details depend on your wireless card utility, but under the card's properties you should set the network name (SSID) to phys-wireless.

## **Computer Access**

Five Windows PC's and about a dozen Sun workstations are provided in room 1212 in the Physics Building for participants. The code to enter on the door keypad for entry is . The PC's require no special login; however, the Sun workstations do. Users wishing to use the Sun workstations must obtain a temporary and single-user guest account from the system managers. Please see one of the conference organizers, or send

an e-mail to Darin Acosta, [acosta@phys.ufl.edu](mailto:acosta@phys.ufl.edu), if you would like an account. This needs to be done by Friday rather than over the weekend.

## **Kerberos**

Kerberos requires some care from within the University. The wireless and wired DHCP servers assign local private IP numbers and your machine is not visible outside the ufl.edu domain. The simplest solution is use ssh to connect to an outside computer at your home institute that has Kerberos, and from there connect to FNAL for example. You can also obtain a temporary guest account in the UF Physics Department to implement this approach (see above). Use ssh to connect to the machine “cdf.phys.ufl.edu” using your guest username and password, and from there type:

```
source ~acosta/bin/setup_cdf
kinit
```

You will then be using client-only Kerberos tools, and can log into the FNAL realm.

If you want to be able to use Kerberos directly from your laptop, keep in mind that the University uses NAT, and will map dynamic public IP number to your local IP address. You should use “kinit -A” for stock RedHat Linux releases, and “kinit -n” for recent FNAL Linux releases, so that address-less tickets are used. You may also need to add “ufl.edu” to the domain realm in your /etc/krb5.conf file. Users trying this approach are strongly encouraged to talk with a CDF computer guru.

## **Printing**

There is a laser printer for use in room 1212 of the Physics Building (see keypad access under Computer Access) with the queue name “1212duplex”. Additionally, there is a printer available in room 2052 (open M–F, 7:30–4:30) on the second floor of the Physics Building with queue name “cmtduplex”.

## **Linux**

To print to one of the above printers from the command line, just type for example:

```
lpr -Pcmtduplex@einstein.phys.ufl.edu <filename>
```

From a Departmental computer account, you don’t need to specify the host “einstein”, just the queue name.

## **OSX**

To print from the command line under Mac OSX, just follow the instructions as for Linux. To print from within an application, one method is to navigate to the following menu option: Printer→File→Print Properties→Print Command. Then you can enter the same syntax as for command line printing under Linux.

If you wish to define a system printer under OSX, the following information is needed:

```
ip printing
printer type: lpd/lpr
printer address: einstein.phys.ufl.edu
queue name: cmtduplex (or 1212duplex)
printer model: Lexmark optra T632 (or hp5siMX)
```

## Windows

To print to one of the above printers from Windows, you must set up a local printer actually. Go to Start→Printers→Add a Printer. Select “Local Printer”, and make sure the Plug & Play check box is NOT checked. Choose “Create a New Port” instead of using a standard one, and select “Standard TCP/IP Port”. You then get TCP/IP Port wizard, for which you need to enter:

```
Printer Name: einstein.phys.ufl.edu (also used for the port name).
Device Type: Custom
```

Before pushing “Finish”, you need to click on the “Settings” button and enter:

```
Protocol: lpr
LPR Settings, Queue Name: cmtduplex (or 1212duplex)
LPR Byte Counting: checked (Very important step!)
```

You will then get the Printer selection menu. For “cmtduplex”, choose Lexmark Optra T616 PS. For “1212duplex”, choose HP 5SiMx.

## Mail

If you wish to send mail from within the Physics Department network using your computer, set the mail server to: `phys.ufl.edu`