

IT 600 Module Eight Short Paper Guidelines and Rubric

Overview: During the implementation of its new and improved back office operating system, Top Secret, Inc. (TSI) finds that the TSI OS lacks mechanisms for the ordered acquisition of synchronization objects. The result is that its web servers are periodically locking up. Systems administrators are perplexed because the systems show all processes are active using the [ps -ef] command except for the web server process, which appears to be waiting in a call to pthread_mutex_lock(). When they reboot the servers, the problem disappears until the servers get busy and the lock-up occurs again. The business impact of this problem is that TSI customers are unable to access the website to make purchases during peak periods.

Prompt: Write a short paper that recommends a deadlock avoidance approach most suitable for the TSI web server application that is not using an ordered acquisition of mutexes.

Guidelines for Submission: Your paper must be submitted as a two-page Microsoft Word document (not including title and references pages) with double spacing, 12-point Times New Roman font, and one-inch margins. Your paper must cite at least two technically credible sources in APA format.

Critical Elements	Proficient (100%)	Needs Improvement (70%)	Not Evident (0%)	Value
Recommendation	Recommends deadlock avoidance approach most suitable for the TSI web server application that is not using an ordered acquisition of mutexes	Does not offer most suitable recommendation for deadlock avoidance approach for the TSI web server application that is not using an ordered acquisition of mutexes	Does not recommend a deadlock avoidance approach for the TSI web server application that is not using an ordered acquisition of mutexes	80
Writing Mechanics	Submission has no major errors related to citations, grammar, spelling, syntax, or organization	Submission has a few errors related to citations, grammar, spelling, syntax, or organization	Submission has major errors related to citations, grammar, spelling, syntax, or organization that negatively impact readability and articulation of main ideas	10
Guidelines for Submission	Guidelines for submission are met	Some of the guidelines for submission are met	Most of the guidelines for submission are not met	10
Earned Total				100%