

1995 Paper 11 Question 7

Operating System Foundations

Consider the operation of a scheduler in a system where there are system level and user level processes. User processes may be IO bound or CPU bound and may have user controlled (negative) priority.

Describe the data structures that the scheduler might use, including parts of process descriptors that the scheduler would operate on. [10 marks]

Describe in detail the circumstances under which the scheduler would be entered and for each different circumstance outline a scheduling algorithm that might be used. [10 marks]