

**UNIVERSITY OF GLAMORGAN**  
**Assessment Cover Sheet and Feedback Form**  
**2013/14**

<b>Module Code:</b> CS2S563	<b>Module Title:</b> Operating Systems	<b>Lecturer:</b> Gaius Mulley
<b>Assignment no:</b> 1	<b>No of pages:</b>	<b>Maximum word count:</b> 1500

**Assignment Title:** Scheduling, Memory and a Man Page  
 Tasks outlined on page 2

## SECTION A: RECORD OF SUBMISSION

### Record of Submission and Plagiarism Declaration

I declare that this assignment is my own work and that the sources of information and material I have used (including the internet) have been fully identified and properly acknowledged as required in the referencing guidelines provided.

### Fit to Sit Policy

The University operates a Fit to Sit policy whereby all students, in submitting or presenting themselves for any assessment, are declaring that they are fit to sit the assessment. Students cannot subsequently claim that their performance in that assessment was affected by extenuating circumstances.

You are required to acknowledge that you have read the above statement by writing your student enrolment number here:

### Details of Submission

Note that all work handed in after the submission date and within 5 working days will be capped at 40%. No marks will be awarded if the assignment is submitted after the late submission date unless mitigating circumstances are applied for and accepted.

- IT IS YOUR RESPONSIBILITY TO KEEP A RECORD OF ALL WORK SUBMITTED.
- An electronic copy of your work must be submitted via the mechanism described inside.

**Mitigating Circumstances:** if there are any exceptional circumstances which may have affected your ability to undertake or submit this assignment, make sure you contact the Faculty Advice Shop on 01443 482540 (G221).

## Assessment Title: Scheduling, Memory and a Man Page

There are three *main* components to this coursework: the first is to complete the process scheduling question, the second to complete the memory management question and the third is to write a manual page for the command line tool `mrunch`.

### Step 1

You will need to download your unique process and memory management questions by visiting <http://mcgreg.comp.glam.ac.uk/oscw.html> and typing in your enrolment number and typing *no* to the question asking whether you want a practice question. Now you need to press **submit**. The process and memory questions will be emailed to your university email account and they will be unique. You can say *yes* to obtain a practice question and this will be used in tutorials as a guide to the coursework.

### Step 2

Read and answer the questions emailed to you.

### Step 3

Place your answers to the process scheduling and memory management questions into a file on the university GNU/Linux filesystem. This file must be in the following location and it must be stored in plain text (ascii). Hint use the program `gedit` to save the file. The answers to your unique question must be saved in a file under your GNU/Linux account in `$HOME/CS2S563/answers.txt`. Both the directory and any files inside it must have no group access and also no other user access. You can alter the file and directory permissions by the command line program `chmod` and check the file and directory by using the command line program `ls`.

You should research and find out how to use the utilities to perform the above changes. You should save the practice question to a file `$HOME/CS2S563/practice.txt`.

### Step 4

You are required to write a manual page for the command line program `mrunch` which you will have previously explored during tutorials. Writing a manual page is often a task required by new recruits in industry. `mrunch` is a multiprocessor run facility which currently has no documentation in man page format. There is documentation for `mrunch` in html under the headings [running the csn](http://floppsie.comp.glam.ac.uk/csn/csn.html#SEC8) (<http://floppsie.comp.glam.ac.uk/csn/csn.html#SEC8>), `mrunch` and `mrunch.ebnf`. You should also consult your tutorial sheet which introduced you to `mrunch`. There is some sound manual page creation advice found at these locations (<http://liw.fi/manpages>) and ([http://www.schweikhardt.net/man\\_page\\_howto.html](http://www.schweikhardt.net/man_page_howto.html))

Your manual page must also be saved in the directory `$HOME/CS2S563` and the filename must be `mrunch.X` where `X` is the appropriate extension for the manual page. This file must also have no group or other user access to it.

There will be extensive guidance given during tutorial/laboratory times throughout the duration of the coursework. The word count limit for the manual page is 1364 words (the word count does not include example code or command line examples enclosed using the appropriate manual page markup tags).

## Section B: Marking & Assessment

The assignment will be marked out of 100%

The assignment contributes to 50% of the total module marks

This assignment is non bonded

It is estimated that you

should spend approximately

50 hours on this

coursework

Date Set: 04 11 2019

Submission Date: 24 01 2020

Feedback Date: 17 02 2020

Learning Outcomes		
This assignment addresses the following learning outcomes of the module:		
Demonstrate a theoretical and practical understanding of the key components of an operating system.		
Hours of Work	Number of Hours	
1. Number of hours of work that this assignment should take:	50	
2. Please indicate the number of hours actually taken:		
Marking Scheme	Marks Available	Marks Awarded
Scheduling question	20	
Memory question	20	
Writing a man page for mrun	50	
Correct file permissions and manual page file name	10	

## ASSESSMENT CRITERIA

Performance Level	Criteria
Fail (<40%)	A fail grade will be awarded for an answer which contains major errors and shows little understanding of the issues involved
Third (40%-49%)	A pass grade will be awarded for an answer which addresses the majority of points with few errors or omissions.
2:2 (50%-59%)	An average grade will be awarded for answers which contain no major errors or omissions.
2:1 (60%-69%)	A higher mark can be achieved if the work contains no major errors and also contains an analytical answer.
First (70%+)	A high grade will be awarded for work which includes the earlier criteria and contains a high quality analysis of issues from a range of source materials and makes some original contribution on the subject.

## Section C: Markers Feedback

Lecturer's comments:

### Areas to concentrate on next time:

Report structure

Research

Content

Team work

Referencing

Presentation

**Lecturer's signature:**

**Date:**

**Mark awarded:**

**All marks are subject to confirmation by the Board of Examiners**



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**2020**

**INTERNAL MARKING MODERATION FORM**

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**COURSEWORK DETAILS**

**Module Code:** CS2S563

**Module Title:** Operating Systems

**Coursework Title:** Scheduling, Memory and a Man Page

**Date of Issue:** 04 11 2019

**Submission Date:** 24 01 2020

**Module Leader/Lecturer:** Gaius Mulley/Gaius Mulley

**Percentage contribution to final mark:** 50 %

**MODERATORS COMMENTS**

**Checklist:** Conformity with standard frontsheet (Yes)

Student instructions including outline marks per section (Yes)

Appropriate marking schemes (Yes)

Level/Academic standard of work (Yes)

Module outcomes are being assessed (Yes)

Appropriate time to complete (Yes)

**General Comments:**

Coursework looks to be challenging and of an appropriate standard.

**Internal Moderator:** Colin Morris

**Signature of Moderator:**

**Date:** 20 08 2019

**Response and Action to Moderators Comments:**

Thank you

**Signature of examiner:** Gaius Mulley

**Date:** 20 08 2019

**Final Signature of Internal Moderator:**

**Date:** 20 08 2019



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**EXTERNAL EXAMINER COURSEWORK MODERATION FORM**

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**Module Leader/Lecturer:** Gaius Mulley/Gaius Mulley

**Percentage contribution to final mark:** 50 %

**EXTERNAL EXAMINER'S COMMENTS**

**Signature of External Examiner:**

**Date:**

**Response by Examiner to External Examiners Comments:**

**Signature of Examiner:**

**Date:**





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**2020**

**INTERNAL MARKING MODERATION FORM**

**Module Code:** CS2S563

**Module Title:** Operating Systems

**Module Leader:** Gaius Mulley

**Assessment:** Coursework 1 (50%)

**MODERATORS COMMENTS**

**Sampling undertaken:** Yes

**Scripts sampled:** 6

**Scripts in total:** 132

**General Comments:** Fine

**Checklist: Scripts marked to outline marks per section** (Yes)  
**Level of marking appropriate** (Yes)

**Moderator:** Colin Morris

**Signature of Moderator:**

**Date:** 17 02 2020

**Response and Action to Moderators Comments:**

ok, thank you

**Signature of Module Leader:**

**Date:** 17 02 2020

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**2020**

**EXTERNAL MARKING MODERATION FORM**

**EXTERNAL EXAMINER'S COMMENTS**

**Examiner:**

**Signature of Examiner:**

**Date:**