

Improving the BudgetChecker Listener Proposal

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Goal

The listener BudgetChecker is used for keeping track of the resource budget for the program during execution. Its capable of letting you know when

- Time is exceeded
- Heap is exceeded
- Depth is exceeded
- Number of states are exceeded
- Number of new states are exceeded

Milestones

Short summary of what we're going to work on for the class

1. Documentation of the class - Javadoc
2. Describe how to use the listener
3. Refactoring code to improve readability where applicable
4. Develop JPF tests

Progress

Milestones 1, 2, and 3 have been started. 1 and 3 are done, but changes may happen as needed.

1. Javadoc for all methods have been added.
2. Code has gotten small refactors (more descriptive variable names, less convoluted conditions, purged magic numbers). No major issues were noticed.
3. Added a new option to allow users to decide after how many instructions are executed to do the checks within the `instructionExecuted` method.
4. Started the readme for how to use the listener