

Introduction to LUK

- LUK - lean micro kernel
- aim of this section:
 - understand more about the development host you will be using to build LUK
 - go to the GNU/Linux laboratory and put this lecture into practice by implementing a small utility in C

Guide to using GNU/Linux

- the machines in our laboratories have the ability to run Windows or GNU/Linux
 - these machines default to running Windows
- if you see Windows running and you want to use GNU/Linux
 - please reboot Windows gracefully
 - watch it reboot

Guide to using GNU/Linux

- after shutting down Windows wait for the syslinux prompt
 - then cursor down to Linux and press return
 - you must catch this within 10 seconds or it will automatically boot into Windows
- wait 15 seconds and the graphical login screen should appear

Guide to using GNU/Linux

- at the graphical login prompt type in your user name and password
- your first task should be to give yourself a sensible password, by starting a gnome terminal and running the program

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Guide to using GNU/Linux

- you need to download the [microkernel](http://floppsie.comp.glam.ac.uk/download/luk/student-luk-1.0.8.tar.gz) (`http://floppsie.comp.glam.ac.uk/download/luk/student-luk-1.0.8.tar.gz`)
- please read the luk documentation ([pdf](#) `<./luk.pdf>` | [html](#) `<./luk/luk.html>`) and complete the lab exercises: hello and debug

Simple editing commands

- there are many editors available under GNU/Linux
- one popular editor is emacs
- use the menu, however 4 extra useful commands are:

Functionality	Keys to be pressed
split screen	<code>^x2</code>
full screen	<code>^x1</code>
other window	<code>^xo</code>
find next syntax error	<code>^x~</code>

- Where `^c` means press `control C` and `^x` means press `control x`.

Compiling and Linking

- if your program fails to compile the compiler will generate an error message indicating the file, line number and why it failed
 - if you are compiling from within emacs (by using the pull down menu) then you can tell emacs to go to the next error by typing `^x'`