

# Operating Systems - Revision Test

Revision Quiz for Operating Systems, Fall Semester

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Δεν κοινοποιήθηκε

\* Υποδεικνύει απαιτούμενη ερώτηση

True or False? The role of the X display server is to handle user I/O. \*

1 βαθμός

- ☐ True
- ☐ False

What is the purpose of the 'whoami' Linux command? \*

1 βαθμός

- ☐ To check for active processes
- ☐ To display the current user
- ☐ To display system time
- ☐ To trigger an existential crisis

True or False? Pipes allow for bidirectional IPC. \*

1 βαθμός

- ☐ True
- ☐ False



What does 'vi' refer to in Linux? \*

1 βαθμός

- ☐ A text editor
- ☐ A shell type
- ☐ A system process
- ☐ None of the above

What functionality does DNS offer? \*

1 βαθμός

- ☐ Map IP to MAC addresses
- ☐ Map IP addresses to domain names
- ☐ Map domain names to IP addresses
- ☐ Map domain names to MAC addresses

How can you access the Linux manual pages? \*

1 βαθμός

- ☐ Using the 'manual' command
- ☐ Using the 'man' command
- ☐ Using the 'pages' command
- ☐ All of the above



What are POSIX message queues use for in Linux? \*

1 βαθμός

- ☐ Exchange of social media messages
- ☐ Network sockets management
- ☐ IPC
- ☐ Bilateral system users communications

Which of the following gives read, write and execution rights to the owner \* 1 βαθμός  
of the file 'foo.bar' and their group and only read rights to others?

- ☐ chmod 777 foo.bar
- ☐ chmod 755 foo.bar
- ☐ chmod 775 foo.bar
- ☐ chmod 774 foo.bar

Which Linux command can schedule a task at a specific time? \*

1 βαθμός

- ☐ at
- ☐ task
- ☐ cd
- ☐ mkdir



What is the wait() system call used for? \*

1 βαθμός

- ☐ To wait for state changes in a child process
- ☐ To wait for state changes in a parent process
- ☐ To wait for state changes in another process
- ☐ To wait for something to happen, in general

Which of the following tests for integer equality in shell scripting? \*

1 βαθμός

- ☐ =
- ☐ ==
- ☐ -eq
- ☐ --eq

Which system call is used to remove a named semaphore in Linux? \*

1 βαθμός

- ☐ sem\_destroy()
- ☐ sem\_remove()
- ☐ sem\_unlink()
- ☐ sem\_close()



What is the purpose of the 'uname' command in Linux? \*

1 βαθμός

- ☐ Remove the name of a user
- ☐ Remove the name of the system
- ☐ Display all unnamed users
- ☐ Display system information

Which of the following IPC mechanisms allows process communication over networks?

\* 1 βαθμός

- ☐ Sockets
- ☐ Semaphores
- ☐ Shared memory
- ☐ Pipes

What is the purpose of the pipe() system call in Linux? \*

1 βαθμός

- ☐ Allows handling irrigation pipes through the system
- ☐ Allows unidirectional communication between system processes
- ☐ Allows unirectional communication between threads
- ☐ None of the above



Which of the following can be accomplished using message queues? \*

1 βαθμός

- ☐ Bilateral communication through network sockets
- ☐ Bilateral communication through files
- ☐ Bilateral communication between processes
- ☐ All of the above

What is execl() system call used for? \*

1 βαθμός

- ☐ To request the system to execute a child process
- ☐ To request the system to execute the systems process
- ☐ To request the sytem to execute an exeutable file
- ☐ All of the above

Which Linux command reports or omits repeated lines? \*

1 βαθμός

- ☐ rev
- ☐ uniq
- ☐ for
- ☐ chown



What does the 'du' Linux command do? \*

1 βαθμός

- ☐ Displays derived users
- ☐ Displays down time
- ☐ Displays damaged user files
- ☐ Displays disk usage

What does 'Ctrl + C' do in a Linux shell? \*

1 βαθμός

- ☐ Terminate a background process
- ☐ Terminate a foreground process
- ☐ Terminate any process
- ☐ Terminate the shell session

Which Linux command can be used for creating a new file? \*

1 βαθμός

- ☐ mkdir
- ☐ touch
- ☐ ls
- ☐ grep



How to delete a pipe with Linux system calls? \*

1 βαθμός

- ☐ delete()
- ☐ close()
- ☐ kill()
- ☐ destroy()

Which of the following is the most adequate description of a semaphore? \* 1 βαθμός

- ☐ File descriptor
- ☐ Process identifier
- ☐ Socket identifier
- ☐ Integer synchronisation variable

True or False? The system call dispatcher handles user system calls. \* 1 βαθμός

- ☐ True
- ☐ False





Which of the following can be used for searching specifically for fixed strings in a file?

\* 1 βαθμός

- ☐ grep
- ☐ egrep
- ☐ fgrep
- ☐ None of the above

What does the 'cat' command do in Linux? \*

1 βαθμός

- ☐ Print an ASCII-art cat on the screen
- ☐ Concatenates two files
- ☐ Shows the contents of a file
- ☐ None of the above

What is the purpose of the netstat command in Linux? \*

1 βαθμός

- ☐ To display network connections
- ☐ To display routing tables
- ☐ To display network interface statistics
- ☐ All of the above



What does 'rm -fr \*' do? \*

1 βαθμός

- ☐ Remove all French-related packages
- ☐ Deletes all subdirectories recursively
- ☐ Deletes the current directory only
- ☐ None of the above

Which system call converts an IPv4 address from text to binary? \*

1 βαθμός

- ☐ inet\_bin()
- ☐ inet\_addr()
- ☐ inet\_from\_text()
- ☐ All of the above

Which command can change the prioritisation of system processes? \*

1 βαθμός

- ☐ nice
- ☐ prioritise
- ☐ prior
- ☐ ugly



What is the purpose of semaphores in Linux? \*

1 βαθμός

- ☐ Interprocess Communication
- ☐ Process Synchronisation
- ☐ Memory Management
- ☐ Process Profiling

What is the purpose of the 'tail' Linux command? \*

1 βαθμός

- ☐ To present the last line of a file
- ☐ To present the last 5 lines of a file
- ☐ To present the last 10 lines of a file
- ☐ To present the last 20 lines of a file

What does "\$#" do in Linux? \*

1 βαθμός

- ☐ Checks for the total number of arguments passed to a function / script
- ☐ Computes the total number of files within the current directory
- ☐ Checks for the total number of commands executed in this session
- ☐ None of the above



What is the purpose of the P(S) semaphore operation? \*

1 βαθμός

- ☐ Release the semaphore after checking a condition
- ☐ Increase the semaphore value after checking a condition
- ☐ Decrease the semaphore value after checking a condition
- ☐ Check if the semaphore is locked

True or False? The X display manager manages user sessions. \*

1 βαθμός

- ☐ True
- ☐ False

Which Linux command can be used for listing all files / directories within a certain directory? \*

1 βαθμός

- ☐ mkdir
- ☐ touch
- ☐ ls
- ☐ grep



Which Linux command can specify commands to run in response to certain signals?

\* 1 βαθμός

- ☐ sig
- ☐ start
- ☐ sigstart
- ☐ trap

Which Linux command can end a terminal session? \*

1 βαθμός

- ☐ end
- ☐ done
- ☐ gone
- ☐ exit

What is the purpose of the fork() system call in Linux? \*

1 βαθμός

- ☐ To create a new thread
- ☐ To create a new process
- ☐ To create multiple threads at the same time
- ☐ to create multiple processes at the same time



What is the purpose of sem\_open() system call? \*

1 βαθμός

- ☐ To open a new named semaphore
- ☐ To close a new named semaphore
- ☐ To get the value of a named semaphored
- ☐ All of the above

How to change a Linux user's password? \*

1 βαθμός

- ☐ passwd
- ☐ userdel
- ☐ chggrp
- ☐ None of the above

How to reposition the read / write file offset in Linux \*

1 βαθμός

- ☐ reposition()
- ☐ file\_offset()
- ☐ lseek()
- ☐ fopen()



What is the purpose of the 'diff' Linux command? \*

1 βαθμός

- ☐ To compare files line by line
- ☐ To join two different files
- ☐ To extract line sections
- ☐ To merge lines of files

Which Linux command can be used to display the current directory? \*

1 βαθμός

- ☐ mkdir
- ☐ dir
- ☐ pwd
- ☐ ls

What is the segment table used for in virtual memory management? \*

1 βαθμός

- ☐ Dynamic memory allocation
- ☐ Segment removal from shared memory
- ☐ Mapping segments to memory pages
- ☐ None of the above



How to append output of a command to a file? \*

1 βαθμός

- ☐ >>
- ☐ >
- ☐ <
- ☐ <<

Which symbol executes the command preceding it on condition of its successful execution?

\* 1 βαθμός

- ☐ &
- ☐ \$
- ☐ &&
- ☐ \$\$

Which Linux command can be used for creating a new directory? \*

1 βαθμός

- ☐ mkdir
- ☐ touch
- ☐ ls
- ☐ grep





In Linux a Daemon refers to: \*

1 βαθμός

- ☐ A metaphysical entity
- ☐ A way to organise files on disk
- ☐ A certain type of superuser
- ☐ A background process

What does '\$' stand for in Linux terminal commands? \*

1 βαθμός

- ☐ A variable
- ☐ Money
- ☐ A shell session
- ☐ None of the above

Which of the following tests for string equality in shell scripting? \*

1 βαθμός

- ☐ =
- ☐ ==
- ☐ -eq
- ☐ --eq



What is the purpose of the Address Resolution Protocol (ARP)? \*

1 βαθμός

- ☐ Map MAC to IP addresses
- ☐ Map IP to MAC addresses
- ☐ Map IPv6 to IPv4 addresses
- ☐ Map IPv4 to IPv6 addresses

Which Linux command can display information about currently logged in users? \*

1 βαθμός

- ☐ what
- ☐ who
- ☐ whoarethey
- ☐ whoami

Which of the following system calls is used to request the kernel to execute an executable file?

\* 1 βαθμός

- ☐ run()
- ☐ execl()
- ☐ kickstart()
- ☐ execute()



How to read from a file descriptor in Linux? \*

1 βαθμός

- ☐ read()
- ☐ write()
- ☐ learn()
- ☐ study()

Υποβολή

Σελίδα 1 από 1

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