

Assignment # 3 Report

#cs 476/Assignment 3#

Using a Mutex

```
1 reader and 1 asker:      5.73user 11.82system 0:21.73elapsed 80%CPU
16 readers and 2 askers:   21.14user 30.60system 0:37.87elapsed 136%CPU
4 readers 8 askers:        44.87user 26.29system 0:39.35elapsed 180%CPU
16 readers 32 askers:      155.06user 15.91system 0:48.03elapsed 355%CPU
64 readers 64 askers:      6574.92user 55.46system 17:47.97elapsed 620%CPU
```

Using Channels

```
1 reader and 1 asker:      5.49user 11.81system 0:21.34elapsed 81%CPU
16 readers and 2 askers:   21.22user 28.13system 0:36.25elapsed 136%CPU
4 readers 8 askers:        38.83user 25.39system 0:36.32elapsed 176%CPU
16 readers 32 askers:      150.41user 14.46system 0:46.43elapsed 355%CPU
64 readers 64 askers:      7018.30user 27.38system 16:35.06elapsed 708%CPU
```

As seen with the two tables of information above it appears channels seem to be faster than using a mutex. However, more research will need to be done to determine if this trend is continued to be seen as we scale even higher upwards.