Profiling report

Math library was profiled using standard deviation calculation on sets of inputs with various sizes.

You can find detailed reports for each test run in project repository.

Some of Gathered data

Required time to complete calculation (includes loading test data)

10 inputs – 126ms

100 inputs – 151ms

1000 inputs – 470ms

Most time-consuming function

10 inputs – Tokenizer. <u>SeparateOperatorFromText</u> - **5.1%** of total time

100 inputs – Tokenizer. <u>SeparateOperatorFromText</u> - **4.5%** of total time

1000 inputs – Tokenizer. <u>AssignOperatorDescriptionToTokens</u> - 37% of total time

Number of nodes

10 inputs – 85

100 inputs – 805

1000 inputs – 8005

Summary

Surprisingly math library does not spend most time evaluating expression but building node tree.

Most expensive operation is to tokenize given expression.

Despite out fear from slow node initialization by reflection this was not problem at all.

Additional data





