

# **Operációs rendszerek BSc**

9. gyak.

2021. 04. 07.

**Készítette:**

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MZ727W

**Miskolc, 2021**

1) feladat – Unnamed pipe

```
1  #include <stdio.h>
2  #include <unistd.h>
3
4  ► int main() {
5      int fd[2];
6      int child;
7
8      if (pipe(fd)) {
9          perror("Ez most nem jött be.");
10         return 1;
11     }
12
13     child = fork();
14
15     if (child > 0) {
16         char s[1024];
17         close(fd[1]);
18         read(fd[0], s, sizeof(s));
19         printf("%s", s);
20         close(fd[0]);
21     } else if (child == 0) {
22         close(fd[0]);
23         write( fd: fd[1], buf: "SJ MZ727W\n", nbyte: 12);
24         close(fd[1]);
25     }
26
27     return 0;
28 }
```

```
./unnamed
SJ MZ727W
```

~/CLionProjects/OSgyak09/cmake-build-debug

11:43:53

## 2) feladat – Named pipe

```
#include <stdio.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/stat.h>

int main() {
    int child;

    mkfifo("MZ727W", S_IRUSR | S_IWUSR);
    child = fork();

    if(child > 0) {
        char s[1024];
        int fd;

        fd = open("MZ727W", O_RDONLY);
        read(fd, s, sizeof(s));
        printf("%s", s);
        close(fd);
        unlink("MZ727W");
    } else if(child == 0) {
        int fd = open("MZ727W", O_WRONLY);
        write(fd, buf: "Simonyák János\n", nbyte: 24);
        close(fd);
    }

    return 0;
}
```

```
> ./named
Simonyák János
```

```
~ /CLionProjects/OSgyak09/cmake-build-debug
```

11:54:38