

Tecnológico de Monterrey, Campus Guadalajara

**ADVANCED PROGRAMMING**

**COMPARISON CAT  
PERFORMANCE**

**REPORT BY:**

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## 1. Introduction

In the following project we will analyze the behavior of the cat program provided by the professor and the “mycat.c” program made with system calls: open, read and write. We will compare the running time of both programs by using files of different sizes.

## 2. Process

### 2.1 Compile

To compile the programs we run the commands:

```
gcc mycat.c -o mycat
gcc cat.c -o cat
```

### 2.2 Run

To run the programs we add time at the beginning to obtain the running time of each program with the different files:

```
time ./mycat.c <filename>
time ./cat.c <filename>
```

### 2.3 Results

file size	cat.c performance	mycat.c performance
10 KB	0.010 s	0.034 s
50 KB	0.015 s	0.170 s
100 KB	0.022 s	0.299 s
200 KB	0.035 s	0.637 s
500 KB	0.075 s	1.517 s
1000 KB	0.143 s	3.134 s

