

University of Glamorgan - Prifysgol Morgannwg
Department of Computer Studies - Adran Astudiaethau Cyfrifiadurol

Coursework Description

Course/Scheme

Module

Coursework Title

Date Set

Date for Submission

Date Marked Work Will Be Returned

Submission Instructions

Work Will Be Marked Out Of Absolute Value of Work

This Work Should Take About hours

No marks will be awarded to work submitted after the above submission date.

Outline Description & Objectives

See attached sheet

Deliverables & Marking Scheme

See attached sheet

*University of Glamorgan - Prifysgol Morgannwg
School of Computing - Ysgol Cyfrifiadureg*

Coursework Description

1. Administrative Details

Scheme	Computing degree scheme, BTEC degree scheme		
Module	Code SY3S01	Name	OS
Coursework Title	Referral coursework: ADA IPC		
Lecturer/s	Gaius Mulley		
Date Set	-- 2005	Submission Date	31 8 2005
Date Marked Work Will Be Returned	-- 2005		
Submission Instructions	As per letter		
Work Will Be Marked out of	100	Contribution to subject mark (%)	50
This work should take about	30	Hours	

No marks will be awarded to work submitted after the above submission date.

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2. Declaration

Plagiarism

You are reminded that you should not submit any work, which is not the result of your own efforts unless proper attribution is given for any referenced material. Specifically, unless the work you are submitting is a group exercise, the work you submit should be your own work and not the result of collaboration with others or the copying (however achieved) of the work of others. Please enter your enrolment number below to indicate that you understand the University regulations regarding plagiarism and that nothing in this submission is in contravention of the regulations.

Enrolment Number	Course

3. Student Feedback

Deliverable	Mark Available	Mark Awarded (%)
ADA microkernel design	50	
rendez-vous vs p/v	50	
Total	100	

Absolute Value of Work Submitted

Assessor's Coments on Work Submitted

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4. Learning Outcomes

Learning Outcomes
<p>This assessment will address your ability to:</p> <p>(1) Understand the structure and facilities of a modern OS</p> <p>(2) To make effective use of the programmer interface.</p>

5. Assessment Criteria

Performance Level	Criteria
40/100 Third	A pass grade will be awarded for an answer which addresses the majority of points with few errors or omissions.
60/100 2:1/2:2	An average grade will be awarded for answers which contain no major errors or omissions. Whereas analytical work will yield a higher mark.
70+/100 First	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.

Referral Coursework: ADA IPC

In the middle 1980's the programming language ADA was promoted as the successor to Modula-2 and as the language for the all Department of Defence (USA) contracts.

Your task is to produce a report (not more than 3000 words) in which you reexamine the language ADA. You should examine how effective ADA would be in creating a microkernel. Outline the features which are lacking in ADA for such a project and also those features which neatly map onto a microkernel.

Secondly you must examine the synchronisation mechanism (rendez-vous) which is promoted by ADA and contrast this to the Dijkstra's (P/V) Wait and Signal mechanism which we covered in class.

Assignment type

This assignment must be your own work. You are encouraged to read around the subject and use the Internet.

You must cite all references.