

IT 600 Module Three Journal Guidelines and Rubric

Overview: In this assignment, you will analyze the process states for your preferred operating system. This analysis will prepare you for the process management requirements of your final project.

Prompt: To complete the assignment, you will need to:

1. Research and then describe in your journal the scheduling algorithm used by your operating system kernel by default. Next, go to the command shell and execute one of the following commands based upon your operating system of choice:
 - Windows: Execute the command ***tasklist /v***
 - Linux: Execute the command ***ps -efc***
 - Max OS X: Execute the command ***ps -efc***

2. In the second part of your journal assignment:
 - a. Describe how the state values (such as “running” or “sleeping”) reported by your operating system relate to the status of threads in *Round Robin*, *First-Come, First-Serve*, and *Priority-Based* scheduling algorithms identified in the course textbook.
 - b. Make note of any special thread/process reporting data your operating system provides and how it relates to process scheduling. Remember, support for a specific scheduling algorithm is determined by the environment in which your operating system is deployed.

For your final project, you will have to consider whether your operating system will be supporting a server application that runs as a daemon in the background, a highly interactive workstation that must respond immediately, or a sensor system that must respond to hard real-time requirements. This journal assignment will aid you in the completion of this section of your final project.

Guidelines for Submission: Submit assignment as a Word document with double spacing, 12-point Times New Roman font, and one-inch margins.

| Critical Elements | Proficient (100%) | Not Evident (0%) | Value |
|--|--|--|--------------|
| Description of the Scheduling Algorithm | Accurately describes the scheduling algorithm used by operating system kernel by default | Does not accurately describe the scheduling algorithm used by operating system kernel by default | 30 |

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| Describe the State Values | Describes the state values and their relationship to the status of threads in Round Robin, First-Come, First-Serve, and Priority-Based scheduling algorithms identified in the course textbook | Does not describe the state values and their relationship to the status of threads in Round Robin, First-Come, First-Serve, and Priority-Based scheduling algorithms identified in the course textbook | 30 |
| Information on Special Thread/Process Reporting Data | Identifies special thread/process reporting data the operating system provides and how it relates to process scheduling | Does not identify special thread/process reporting data the operating system provides and how it relates to process scheduling | 20 |
| Articulation of Response | Submission has no major errors related to citations, grammar, spelling, syntax, or organization | Submission has critical errors related to citations, grammar, spelling, syntax, or organization that prevent understanding of ideas | 20 |
| Earned Total | | | 100% |