EECS 10: Computational Methods in Electrical and Computer Engineering

Lecture 1

Rainer Dömer

doemer@uci.edu

The Henry Samueli School of Engineering
Electrical Engineering and Computer Science
University of California, Irvine

Lecture 1: Overview

- Introduction
  - Course overview
- Course administration
  - Course web pages
- Getting started
  - Obtain your UCInetID
  - Obtain an account on the EECS servers
  - Log into the server
  - Work in the Unix system environment

Introduction

- Course Contents
    - Introduction to computers
    - Introduction to structured programming
    - Binary data representation
    - Hands-on experience
        - High-level structured programming language
    - Introduction to algorithm efficiency
    - Applications of structured programming
    - Solving engineering problems

Course Administration

- Course web pages online at
  http://eee.uci.edu/06f/18010/
    - Instructor information
    - Course description and contents
    - Course policies and resources
    - Course schedule
    - Homework assignments
    - Course communication
        - Noteboard   (announcements and technical discussion)
        - Email   (administrative issues)

Getting Started

- Obtain your UCInetID
  - Your unique ID at UCI
  - Activation online at NACS web pages:

    `http://activate.uci.edu/activate/menu.html`

- Obtain an account on the EECS servers
  - Your working account in EECS
  - Activation online at EECS web pages:

    `https://newport.eecs.uci.edu/account.py`

EECS10: Computational Methods in ECE, Lecture 1   (c) 2006 R. Doemer   5

Getting Started

- Log into the server
  - Use a terminal with SSH protocol (secure shell)
  - Connect to an EECS server
    - `malibu.eecs.uci.edu`
    - `vivian.eecs.uci.edu`
    - `newport.eecs.uci.edu`
  - Authorize yourself with user name and password
- Work in the Unix system environment
  - Unix shell prints command prompt, awaiting input
  - Type in system commands
    `echo`, `date`, `ls`, `cat`, `man`, `more`,
    `pwd`, `mkdir`, `cd`, `cp`, `mv`, `rm`, `rmdir`
  - Refer to manual pages for help on commands

EECS10: Computational Methods in ECE, Lecture 1   (c) 2006 R. Doemer   6