

Computer Networks and Operating Systems



Welcome to UQC109S2



Computer Networks & Operating Systems

Who, What, Where, Why

Module Leader : Nigel Gunton 3P16

Lab Tutors:

- John Counsell : Groups 5, 3, 7
- Graham Darke : Groups 1, 6, 8
- Nigel Gunton : Group 2
- Ian Johnson : Group 4

All labs are held in 3P27

CNOS Resources 1 :

If you copy ... ALWAYS acknowledge the source

- The Web
 - <http://www.cems.uwe.ac.uk/~ngunton>
 - <http://www.cems.uwe.ac.uk/~irjohnso>
 - search engines, learn to use them effectively

CNOS Resources 2 :

The Library

□ Books!

○ on C programming

○ on using Unix like operating systems

○ about operating systems

CNOS

Resources 3 :

Course Texts:

- Operating Systems with Linux, O’Gorman, Palgrave
- Computer Networks & Internets, Comer, Prentice Hall SE

CNOS

Resources 4 :

Worksheets :

- Do them, they hold the answers

Man Pages :

- Learn to read them
 - man -k keyword
 - man open
 - man 3 opendir

CNOS Semester 1 Wks. 9 - 12

Lab Sessions

- Introduction to C
- your environment
- using emacs
- worksheets

- ▷ Lab1 intro
- ▷ not-so-simple-hello.c
- ▷ online C test
- ▷ GVD debugger
- ▷ files on the command line
- ▷ files worksheets 1 - 3

CNOS Semester 1 Wks. 9 - 12

Lectures

- Introductory stuff
- C syntax
- C pointers & data structures, files 1.
- Filesystems continued
- A quick glance at system calls

CNOS Assignment 1

Using system calls:

- write a set of small utilities that interface with the operating system
- integrate them into a simple command line interpreter (a shell)
- value added extras

CNOS Assignment 1

- Lab time will be used to work on the assignment and example code will be made available.
 - Each stage will be demonstrated and signed off by the lab tutor during the semester.
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