

Laboratory #4 – Shared Memory, Message Queue– March 30th 2021

Exercise 1 (Shared Memory in POSIX). A program partitions the computation between 2 processes (a parent and a child):

- The parent reads from a file (called “number.dat”) a list of integer numbers bigger than 0 separated by space and sends to the child
- The child prints the received numbers.
- There are no repeated numbers.
- The “number.dat” ends with 0.

Use the **shared memory in POSIX**.

Exercise 2 (Message Queue)- Write a modified Linux shell based on a client/server architecture. The new shell must have the following characteristics:

- The client receives commands on the command line.
- Every command is sent to the server and executed in background.
- The shell terminates when the user enters the exit command.

Try to implement the client/server communication using **Message Queues**.