
TP 8 : Fork and files

1 Ping-pong

We're trying to write a program that reads 0 and 1 from the terminal, and send them as signals to a children process. One first implementation can be found in the `pingpong.c` file. Identify the problems with this implementation and fix them.

2 Listing

Write a program that lists the content of the current directory, printing the owner, group, permission and type of each file.

3 Shell manipulations

The file `film.csv` contains information about many films in *CSV* format, with separator `;`. Find shell one-liners to answer the following questions :

- Sort movies by popularity
- How many films do not have a directory
- The title of the first 15 films without the principal actor by alphabetic order
- Find the 10 directors that directed the most films, with the number of films
- Find how many films with awards each directors directed

4 Password discovery

A compiled binary is given that prompt for a password.

You know that :

- The characters allowed are letters, number, #, \$ and %.
- There must be at least one special character.
- The password must have at least 20 characters.

Find the correct password.