Lab 2 Writeup

Team 6

Qian Chen (qianchen)

Yurui Zhou (yuruiz)

Siqi Wang (siqiw)

1. Concurrency means multiple tasks executing at the same time. Parallelism means one task being broken into multiple parts and executed in parallel.
2. No. Concurrency cannot happen with only one thread. One thread can only have one execution point.
3. a) For collecting each point: t = 100mus + 10ns = 1.0001*10^-4s
   Number of points can be collected in one second: n = 1/t = 9999 > 1000
   No loss
   b) Loss rate: r = (100000 - 9999)/100000 = 90%
   c) Loss rate: r = (100000 – 9999 - 1000)/100000 = 89%
   d) Since the syscall round trip is the major component of delay, he should not use syscall. Using virtual file system to export the data is more efficient.