



Unix system

Minitalk

Contact b-psu-150@epitech.eu

Abstract:



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.1 Administrative details

- Your sources shall be turned-in on the `PSU_year_minitalk` directory
ex: `PSU_2013_minitalk` for the 2013-2014 solar year
- Your binaries shall be compiled by one (and only one!) Makefile.
- Your binaries shall be named `server` and `client`. They will be located in their respective directory.



.2 Subject

- You must program a client and a communication server.
- The server must be launched first and displays its PID after launch.
- The client takes what follows as parameters:
 - The server's PID
 - A string
- The client must send the given string as parameter to the server. Once received, the server must display it.

.3 Details

- The communication between the client and the server must be done only using signals.
- The server shall display the string quickly: 15 seconds for 100 characters is way too long.
- The server shall be able to handle various clients following each others.
- You can use only one global variable (which shall be justified)
- You are only allowed to use the signals SIGUSR1 and SIGUSR2.

.4 Bonus

- Handling of transmission errors and reissue.
- Handling conflicts between simultaneous clients.
- Proper management of resources (CPU usage time...)



.5 Authorized functions

- signal
- kill
- getpid
- malloc
- free
- pause
- sleep
- usleep
- exit
- sigaction (only for multi-client bonus).