Pipes

44-550: Operating Systems

Pipes

- Similar to sockets
    - End to end communication
- One way communication
    - One end reads
    - One end writes
- Creating a pipe takes an array of integers of size 2 (Read end, write end)

Creating a Pipe

Pipe creation

int pipe(**int** pipefd[2]);

Initializes the pipe; pipefd[0] is the read end of the pipe, pipefd[1] is the write end. Returns 0 on success and -1 on an error.

Reading and writing functionality is provided by the same functions as are used when communicating with sockets.