

# Unit OS11: Performance Evaluation

## 11.3. Quiz

Windows Operating System Internals - by David A. Solomon and Mark E. Russinovich with Andreas Polze

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## Performance Bottlenecks

A high % Processor Time utilization indicates:

- a) CPU bottleneck
- b) Memory bottleneck
- c) Disk bottleneck
- d) Network bottleneck

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## Performance Bottlenecks

A processor queue length greater than what value indicates a CPU bottleneck:

- a) 1
- b) 2
- c) 3
- d) 4

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## Performance Bottlenecks

The Average Disk Queue Length per spindle should not exceed:

- a) 1
- b) 2
- c) 3
- d) 4

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## Performance Bottlenecks

Which memory counter should you monitor to determine if you need more memory?

- a) Memory / Page Faults/second
- b) Memory / Page Reads/second
- c) Memory / Available Bytes
- d) Paging File / % Usage

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## System vs Boot Volume

Which of the following files resides on the system volume?

- a) NTLDR
- b) NTOSKRNL.EXE
- c) \WINDOWS
- d) HAL.DLL

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## MBR

MBR stands for which of the following:

- a) Master Boot Record
- b) Master Boot RAM
- c) Main Boot Resource
- d) Mother Board Record

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## Driver Start Types

Which of the following are true:

- a) Boot-start drivers load before Session Manager starts whereas system-start drivers load after
- b) Enabled system-start drivers always load in Safe Mode
- c) The I/O Manager starts automatic-start drivers
- d) Boot-start drivers are loaded by NTLDR, not the I/O Manager

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## Session Manager

Session Manager creates which of these processes?

- a) Explorer.exe
- b) Csrss.exe
- c) Userinit.exe
- d) Services.exe

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## System Crashes

Which of the following will cause a system crash?

- a) An application passes invalid data to a kernel service
- b) An application attempts to directly access hardware
- c) A driver attempts to execute an invalid CPU instruction
- d) An application attempts to overwrite kernel memory
- e) Any driver attempts to reference pageable memory

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## Recovery Console

Which of the following can you do from a default Recovery Console installation?

- a) Copy your Word files to a floppy disk
- b) Change Registry values under HKLM\System\CurrentControlSet\Control to fix misconfiguration that results in a crash
- c) Disable a driver that's preventing the system from booting successfully
- d) Copy fresh system files from a network share

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## Last Known Good

Which of the following problems would *not* be solved by using Last Known Good:

- a) You've updated a device driver with a new version and the system crashes early in the boot process
- b) You update an application and changes to an Explorer extension prevent you from reaching the desktop upon login
- c) You purchase and install a new device and the system crashes after a reboot early in the boot process
- d) You modify a Registry setting under HKLM\System\CurrentControlSet\Services and the system hangs during the next boot at the Windows splash screen

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## Control Sets

A Control Set includes which of the following:

- a) Device driver configuration
- b) Windows service configuration
- c) Kernel parameters
- d) Application configuration
- e) A, b and c

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## Safe Mode

Which type of Safe Mode does not help resolve a problem involving a device driver, Windows service?

- a) Minimal
- b) Network
- c) Command Prompt
- d) Directory Services Restore

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## System Restore

System Restore can undo which of the following problems?

- a) You install an application that stops you from accessing the desktop on logon
- b) You install a CD-burning application that causes your CD ROM volume to disappear from Explorer
- c) You update your video driver and the system does not boot successfully
- d) You accidentally delete an important text document

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## System Recovery

Which recovery mechanism *cannot* be used to repair an unbootable system?

- a) Last Known Good
- b) Safe Mode
- c) Recover Console
- d) System Restore
- e) Automated System Recovery