HOWTO – How to log in to the retz server

Document history

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Introduction

The retz server is calculating- and file server used for research at Retzius Lab. It is a powerful server with dual CPUs, each having 4 cores. The CPU's do also have Hyper Treading which gives, in principle, a total of 16 cores. The server has 48 GByte of RAM and 13 TByte of disk space.

KI's Office Network and VPN

The retz server server is directly accessible from the office network. (I.e. computers connected to the local LAN at Retzius Väg 8.) If the computer is connected to an other network, KI's VPN have to be used.

Go to the following site to get KI's VPN:

http://ki.se/ki/jsp/polopoly.jsp?l=en&d=3242

Log in by using the credentials you are using for your mail.

Information on how to use KI's VPN can be found on KI's site for the VPN.

In order to be able to login to retz a user account have to be created. The account have a username and a password.

SSH, Secure Shell

Ssh is used to do a terminal login to retz. A ssh client for Windows can be found here:

http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html

Download and use putty.exe to do a ssh login to retz by using the username and password for your account on retz.

VNC, Virtual Network Computing

To use retz graphical GUI VNC can be used. A VNC client can be downloade at:

http://www.realvnc.com/

The free but, in functionality, reduced application is for Windows and some flavors of UNIX.

Starting a VNC server in your account

To be able to use the graphical interface VNC is used. The user starts a VNC server in the users accounts. This is typically done only once.

To start a VNC server under the users account, log in to retz with putty (or by using ssh). Use the path: retz.cns.ki.se and port 22 as shown in fig. 1 below.

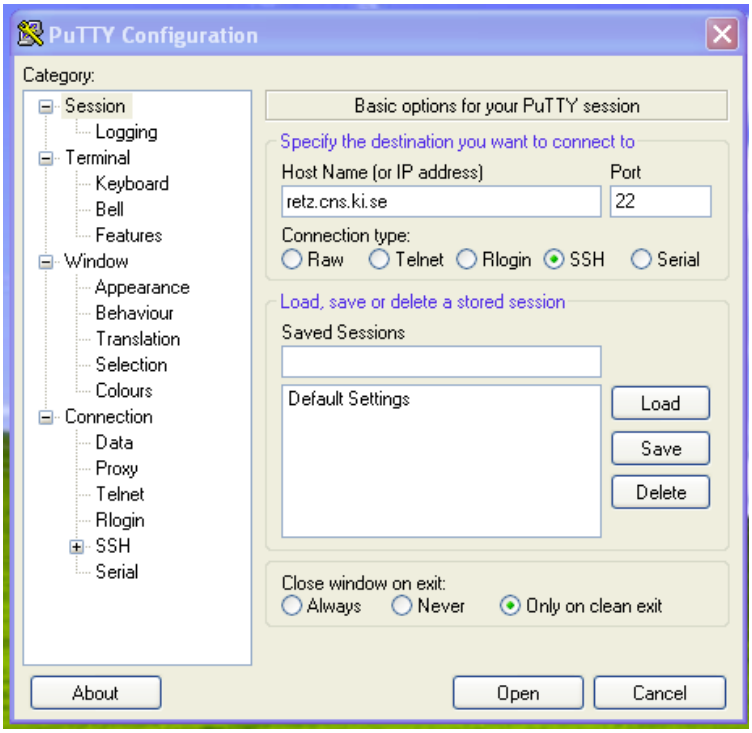

Figure 1. Loging in to retz with putty.

When connecting to retz the first time you will get the following question about the fingerprint. The fingerprint for the retz server is:
f3:c1:f3:e0:d1:36:4e:ca:c0:15:d5:5d:cc:4f:b8:3e
Click yes if you got this fingerprint.

Figure 2. Fingerprint question first time you login in to retz.

In puttys terminal window log in with your user-credentials on retz as show below

Figure 3. Give your username and password.

In the ssh's termianl type the following:

Vncserver

You will get the followin output (you will have your own username):

urban@retz:~$ vncserver

You will require a password to access your desktops.

Password:
Verify:
Would you like to enter a view-only password (y/n)? n

New 'X' desktop is retz:7

Creating default startup script /home/urban/.vnc/xstartup
Starting applications specified in /home/urban/.vnc/xstartup
Log file is /home/urban/.vnc/retz:7.log

urban@retz:~$

Choose and fill in a password.

Do also make a note of the desktop number. In this example it is 7
(See the following line above: New 'X' desktop is retz:7)

The vncserver configurations are shown in the fig. 4 below.

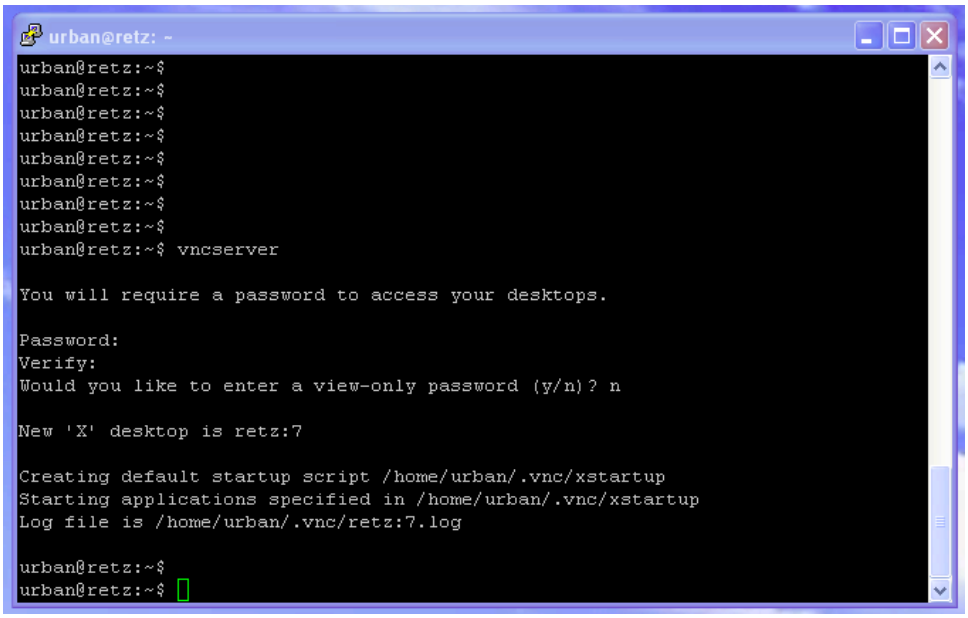

Figure 4. Configure your vncserver.

When your VNC server is started on retz you can log out from retz.

Note again, you will typically only start a vncserver once. The server will run in the background until you stop it.

Starting a VNC session

To use VNC on your PC start VNC and give the following link:
retz.cns.ki.se:7
Where 7 is the VNC's desktop number you got above. This is shown in fig. 5 below.

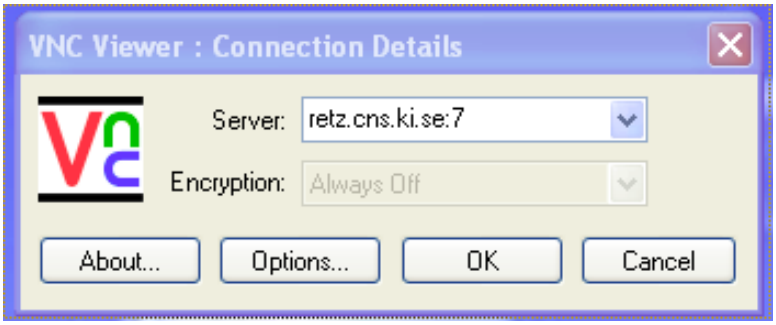

Figure 5. Connecting to retz with VNC with a vncserver window number.

Do also give your password that you gave when you started your vncserver.

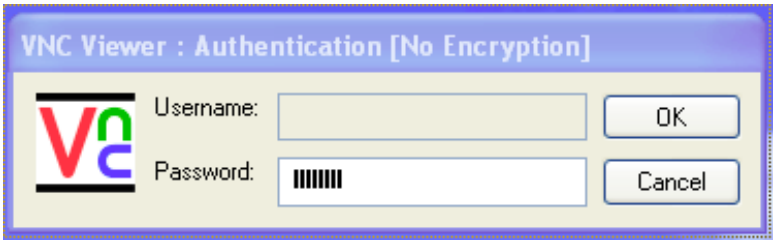

Figure 6. Give the password you configured when you started the vncserver and click OK.

You should now get a VNC window with retz desktop as shown in Fig. 7 below.

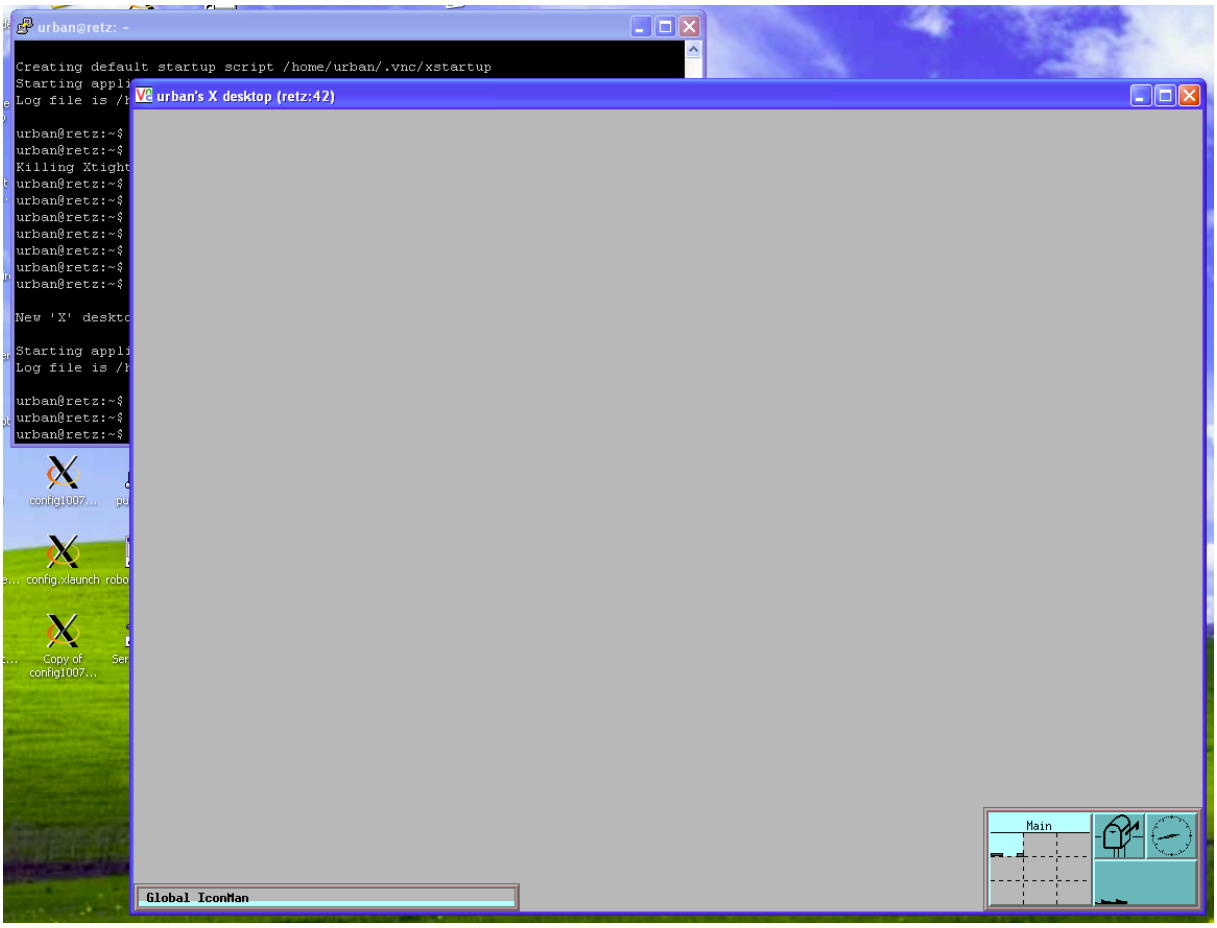

Figure 7. VNC destop of the retz server.

In the VNC window, clik on the desktop and start an Xterminal as shown in Fig. 8 below.

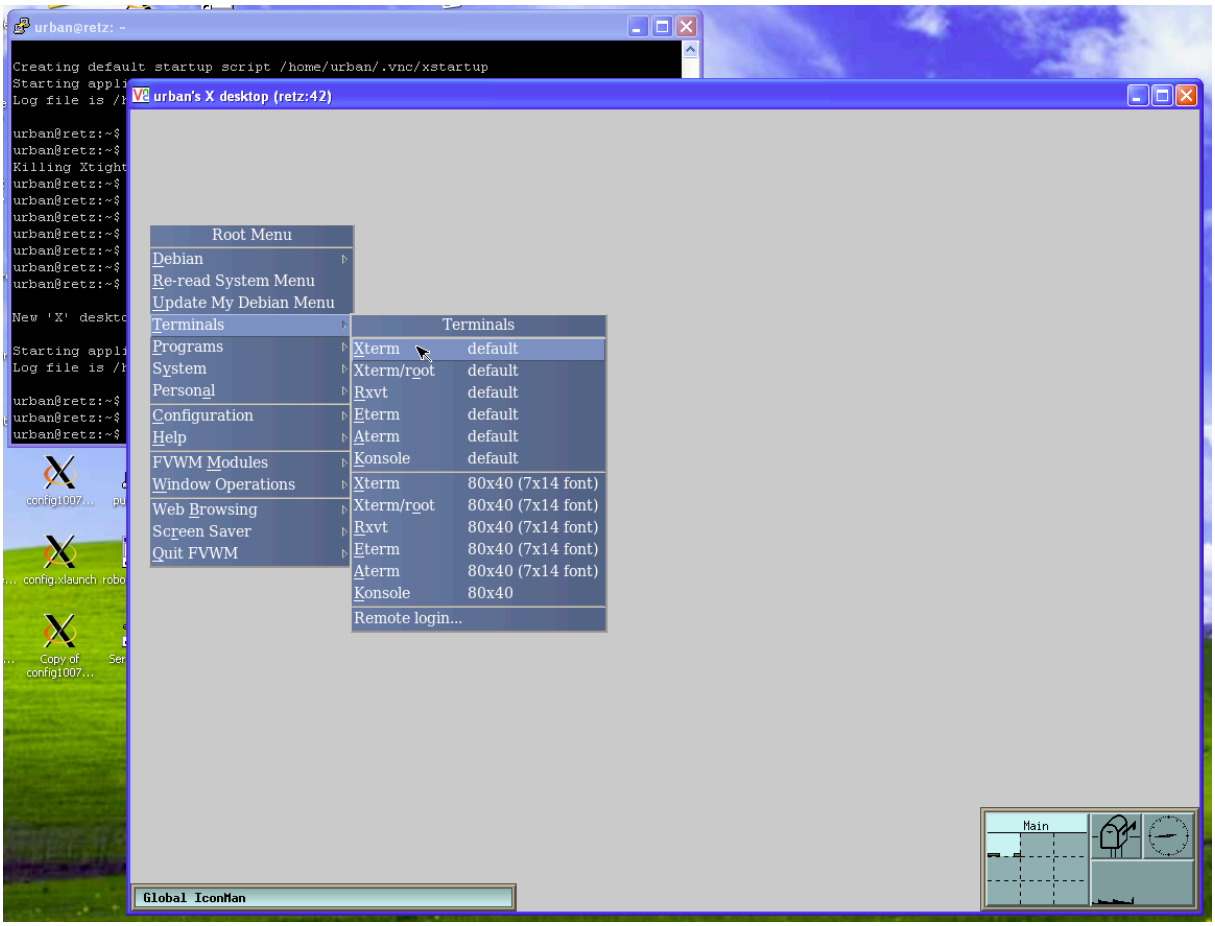

Figure 8. Starting an Xterminal on retz.

You should get a terminal window. In the window, start matlab by typing matlab as shown in Fig. 9 below.

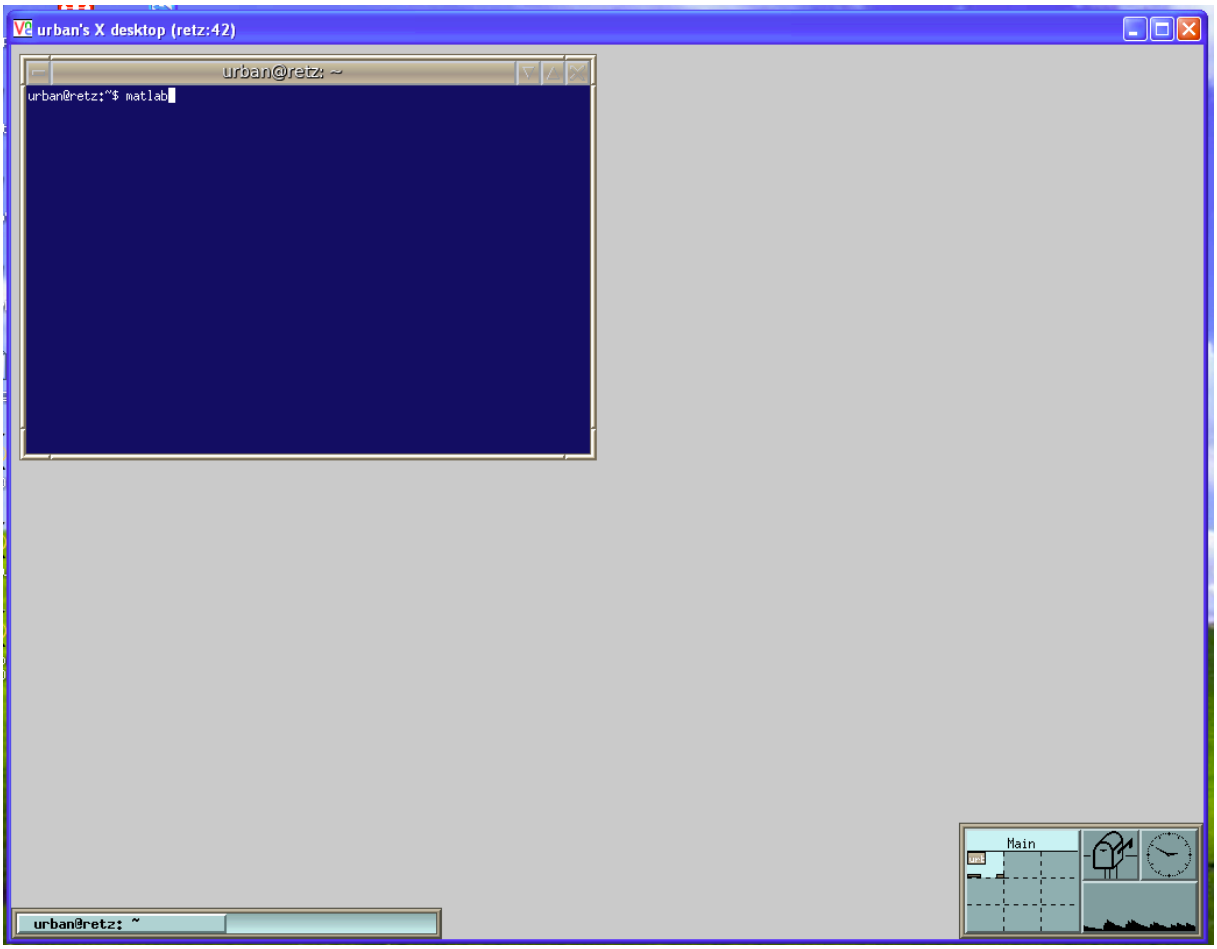

Figure 9. Starting a matlab session on retz.

The Fig. 10 below shows a matlab session running.

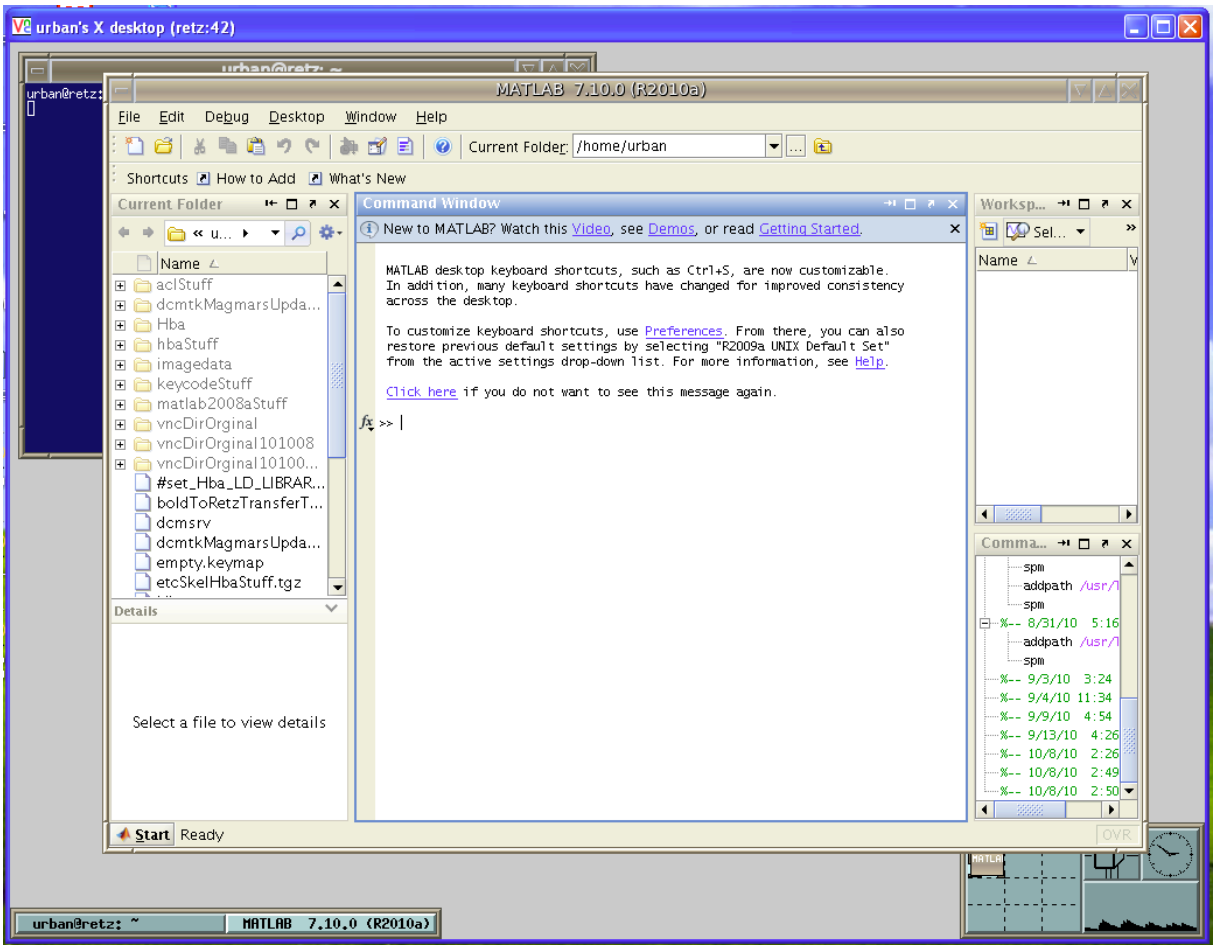

Figure 10. A matlab session on retz.

To start SPM5 type the following to set the search path for SPM5:
Addpath('/usr/local/spm5')

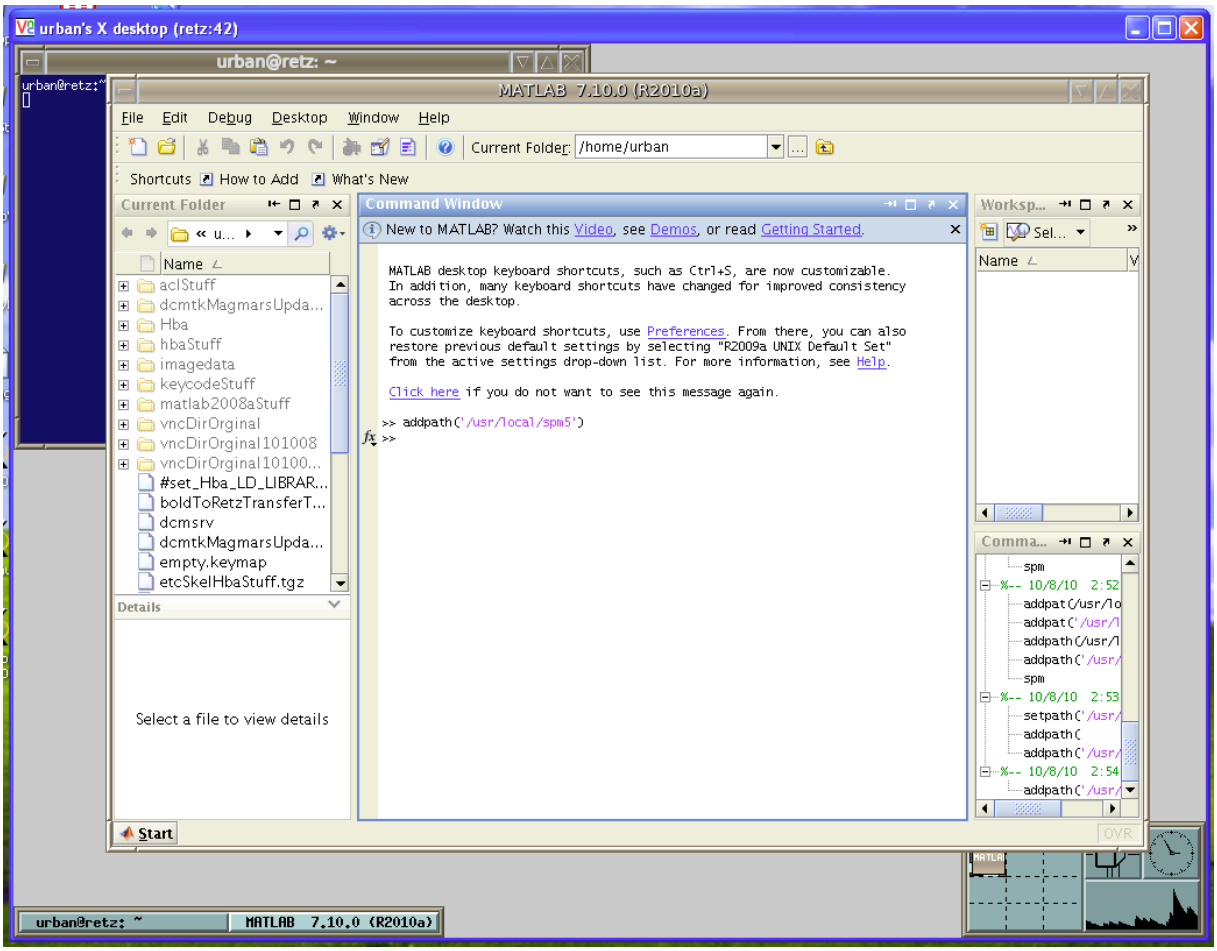

Figure 11. Setting the search path for SPM5.

Start SPM by typing spm in matlabs window as shown below.

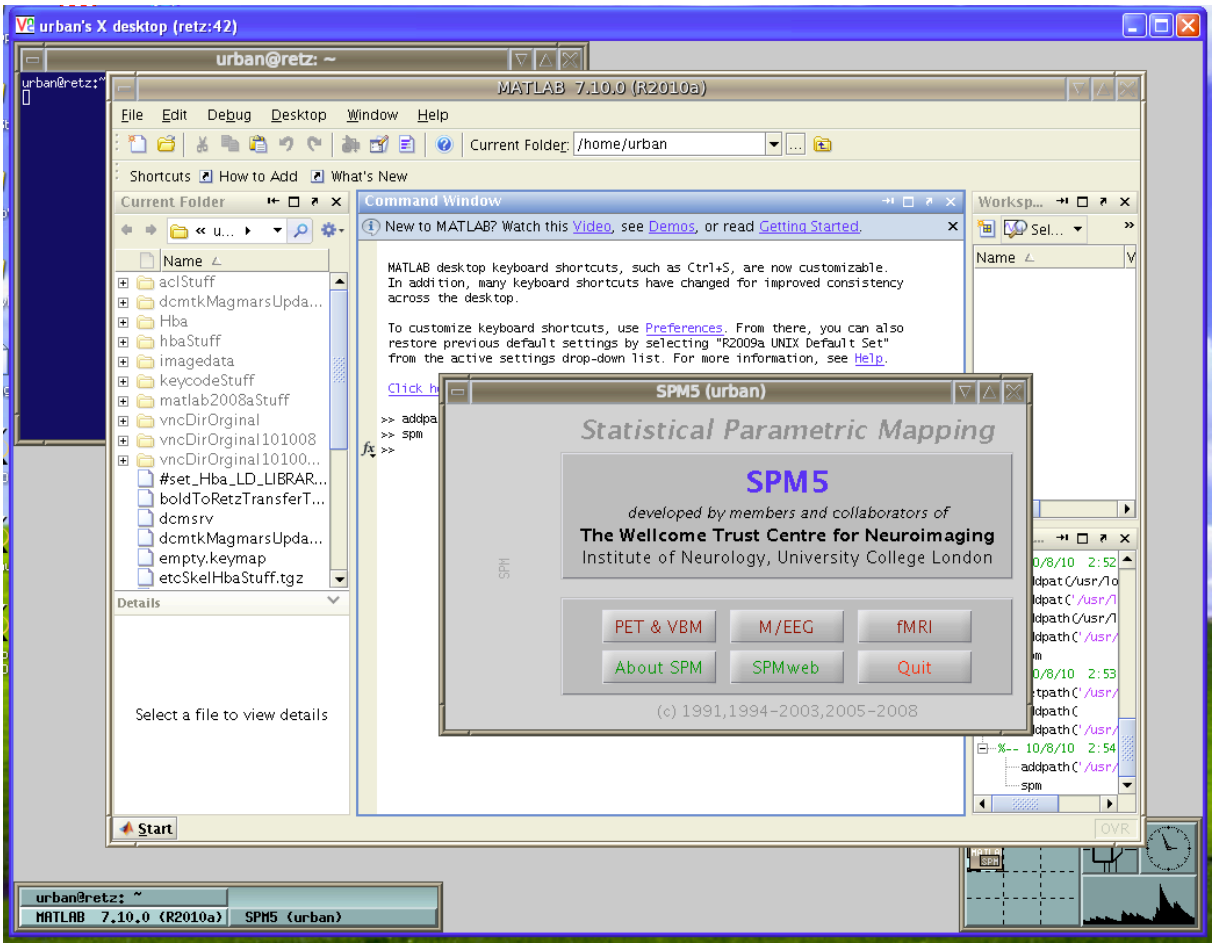

Figure 12. Starting SPM5.

Note again, in order to access the retz server you have to start and use KI's VPN.