

1.6-8.Can overflow ever occur when values are added in two's complement notation with one value positive and the other negative 同號相加 1.9-2.Could errors have occurred in a byte from ... 當有偶數個位元錯誤

3.5-1.Give some example of poor choices for password... 姓名和日期為一般選擇易猜中 完整字可用程式跑字典的字 只含字母為有限字母構成可由程式跑

4.4.3.How does the Internet software ensure that messages are not... 將所有訊息指定一橫越計數決定訊息傳送最大次數 1.8-1.List four generic compression techniques 重複次數,次數相關,相對,字典式 3.2-1.List the components of a typical operating system and summarize the role of each in a single phrase 外殼(機器環境間做通訊),檔案管理者(協調機器次儲存體的使用),裝置驅動程式(處理周邊裝置通訊),記憶體管理者(協調機器主記憶體使用),排班程式(協調系統中正在執行的工作),時段分配程式(控制 CPU 時間的分配給各執行單元) 1.4-2.In the ASCII code what is the relationship... 大寫自低階端第六位元必為零 小寫為一 1.8-7.Identify a troubling phenomenon that is common when encoding numeric information, 編碼時會估計,估計計算時易被混合而造成錯誤,若不斷被重置且編碼,估計會複合而成無價值資料

3.1-1.Identify examples of queues. in each case,... IFO 買票有人插隊 4.1.4.Identify some relationships in society that conform to the client/server model. 郵購公司及客戶,藥劑師及客戶等 4.1.5.Identify some protocols used in society. 交通流量管制,語音電話通訊,生活禮儀 3.3-3.In a time-sharing system, how can high-priority processes be allowed to run faster than others 高優先權使其先被派遣程式選上,且給高優先權的工作單元更長的時間片段執行 4.2.4.IN what way is the structure of a mnemonic address of a computer on the Internet... 均由特定演變成通用 是,演變次序在 IP 中保留下來 3.3-4.If each time slice in a time-sharing system is 50 milliseconds and... 3.3-5.If each process uses its complete time slice in the machine in... 3.5-3.If a process in a time-sharing system could access memory cells... 工作單元可變更作業系統程式,使時段分派程式將每時段給此工作單元

4.2.5.Name three types of servers found on the Internet and ... 名字,將助憶地址轉為 IP 位址,郵件,傳收存電郵訊息,FTP,檔案傳輸 3.5-2.Processors in Intel's Pentium series use four privilege levels... 以兩位元能形成的不同位元圖樣數量是 4。如果需要更多的權限等級,設計者需要多少 3 位元以表示不同等級,而可能因而選擇共有 8 個等級。以同樣的方式,對於少於 4 的等級自然的選擇是 2 1.3-4.Sometimes, when modifying a document with a word processor 儲存空間以實體區段分配,若填滿才新增區段 1.8-4.Suppose you were part of a team designing a spacecraft that will travel to other planets and send back photographs 都不好,二者皆是有減損的壓縮圖中的細節會有遺失 3.4-1.Suppose process A and process B are sharing time... 每時段都保證有一工作單元在使用若有極需使用仍須等待 3.4-2.Suppose a two-lane road converges... 二車同時自兩端進入,都不知已迎面而來,即同時執行關鍵工作單元(進入隧道至開號) 3.4-4Suppose. we represent each process in a time-sharing system

with a dot and draw an arrow...在一個有向圖中箭號串成迴圈即發生,用以觀察死結發生與否及採取補救的方法之一

2-4.Summarize the booting procedure開機 CPU 執行啟動程式暫存在 ROM,指引 CPU 完成次儲存體傳送 OS 至主記憶體的過程,再指引 CPU 回 OS 執行

3.3-1.Summarize the difference between a program and a process 程式=工作指令的集合 process=按指令的動作

3.3-2.Summarize the steps performed by the CPU when an interrupt occurs,為一預定值,即中斷處理常式位置,so 下依執行指令是中斷處理常式中第一個指令

4.1.2.Summarize the distinction between a repeater and a bridge? 接續器將 all 訊息輸出橋接器將目的為橋接器另一邊訊息輸出

4.3.5.To what do the terms client side and server side refer?分辨是在客戶端電腦或伺服器端電腦上執行

4.5.3.Technically, the term data refers to representations of information, whereas...密碼保護=資料也同時保護 資訊加密=保護資訊

1.3-1.What advantages does a hard-disk system gain from the fact that its disks spin faster than disks in a floppy-disk system 較高讀取速率&傳送率

1.3-5.What advantages do flash drives have over the other mass storage systems introduced in this section 回應時間短不需擔心實體毀損

4.5.4.What advantage does public-key encryption have over... 知道如何被加密不足以使訊息被解密

4.2.2.What are the components of the complete Internet address of a computer?網路識別碼,主機位址

4.4.2.What are some differences between a transport layer based on the TCP protocol and...UDP 是無連接協定 無法確認訊息傳送成功與否

4.5.1.What are two common ways that malware gains access to a computer system?電郵附件,下載的軟體中,造訪網站的伺服器(間諜軟體)

1.8-5.What characteristic of the human eye does JPEG's baseline standard exploit 對色變不如對亮變靈敏度高,在不明顯犧牲畫質情況下減少顏色資訊的位元亮

1.8-6.What characteristic of the human ear does MP3 exploit 時序遮罩,頻率遮罩

1.3-6.What is a buffer 暫時存放資料的區塊

1.4-9.What are the advantages of representing images via vector techniques as opposed to bit map techniques 向量改變影像大小及單純線條繪製優,位元圖像的图片品質優

3.1-3.What is the difference between real-time processing and interactive processing 即時處理將程式執行與機器環境中的活動結合 交談處理 user&執行中程式可有互動

3.1-4.What is the difference between time-sharing and multitasking 分時=在單一處理器上作多工

3.2-2.What is the difference between application software and utility software 公用軟體執行普遍性的工作應用軟體執行特殊應用(但界限不清)

3.2-3.What is virtual memory 在主記憶體,大量儲存體間的搬移來建立額外想像空間

4.1.1.What is an open network?內部運作設計所有權屬公眾

4.1.3.What is a router?連接 2 網而成 Internet 的機器

4.2.1.What is the difference between a network identifier and a host address?網路識別碼指出網域 主機位址分辨同一網域中不同機器

4.3.1.What is a URL? What is a browser? URL=文件在 WWW 上位址 瀏覽器=助 user 存取超文件之程式

4.3.2.What is a markup language?在文件中插入解說資訊的系統

4.3.3.What is the difference between

HTML=特殊標記語言 XML=產生標記語言的標準 4.3.4.What is the purpose of each of the following...?<html>標示一個 HTML 的起點<head>標示文件標題的起點</body>標示文件本體的結束</a>標示連續到另一個文件項目的結束

4.4.1.What layers of the Internet software hierarchy are used to forward an...鏈接層將訊息傳給網路層,他會發現訊息是給另一主機,所以在訊息上另加中間目的位址並回傳給鏈接層 4.4.4.What keep a computer on the Internet from recording copies of...錯 在任何主機上程設者皆可改軟體以保存這些資料紀錄 4.5.2.What distinction is there between the types of firewalls that can be placed at a ...閘門防火牆不能過濾內容只能依其資訊做節檢體) 4.5.5.What problems are associated with legal attempt to protect...國家不同法律不同,但法律只給求助無法防止受傷害

1.3-3.Why should the data in a reservation system that is constantly being updated be stored on a magnetic disk instead of a CD or DVD 在 CD 等中須每次重寫,磁碟只需改變磁段(sector)上的資料 1.8-3.Why would GIF be better than JPEG when encoding color cartoons 彩色卡通由邊界清晰的實心彩色區塊所組且 JPEG 的顏色數量有限 4.2.6.Why is SSH considered superior to telnet?因 SSH 提供加密及身分辨識