Parser

**Need:** A single run through Modelsim produces the output for multiple trials, but the raw data is ungrouped and an average across all trials must be taken for data analysis. This tool averages the signal state for each signal across all runs for every step or round. It condenses the multiple trials for each signal into an average across all trials. This allows the data to then be copied into Excel for analysis.

**Pre-usage Necessities:** This program relies on having a file named “logic\_t.sv” in the same directory as the parser. This file provides the signal names needed for analysis. It is recommended to have a copy of parser.py in the directory of the simulator that is being worked on for maximum ease of use.

**Usage:** python3 parser.py <modelsim output txt> <round or step> <runs> <seeds> > <output txt>

The data from output txt can then be copied into an Excel workbook.

**Example:** python3 parser.py results.txt round 2000 200 > output.txt

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| --- | --- | --- | --- |
|  | **Round or Step** | **Runs** | **Seeds** |
| **SROr** | Round | 2000 | 200 |
| **SROs** | Step | 30 | 1000 |
| **SIM** | Round | 50 | 200 |