EECE 5129/6029: Operating Systems

Fall 2019

Project Assignment

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I. Introduction

- The project assignment should be completed *individually*.
- You are required to study a research topic on operating systems and *write a literature survey as your project report*.
- There is no page limitation on your project report.
- It is expected that you should refer to *at least 5 different journal/conference articles* in your report.
- The technologies in your report should not be identical as the descriptions in our textbook or lecture slides.
- You could choose one of the following topics or propose a topic that is not listed here. The proposed topic should be relevant to operating systems technologies.

Sample research topics:

1. Concurrent programming

2. CPU scheduling

3. Memory management

4. Storage management

5. Embedded systems design

6. Distributed/networked operating systems

7. System security and protection

Hints:

You can search for papers from top conferences in computer systems, such as SOSP (ACM Symposium on Operating Systems Principles), OSDI (USENIX Symposium on Operating

Systems Design and Implementation), DSN (IEEE International Conference on Dependable Systems and Networks), etc. You can also find lots of related papers from Google Scholar or IEEE and ACM databases through the UC library website.

Grading:

Your survey paper will be graded based on the clarity of writing and the breadth and depth of your understanding of a research topic.

II. Timeline and deliverables

1. Please submit a *proposal* which includes your project topics. If you are proposing to study a research topic which is not listed above, give a brief description of your proposed topic within one page. **Deadline: Nov. 8, 2019 (Friday)**.

2. **Deadline for submitting your final** *project report***: Dec. 8, 2019 (Sunday).**