NTNU | Norwegian University of Science and Technology

Operating Systems

Q&A Session - 18.02.2021

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Corona situation and consultation

- The Gløshaugen campus is open again...
 - but only for small groups as before (adhere to the known Corona precautions as usual when you're on campus!)
 - No physical lectures for the foreseeable future
- Piazza license payment finally confirmed...
 - ...but the nag requester on piazza hasn't disappeared yet :(
- Request for TA consultation hours
 - We are organizing this and will offer at least two hours per week (if all goes well, four hours)
 - A TA will be available in a zoom session
 - You can join from home or from campus if you are doing group work there
 - Details (times etc.) early next week

Practical exercise organization

- Submission deadline for PE2 *extended*
 - ...due to popular demand! 😔
 - There was some confusion since we postponed the submission of PE1
 - New deadline: tomorrow, Friday, February 19th 14:00
- The following PEs will (most probably) not be postponed
 - So for TE3, PE3 and all following ones the deadline is: *Thursday at 12:00*
- Some problems with getting correct points in PE1
 - Two groups accidentally received 0 points, looking into it

PE2

Confusion on some details:

- Error checking where, how, to which extent?
 - **scanf** error checking is important
 - scanf tells you if e.g. the input was a character string instead of a number
 - **printf** error checking is less important
 - printf returns the number of successfully printed characters
 - this can be < the number of characters to print
 - ...but rarely on a terminal
 - rather when writing to a file and the disk is full
 - exit error checking? void exit(int status);
 "RETURN VALUES
 The exit() and Exit() functions new

The exit() and _Exit() functions never return."



Operating Systems Q&A

PE2

Confusion on some details:

wait and zombies

- Most of you have figured out that wait is problematic: "The wait(2) system call suspends execution of the calling thread until one of its children terminates."
 - This would keep the program from reading an additional alarm time and starting a new child proc.
- Read the manpage
 - waitpid(2) might also help:
 "If <u>pid</u> is -1, the call waits for any child process"
 - Tip: Look at the "WNOHANG" option...
- "Why don't we use signal?"
 - Because we didn't discuss Unix IPC and signals in the lecture so far (but great that you have found it!)