

Lab02b-Pipes

Nome:Hao Yue Zheng-10408948

Nome:Smuel Zheng-10395781

Nome:Vitor Pasquarelli Cinalli-10401806

Linker

<https://github.com/mauriciohao/Sistema-operacional.git>

Codigo

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/wait.h>

int main() {
    int pipefd[2];
    int value = 5;
    pid_t pid;

    pipe(pipefd);
    pid = fork();

    if (pid == 0) {
        printf("Entrei no filho!\n");
        value += 15;
        printf ("CHILD: value = %d\n",value);
        write(pipefd[1], &value, sizeof(value));
        exit(0);
    } else {
        wait(NULL);
        read(pipefd[0], &value, sizeof(value));
        printf("PARENT: value = %d\n", value);
        exit(0);
    }
}
```

Resolução

```
us-east-1 |
GNU nano 5.8
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/wait.h>

int main() {
    int pipefd[2];
    int value = 5;
    pid_t pid;

    pipe(pipefd);
    pid = fork();

    if (pid == 0) {
        printf("Entrei no filho!\n");
        value += 15;
        printf ("CHILD: value = %d\n",value);
        write(pipefd[1], &value, sizeof(value));
        exit(0);
    } else {
        wait(NULL);
        read(pipefd[0], &value, sizeof(value));
        printf("PARENT: value = %d\n", value);
        exit(0);
    }
}

^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify
```

```
[cloudshell-user@ip-10-138-186-247 ~]$ sudo nano
[cloudshell-user@ip-10-138-186-247 ~]$ gcc -o lab2 pipes.c
[cloudshell-user@ip-10-138-186-247 ~]$ ./lab2
Entrei no filho!
CHILD: value = 20
PARENT: value = 20
[cloudshell-user@ip-10-138-186-247 ~]$
```