Southern New Hampshire University

IT 600 Module Two Journal Guidelines and Rubric

Overview: There are five journal assignments in this course, many of which have a hands-on element to them in that they will ask you to perform functions or commands on your computer. After completing the hands-on requirements, you will write a journal assignment in which you will answer questions related to what you did.

This assignment will prepare you to conduct the organizational profile needed for your final project. You will apply the operating system concepts you read about in the course textbook to the real world. Windows, Linux, and OS X provide command line utilities that display system architecture information as well as how the operating system is configured to interface with hardware.

The goal is to leverage the operating system on the computer you are using for this course to report on its architecture. You will use knowledge gained from running the commands to complete the technical description portion of the final project.

Prompt: For this assignment, you will need to:

1) Execute one of the commands below in the command shell that comes with your operating system. For example, if you are using Windows, you will run the **systeminfo** command. Here are the optional commands:

   - Windows: Execute the command **systeminfo**
   - Linux: Execute the command **cat /proc/cpuinfo**
   - Max OS X: Execute the command **system_profiler SPHardwareDataType**

2) Review the output from a command above and write a journal assignment that describes the following critical elements:

   - the name and description of the processor
   - the number of cores
   - the amount of memory
   - any particular information you find important and why

For example, Windows displays the installation date and when the system was last booted. Linux displays the number of *bogomips* (unreliable CPU performance metric) for each processor or core. Of particularly interest from a historical perspective, Mac OS X will likely display an Intel processor running on Apple hardware. In your journal assignment, explain at least one system call from the course textbook that the operating system executed in order to create the output you reviewed.

Hint: Each of the commands above creates a new process, so Windows will leverage a WIN32 system call from Section 1.6.5 and Linux/OS X will execute a variant of one of the system calls listed in Figure 1-18.

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

Rubric

Critical Element	Proficient (100%)	Not Evident (0%)	Value
Name and Description of Processor	Includes name and description of the processor	Does not include name and description of the processor	40
Number of cores	Number of cores is correct	Number of cores is not correct or is not provided	10
Amount of Memory	The amount of memory is provided	The amount of memory is not provided	10
Additional Information	Additional information is provided	Additional information is not provided	30
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	10
		Earned Total	100%