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編號: と150 系所:工程科學系乙組

科目:系統程式

本試題是否可以使用計算機: □可使用 , ☑不可使用 (請命題老師勾選)

Explain the functions of the following terms as detail as possible: (25%)
(a) Bootstrap loader;(b) Assembler;(c) Handler;(d) File allocation table;(e) RPC

- 2. A complier is used to translate a source program created by high-level programming language into its corresponding object codes for executing by a computer.
 - (a) Give the basic scheme of a simple *one-pass* complier and explain the operations of the scheme. (10%)
 - (b) How does an interpreter work? (5%)
 - (c) What is a complier-complier? (5%)
 - (d) What is a bytecode (P-code) complier? (5%)
- A macro instruction is simply a notational convenience for the programmer to represent a commonly used group of statements in the source programming language.
 - (a) Give the fundamental functions that are common to all macro processors. (10%)
 - (b) How should a programmer decide whether to use a macro or a subroutine to accomplish a given logical function? Give an example. (10%)
 - (c) What is a keyword macro parameter? (5%)
- 4. An operating system is a program that used to manage the computer hardware. It also provides a basis for application programs and acts as an intermediary between the computer user and the computer hardware.
 - (a) List the services provided by an operating system that are designed to make it more convenient for users to use the computer system. (5%)
 - (b) A monitor type is a fundamental high-level synchronization construct used to solve the Dining-Philosophers problem. Describe how it works. (10%)
 - (c) Paging is a memory-management scheme that permits the physical address space of a process to be noncontiguous. Segmentation is also a memory management scheme that supports the separation of the user's view of memory and the actual physical memory. Explain why sharing a reentrant module is easier when segmentation is used than when pure paging is used. (10%)