Q1 Fundamentals
10 Points

Q1.1
3 Points

An operating system hides complicated details of the computer from its users and makes it much easier to use through well-defined interfaces. Describe and discuss examples of OS user interfaces.

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Q1.2 RAID
2 Points

Implementing a RAID system is a good way to improve disk performance and/or reliability. Describe two advantages that RAID X implementation has over a RAID Y implementation.

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Q1.3 Long Tail
5 Points

Consider an application job composed with many tasks which may be executed in parallel over a large number of servers. However, the job is often slowed down due to the long tail

However, the job is often slowed down due to the long-tail problem, i.e. a small amount of tasks make no or very slow progress. A mitigation strategy for shortening the tail is task cloning. Explain why task cloning is not a cost-effective solution? Outline two alternative methods and discuss their relative advantages and limitations.

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22/23 XJCO Operating Systems (Testing the System)

● UNGRADED

STUDENT

Pangyu Li

TOTAL POINTS

- / 10 pts

QUESTION 1

Fundamentals   10 pts

1.1   (no title)   3 pts

1.2   RAID   2 pts

1.3   Long Tail   5 pts