

1997 Paper 1 Question 11

Operating Systems

Why does the widespread use of graphical user interfaces (GUIs) make explicit the need for the underlying operating system to support concurrent processes and threads? [2 marks]

Outline the data structures that might be held by an operating system to support the entities that are scheduled (processes or threads). [8 marks]

Describe *one* scheduling algorithm and explain how it would be implemented, based on the data structures you have described above. [7 marks]

What are the implications for scheduling of the need to support new media types such as voice and video? [3 marks]