**User's manual for SAT Paper**

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This file is made as a helpful guide for anyone that is analyzing the paper named “Experimental SAT Analysis. Resolution, DP and DPLL Compared”.

Firstly, let's enumerate the components of the machine on which I did my experiments. I used a windows machine, visual studio code as an Integrated Development Environment, python 3.13.3 and some python tools: pip 3.13, matplotlib.pyplot, tracemalloc, time, seaborn, glob, os.

**The components of my machine are:**

**Device Name DESKTOP-CGG2FIE**

**Processor Intel(R) Core(TM) i5-7400 CPU @ 3.00GHz 3.00 GHz**

**Installed RAM 24.0 GB**

**Storage 932 GB SSD Samsung SSD 870 EVO 1TB, 1.75 TB SSD Seagate ZA1920CV10002**

**Graphics Card Radeon RX 580 Series (8 GB)**

**System Type 64-bit operating system, x64-based processor**

I exclusively used the python tools to measure the timings and the memory allocated, I also made sure to automate all of the benchmarking so the scripts are already written in the code of each algorithm (***eg.*** ***run\_benchmark(), generate\_formula(), benchmark(), generate\_formula\_param(), generate\_large\_formula()*** ).

These scripts made my work easier, they randomly generated formulas, benchmarked the algorithm and even showed a graph based on the cpu timings and memory allocated. As a consequence, these scripts provide the paper with objectivity and eliminate the human-error.

Finally, to be able to remake my exact experiments, you would have to use the same IDE, then load the algorithm in it and change the variables in some functions (***eg. num\_base\_vars = 100, clause\_sizes = list(range(10, 1001, 20)*** ) to the numbers I specified in the paper and you will get my results.