Lab 9 Report

1. Create a file using “cat->file\_name”. Use “dd if=/dev/random of=file\_name bs=file\_size count=1” with file\_size being # of bytes wanted.
2. Times:

**100k**:

real 0m0.004s

user 0m0.001s

sys 0m0.002s

**1M**:

real 0m0.006s

user 0m0.001s

sys 0m0.002s

**10M**:

real 0m0.014s

user 0m0.006s

sys 0m0.006s

**100M**:

real 0m0.071s

user 0m0.036s

sys 0m0.030s

**10B**: real 0m10.235s

user 0m3.877s

sys 0m4.675s

1. Times:

**100k**:

**Buffer**

**100**:

real 0m0.101s

user 0m0.001s

sys 0m0.002s

**1000**:

real 0m0.127s

user 0m0.001s

sys 0m0.002s

**10000**:

real 0m0.104s

user 0m0.001s

sys 0m0.002s

**100000**:

real 0m0.103s

user 0m0.001s

sys 0m0.002s

**1M**:

**Buffer**

**100**:

real 0m0.366s

user 0m0.001s

sys 0m0.002s

**1000**:

real 0m0.100s

user 0m0.001s

sys 0m0.002s

**10000**:

real 0m0.103s

user 0m0.001s

sys 0m0.002s

**100000**:

real 0m0.100s

user 0m0.001s

sys 0m0.002s

**10M**:

**Buffer**

**100**:

real 0m0.005s

user 0m0.001s

sys 0m0.002s

**1000**:

real 0m0.435s

user 0m0.001s

sys 0m0.002s

**10000**:

real 0m0.005s

user 0m0.001s

sys 0m0.002s

**100000**:

real 0m0.005s

user 0m0.001s

sys 0m0.002s

**100M**:

**Buffer**

100:

real 0m5.368s

user 0m5.202s

sys 0m0.051s

1000:

real 0m5.453s

user 0m5.251s

sys 0m0.056s

10000:

real 0m5.384s

user 0m5.219s

sys 0m0.053s

100000:

real 0m5.457s

user 0m5.277s

sys 0m0.060s

**10B**:

**Buffer**

**100**:

Takes unknown length of time in minutes, possibly hours

**1000**:

“”

**10000**:

“”

**100000**:

This was the only finished one in acceptable time:

real 8m33.068s

user 8m27.101s

sys 0m5.058s

1. Times

**100k**:

**Buffer**

**100**:

real 0m0.429s

user 0m0.001s

sys 0m0.003s

**1000**:

real 0m0.105s

user 0m0.001s

sys 0m0.003s

**10000**:

real 0m0.101s

user 0m0.001s

sys 0m0.003s

**100000**:

real 0m0.100s

user 0m0.001s

sys 0m0.003s

**1M**:

**Buffer**

**100**:

real 0m0.131s

user 0m0.003s

sys 0m0.004s

**1000**:

real 0m0.100s

user 0m0.002s

sys 0m0.004s

**10000**:

real 0m0.104s

user 0m0.002s

sys 0m0.005s

**100000**:

real 0m0.101s

user 0m0.001s

sys 0m0.004s

**10M**:

**Buffer**

**100**:

real 0m0.148s

user 0m0.019s

sys 0m0.019s

**1000**:

real 0m0.132s

user 0m0.005s

sys 0m0.017s

**10000**:

real 0m0.152s

user 0m0.005s

sys 0m0.017s

**100000**:

real 0m0.126s

user 0m0.002s

sys 0m0.016s

**100M**:

**Buffer**

**100**:

real 0m0.123s

user 0m0.001s

sys 0m0.002s

**1000**:

real 0m0.099s

user 0m0.001s

sys 0m0.002s

**10000**:

real 0m0.370s

user 0m0.001s

sys 0m0.002s

**100000**:

real 0m0.100s

user 0m0.001s

sys 0m0.002s

**10B**:

**Buffer**

**100**:

real 20m1.813s

user 0m17.371s

sys 0m29.206s

**1000**:

real 16m47.289s

user 0m5.172s

sys 2m51.257s

**10000**:

real 5m47.289s

user 0m5.172s

sys 2m51.257s

**100000**:

real 1m5.843s

user 0m1.038s

sys 0m30.879s

1. Times

**100k**:

**Buffer**

**100**:

real 0m0.374s

user 0m0.001s

sys 0m0.002s

**1000**:

real 0m0.336s

user 0m0.001s

sys 0m0.002s

**10000**:

real 0m0.130s

user 0m0.001s

sys 0m0.002s

**100000**:

real 0m0.099s

user 0m0.001s

sys 0m0.002s

**1M**:

**Buffer**

**100**:

real 0m0.099s

user 0m0.001s

sys 0m0.002s

**1000**:

real 0m0.098s

user 0m0.001s

sys 0m0.002s

**10000**:

real 0m0.102s

user 0m0.001s

sys 0m0.002s

**100000**:

real 0m0.121s

user 0m0.001s

sys 0m0.002s

**10M**:

**Buffer**

**100**:

real 0m0.101s

user 0m0.001s

sys 0m0.002s

**1000**:

real 0m0.100s

user 0m0.001s

sys 0m0.002s

**10000**:

real 0m0.101s

user 0m0.001s

sys 0m0.002s

**100000**:

real 0m0.096s

user 0m0.001s

sys 0m0.002s

**100M**:

**Buffer**

**100**:

real 0m0.124s

user 0m0.001s

sys 0m0.002s

**1000**:

real 0m0.096s

user 0m0.001s

sys 0m0.002s

**10000**:

real 0m0.100s

user 0m0.001s

sys 0m0.002s

**100000**:

real 0m0.150s

user 0m0.001s

sys 0m0.002s

**10B**:

**Buffer**

**100**:

real 0m0.099s

user 0m0.001s

sys 0m0.002s

**1000**:

real 0m0.100s

user 0m0.001s

sys 0m0.002s

**10000**:

real 0m0.123s

user 0m0.001s

sys 0m0.002s

**100000**:

real 0m0.097s

user 0m0.001s

sys 0m0.002s