

Midterm Exam - Section #4 - BIO

questions

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In the Five-State Process Model, the following represents a valid state transition

- Ready -> Blocked ☐
- New -> Blocked ☐
- Running -> Blocked ☐
- New -> Running ☐

The executive, protected subsystems and applications in a WIN2K system are structured using the _____ computing model, which is a common model for distributed computing

- cloud ☐
- Grid ☐
- client-server ☐
- P2P ☐

The Process Image element that contains the collection of attributes needed by the O/S to control a particular process is called the

- User Stack ☐
- System Stack ☐
- Process Control Block ☐
- User Data ☐

The operating system masks the details of the _____ from the application programmer

- program ☐
- software ☐
- process ☐
- hardware ☐

An operating system should be _____ in construction, allowing it greater flexibility in the evolutionary process

- single ☐
- distributed ☐
- monolithic ☐
- modular ☐

The operating system provides many types of services to end-users, :programmers and system designers, including

- Built-in system applications ☐
- Relational database capabilities with the internal file system ☐
- Built-in user applications ☐
- Error detection and response ☐

:A major problem with early serial processing systems was

- Lack of input devices ☐
- Setup time ☐
- Inability to get hardcopy output ☐
- Execution time ☐

The Process Identification, Processor State Information and the Process Control Information are the general categories that collectively make up what is referred . _____ to as the

- I/O block ☐
- file block ☐
- memory block ☐
- process control block ☐

:The principle objective of a time sharing, multiprogramming system is to

- Provide exclusive access to hardware ☐
- Maximize processor use ☐

maximize response time ☐

minimize response time ☐

The Clouds O/S implements the concept of a thread as primarily an entity that can move among address spaces which represents the _____ Thread-to-Process relationship

Many -to-Many ☐

One-to- One ☐

Many -to- One ☐

One-to-Many ☐

:The behavior of an individual process can be characterized by examining

Multiple process traces ☐

A single process trace ☐

Uni-programming ☐

The interleaving of the process traces ☐

One of the disadvantages of User-Level Threads (ULTs) compared to Kernel-Level Threads (KLTs) is

Scheduling is not application specific ☐

Thread switching does not require kernel mode privileges ☐

Scheduling is application specific ☐

When a ULT executes a system call, ☐

It is necessary to _____ the activities of various threads so they do not interfere with each other or corrupt data structures

block ☐

Not orchestrate ☐

synchronize ☐

building block ☐

:The operating system is unusual in it's role as a control mechanism, in that

It frequently relinquishes control of the system processor and must depend on the

It frequently relinquishes control of the system processor and must depend on the processor to regain control of the system ☐

It runs on a special processor, completely separated from the rest of the system ☐

It never relinquishes control of the system processor ☐

It never relinquishes control of the system co-processor ☐

The interface to an operating system is often referred to as a _____, because it separates the user from O/S details and presents the O/S simply as a collection of services

shell ☐

process ☐

monolithic ☐

modular ☐

A process that cannot execute until some event occurs is said to be in the _____ state

Running ☐

Not Wait ☐

Ready ☐

Blocked ☐

The basic form of communication between processes or threads in a _____ microkernel O/S is

messages ☐

process image ☐

process ☐

Process context ☐

The processor execution mode that user programs typically execute in is _____:referred to as

Temper mode ☐

System mode ☐

Kernel mode ☐

User mode ☐

The basic thread operation related to the change in thread state that occurs :when a thread needs to wait for an event is referred to as the

- Unblock operation ☐
- Ready operation ☐
- Block operation ☐
- Spawn operation ☐

The User Data, User Program, System Stack and Process Control Block elements ._____ collectively make up what is referred to as the

- memory image ☐
- I/O image ☐
- file image ☐
- process image ☐

The operating system's _____ refers to its inherent flexibility in permitting functional modifications to the system without interruption of services

- interruption ☐
- Distribution ☐
- Execution ☐
- ability to evolve ☐

A process switch may occur when the system encounters an interrupt condition, :such as that generated by a

- Register context ☐
- Option 1 ☐
- System-level context ☐
- User-level context ☐

The O/S control structure that the O/S uses to manage system processes is ._____ called the

- memory table ☐
- file table ☐

- ☐ I/O table
- ☐ process table

:The general role of an operating system is to

- ☐ Act as an interface between various computers
- ☐ Manage files for application programs
- ☐ Provide a set of services to system users
- ☐ Manage files for system programs

:The behavior of a processor can be characterized by examining

- ☐ The interleaving of the process traces
- ☐ A single process trace
- ☐ Multiple process traces
- ☐ Uni-programming

Most UNIX systems are _____, in that they include virtually all of the O/S functionality in a single large block of code that runs in a single process with a single address space

- ☐ shell
- ☐ modular
- ☐ monolithic
- ☐ distributed

In a Process Model that implements two suspend states, an invalid state transition is represented by

- ☐ Running -> Ready/Suspend
- ☐ Ready/Suspend -> Ready
- ☐ Ready/Suspend -> Running
- ☐ Ready -> Ready/Suspend

The basic thread operation related to the change in thread state that occurs when a thread needs to wait for an event is referred to as the

Ready operation ☐

Spawn operation ☐

Block operation ☐

Unblock operation ☐

:In the Process Based O/S

The User Process Image includes a kernel stack ☐

The User Process Image includes a user stack ☐

Major kernel functions are organized as separate functions ☐

O/S code and data are contained in the shared address space ☐

In a typical UNIX system, the element of the process image that contains the
:processor status information is the

Option 2 ☐

User-level context ☐

Register context ☐

System-level context ☐

An example of a hardware feature that is desirable in a batch-processing system
:is

Special instructions ☐

A completely accessible memory area ☐

Large clock cycles ☐

Privileged instructions ☐

Key to the success of Linux has been it's character as a free software package
:available under the auspices of the

charge Software Foundation ☐

Free Software Foundation ☐

Berkeley Software Distribution ☐

World Wide Web Consortium ☐

The basic Two-State Process Model defines two possible states for a process in
:relationship to the processor

- Running and Executing ☐
- Running and Not Running ☐
- Running and Waiting ☐
- Executing and Waiting ☐

The Process Image element that contains the modifiable part of the user space is
:called the

- System Stack ☐
- Process Control Block ☐
- User Program ☐
- User Data ☐

When the O/S creates a process at the explicit request of an existing process,
._____ the action is referred to as

- Kernel mode ☐
- process swapping ☐
- System mode ☐
- process spawning ☐

The first step in creating a new process is to assign a unique _____ to
.the new process

- Process context ☐
- process identifier ☐
- process image ☐
- process control block ☐

Relative to information protection and security in computer systems, access
:control typically refers to

- Proving that security mechanisms perform according to specification ☐
- Regulating user and process access to various aspects of the system ☐
- The flow of control within the system ☐

The flow of data within the system ☐

A _____ operating system provides the illusion of a single main memory space and a single secondary memory space, plus other unified access facilities

modular ☐

Uni-programming ☐

monolithic ☐

distributed ☐

The _____ is the portion of the operating system that remains in main memory during system operation

monolithic ☐

kernel or nucleus ☐

interruption ☐

modular ☐

In an operating system, the unit of dispatching is usually referred to as a _____, while the unit of resource ownership is usually referred to as a process or task

Process context ☐

thread ☐

process image ☐

process ☐

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