CSI3344 Distributed Systems

Workshop 05

Processes

Q1. In a hierarchical location service with a depth of *k*, how many location records need to be updated at most when a mobile entity changes its location?

Q2. In this problem you are to compare reading a file using a single-threaded file server and a multithreaded server. It takes 15 msec to get a request for work, dispatch it, and do the rest of the necessary processing, assuming that the data needed are in a cache in main memory. If a disk operation is needed, as in the case one-third of the time, an additional 75 msec is required, during which time the thread sleeps. How many requests/sec can the server handle if it is single threaded? If it is multithreaded? (Note: 1 sec = 1000 msec)

Naming

Q3. Give some examples of true identifiers.

Q4. Is an identifier allowed to contain information on the entity it refers to?

END OF THE WORKSHOP QUESTIONS