

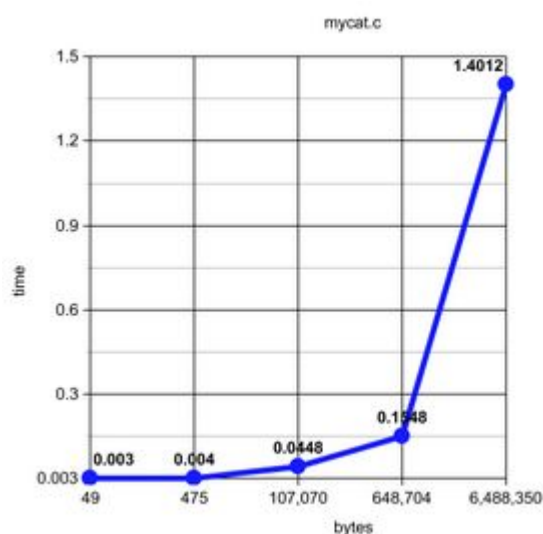
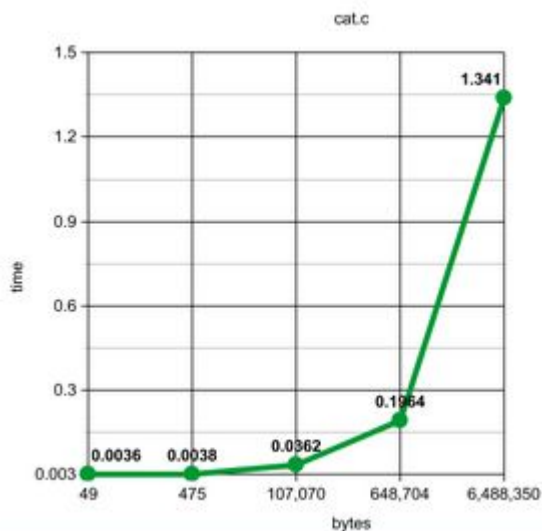
### Performance

Several files of very different sizes were used to see the differences in time between the existing cat.c and mycat.c. To get these times, the time command was used, and ran 5 times. The time (real time) displayed in the following table is the average calculated from these 5 executions.

File size (bytes)	cat (s)	mycat (s)
49	.0036	.003
475	.0038	.004
107,070	.0362	.0448
648,704	.1964	.1548
6,488,350	1.341	1.4102

As you can see, cat.c's time doesn't suffer as much as mycat.c's when files start getting relatively big.

The results for the 648,704 file may have been affected by the unknown characters found in it because it was the only binary file in the tests while all the others had only valid characters. This would mean that mycat.c is somehow faster at printing unknown characters but cat.c excels in every other aspect. Its time does not increase in such a high rate and is more stable.



Overall, the times were fairly similar but only because the file sizes were relatively small. As files become bigger in size, the difference becomes more evident and the better it is to use cat.c rather than mycat.c.