## **Department of Computer Science**

## **Western Connecticut State University**

## **CS 450 Operating Systems, Fall 2009**

## **Assignment 2**

## 

**Due: Tuesday, December, 7th 2009, Time: 12:40 pm**

**Please, register your selection before November, 18th 2009**

Write a short report/essay of about 1000 words about one of the following Operating Systems:

1. Chorus Operating System
2. XDS 940 Operating System
3. CP/M Operating System
4. OS/2
5. SVR4
6. MULTICS Operating System
7. THE Operating System
8. ATLAS Operating System
9. RC4000 Operating System
10. CTSS Operating System
11. MCP Operating System
12. Tenex Operating System
13. TOPS-20 Operating System
14. MSDOS
15. RSX Operating System
16. SCOPE Operating System
17. MVS Operating System
18. CMS Operating System
19. OSF/1 Operating System
20. VM Operating System
21. TSS/360 Operating System
22. XENIX Operating System
23. Mach Operating System
24. Ultrix Operating System
25. AIX Operating System
26. Targon/32 OS
27. PLUS System
28. Munin System
29. Medusa Operating System
30. Sequoia Operating System
31. Amoeba
32. Sun OS

**This is an individual assignment.** No collaboration is permitted for assessment items. All submitted materials must be a result of **your own work.**

Your essay must cover the following:

* + OS history
  + Design principles. How it handles basic OS functions.
  + System components/structure
  + Process management. Multiprogramming support
  + Scheduling and synchronization
  + Memory management. Virtual memory
  + File System
  + Input and Output
  + Inter process communication and networking
  + Security and protection
  + Future perspective
  + Problems with the OS
  + Conclusion

#### For research, you will find useful material in the library and/or on the Internet

### Useful Books

1. Nutt G. Operating Systems. Third Edition, Addison Wesley, 2004
2. Tanenbaum A. S., Modern Operating Systems, Prentice Hall, 2001
3. Crowley C., Operating Systems, Irwin, 1997
4. Tanenbaum A. S., Operating Systems, Design and Implementation, Prentice Hall, 1997
5. Tanenbaum A. S., A.S. Woodhull, Operating Systems Design and Implementation, Second Edition, Prentice Hall, 1997
6. Silberschatz A., Operating Systems Concepts, John Wiley&Son, 2005
7. Silberschatz A., Applied Operating Systems Concepts, John Wiley&Son, 2000
8. Garrido M. J., R. Schlesinger, Principals of Modern Operating Systems, Jones and Bartlett Publishers, 2008

##### Marking Key

The following assessment criteria will be used to mark your work:

1. **Meeting the aims (10%)**

You should correctly address your essay title, include bibliography and hand the work on time

1. **Presentation (20%)**

The essay should be well structured with appropriate sections and forming a coherent structure so that there is introduction, a number of points made clearly in the main argument, and a conclusion.

1. **Background Research (20%)**

You should show evidence that you have read and understood relevant associated literature, that is properly referenced both in the text and at the end, and that you have appropriately synthesised information from several sources.

1. **Content (50%)**

Your work should be factually correct and should contain evidence of research with citing of who used the OS and when. All the sources from which the information has been obtained should be cited.

4 % per day will be deducted for any late assignment. An assignment that is four days late will not be accepted.

###### *GOOD LUCK*