1   NAME

homework-fork - Process files using multiple child processes with different delays and line reversal.

2   SYNOPSIS

homework-fork [OPTIONS] FILE. . .

3   DESCRIPTION

The 'homework-fork' program processes input files using multiple child processes. Each child process has its own delay and can reverse lines before printing them. The parent process waits for all child processes to complete their tasks.

4   OPTIONS

- **-h** Display the help message.

- **-r** Reverse each line before printing.

- **-d [delay]** Specify a delay in seconds or fractions thereof. For example, '-d 0.5' adds a 500 milliseconds delay between lines.

5   FILE

Input files to be processed. Multiple files can be provided, and options can be in any order.

6   EXIT STATUS

0: Successful execution 1: An error occurred

7   EXAMPLES

- Process a file with a 1-second delay and line reversal:

```
homework_fork -r -d 1 file.txt
```

- Process multiple files using forks:

```
homework_fork -d 0.5 file1.txt file2.txt
```

8 SEE ALSO

- 'man fork'

- 'man waitpid'

- 'man getline'

9 NOTES

This program creates a child process for each file argument, making it suitable for parallel processing. Each child has its own delay and can reverse lines.