

Operating-system homework#1

Programming problems

Kernel: 6.8.1-arch1-1

gcc (GCC) 13.2.1

compile

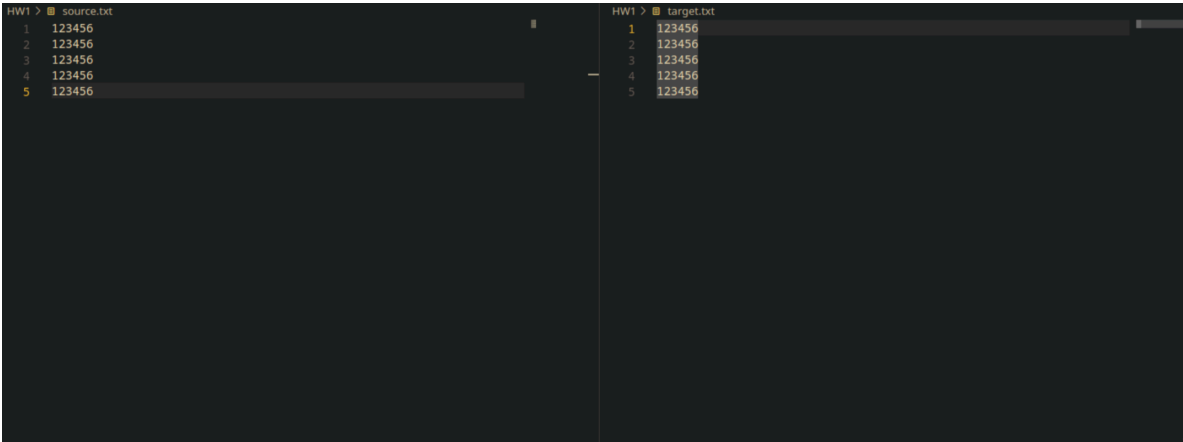
```
• wj461 | ▶ ~/code/os/HW1 | ▶ main ± > make
gcc -c -o cp.o cp.c
gcc -c -o time_shm.o time_shm.c
gcc -c -o time_pipe.o time_pipe.c
gcc -o cp.exe cp.c
gcc -o time_shm.exe time_shm.c
gcc -o time_pipe.exe time_pipe.c
```

2.24

- result

- ▶ txt

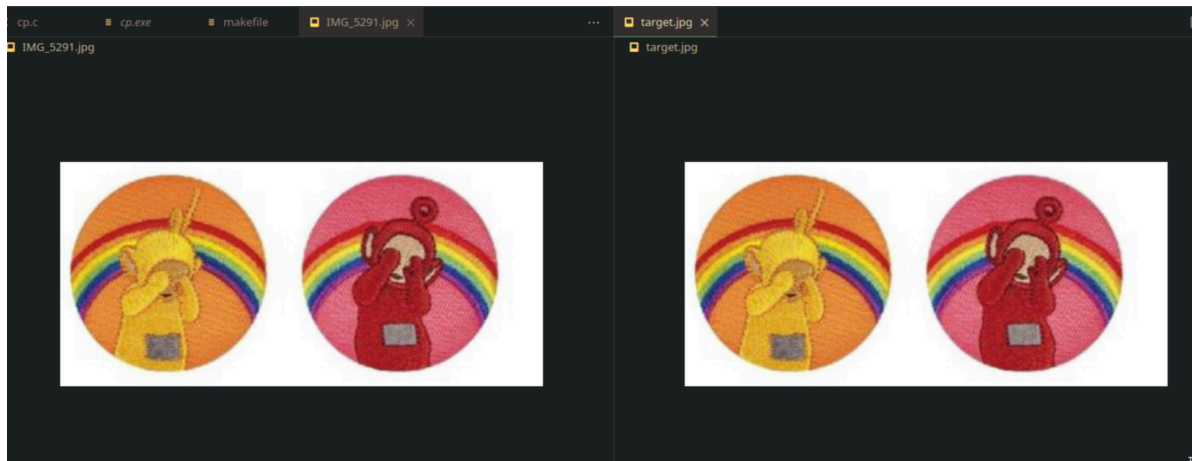
```
• wj461 | ▶ ~/code/os/HW1 | ▶ main ± > ./cp.exe source.txt target.txt
```



The screenshot shows two side-by-side terminal windows. The left window, titled 'HW1 > source.txt', displays the contents of 'source.txt' which consists of five lines, each containing the number '123456'. The right window, titled 'HW1 > target.txt', displays the contents of 'target.txt' which also consists of five lines, each containing the number '123456'. This demonstrates that the cp.exe program has successfully copied the contents of source.txt to target.txt.

- ▶ jpg

```
• wj461 | ▶ ~/code/os/HW1 | ▶ main ± > ./cp.exe IMG_5291.jpg target.jpg
```



3.19

- result

```
• wj461 | ▶ ~/code/os/HW1 | ▶ main ± > ./time_pipe.exe echo 123
123
time:2741 us
• wj461 | ▶ ~/code/os/HW1 | ▶ main ± > ./time_shm.exe echo 123
123
time:2436 us
```