**Assignment 3 – Divit Koradia and Ethan Griffee**

**Introduction** – This report is meant to outline the pros and cons of the 6 selected assignments, using various tests to back up various assertions and conclude which one of the assignments would be the best data adaptor to use moving forward. The 6 teams we selected are; SnowySong, Anonymous, Purgatory, TeamBaobab, Prizes and Chunky Boys.

Originally team OHE was going to be used, but one our tests produced a Segfault.

**Description of the analysis performed** – We decided to test the 6 assignments with two different SoR files:

* 100row.sor: a relatively small file containing around 100 rows of data.
* default.sor: a large file containing more than 100,000 rows of data.

All the assignments were tested using these files to run two different functions; print\_col\_type and print\_col\_idx. For the sake of accuracy, we ran the test 3 times for each of the function and then plotted their averages in the graphs below.

**Comparison of the products’ relative performance**

Ordered list in terms of preference:

1. SnowySong
2. Anonymous
3. Chunk Boys
4. Purgatory
5. TeamBaobab
6. Prizes

Fig 1. Average time to run the function print\_col\_type on default.sor file.

Fig 2. Average time to run the function print\_col\_index on default.sor file.

Fig 3. Average time to run the function print\_col\_type on 100row.sor file.

Fig 4. Average time to run the function print\_col\_index on 100row.sor file.

**Disclaimer**: In the first two graphs we decided to not include team Prizes because their code was taking upwards of 20 mins to run on our large default.sor file.

* **Threats to validity** What could make your results wrong for someone else?
* **Recommendation to management** which consists of a list of the projects in order of preference, and a rationale for your top choice (consider also code quality and effort to integrate).