

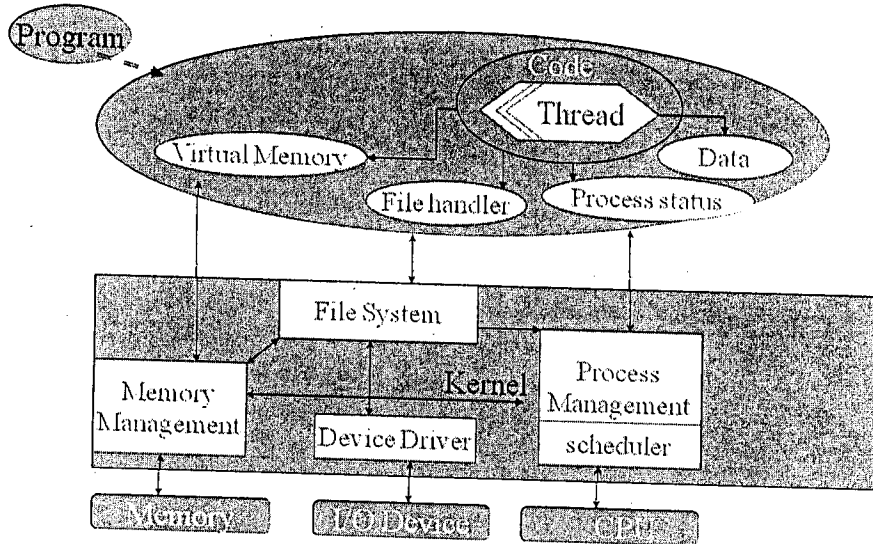
國立中央大學100學年度碩士班考試入學試題卷

所別：網路學習科技研究所碩士班 不分組(一般生) 科目：作業系統 共 2 頁 第 1 頁

本科考試禁用計算器

*請在試卷答案卷(卡)內作答

1. Please describe the following diagram from the "Program" block when it was executed. (20%)



參考用

2. Redundant Array of Independent Disks(RAID) can provide disk spanning by interleaving all connected drives into one single volume. And it can increase disk access speed by breaking data into several blocks when **reading** or **writing** to several drives in parallel and provides **fault-tolerance** by mirroring or parity-checking operations. Please accomplish filling the blanks of the tables below: (20%)

RAID Level	Description	Available Capacity	Data Reliability	Access Performance-Sequential	Access Performance-Random
NRAID	Non-RAID	Total		Drive	Drive
RAID 0	Disk Striping	Total			Read: High Write: Highest
RAID 1	Mirroring Plus Striping (if N>1)	50%		Read: Highest Write: Medium	Read: Medium Write: Low
RAID 3	Striping with parity on dedicated disk	N-1		Read: Highest Write: Medium	
RAID 5			Highest		

注意：背面有試題

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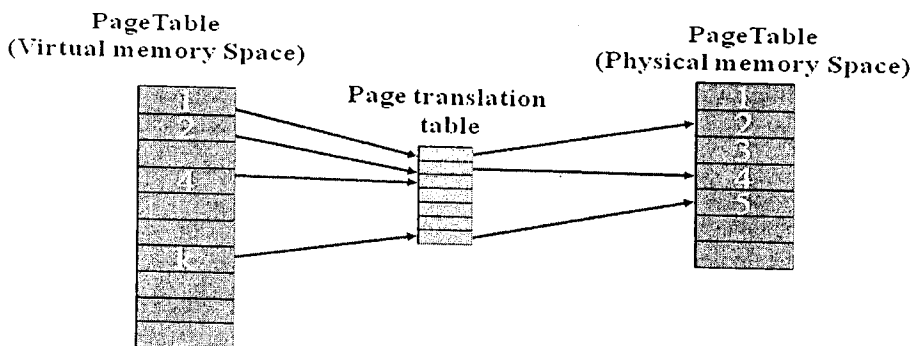
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3. What are light-weight process (LWP) and heavy-weight process, please explain the two terms (10%)? What are the differences or similarity between LWP and threads (10%)?
4. Please explain the following paging system (10%)



5. Please describe the following terminologies in details: (30%)
 - 甲、 Shortest Remaining Time First (6%)
 - 乙、 Working Set of Locality (for resources allocation) (6%)
 - 丙、 IP Version 6(6%)
 - 丁、 802.11 Ad hoc & infrastructure (6%)
 - 戊、 Dead lock of scheduling(6%)

參考用

注意：背面有試題