

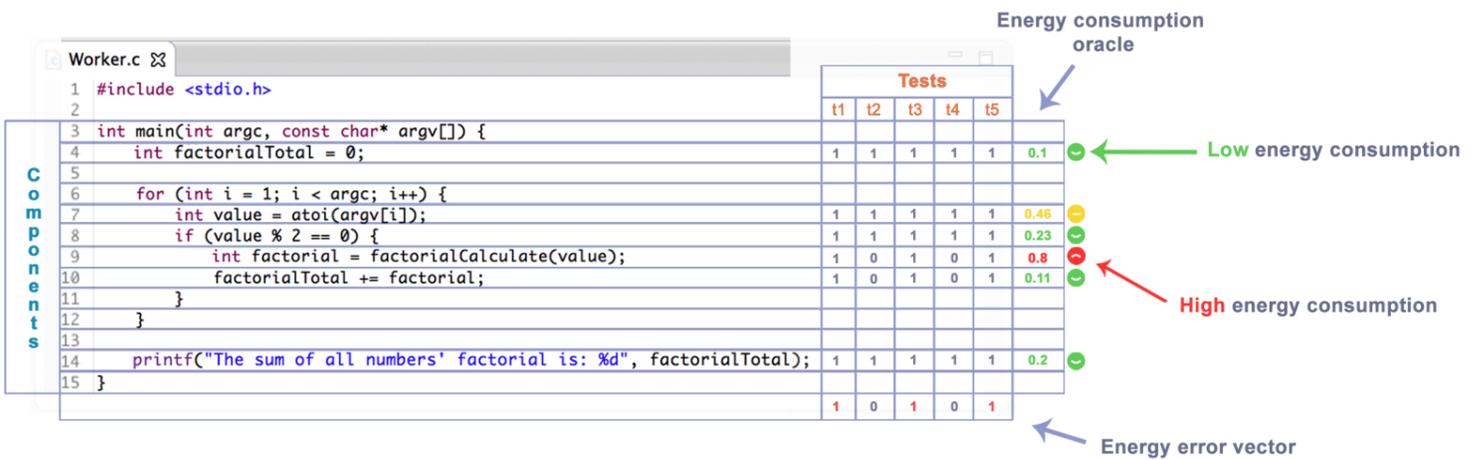
Helping Programmers Improve the Energy Efficiency of Source Code



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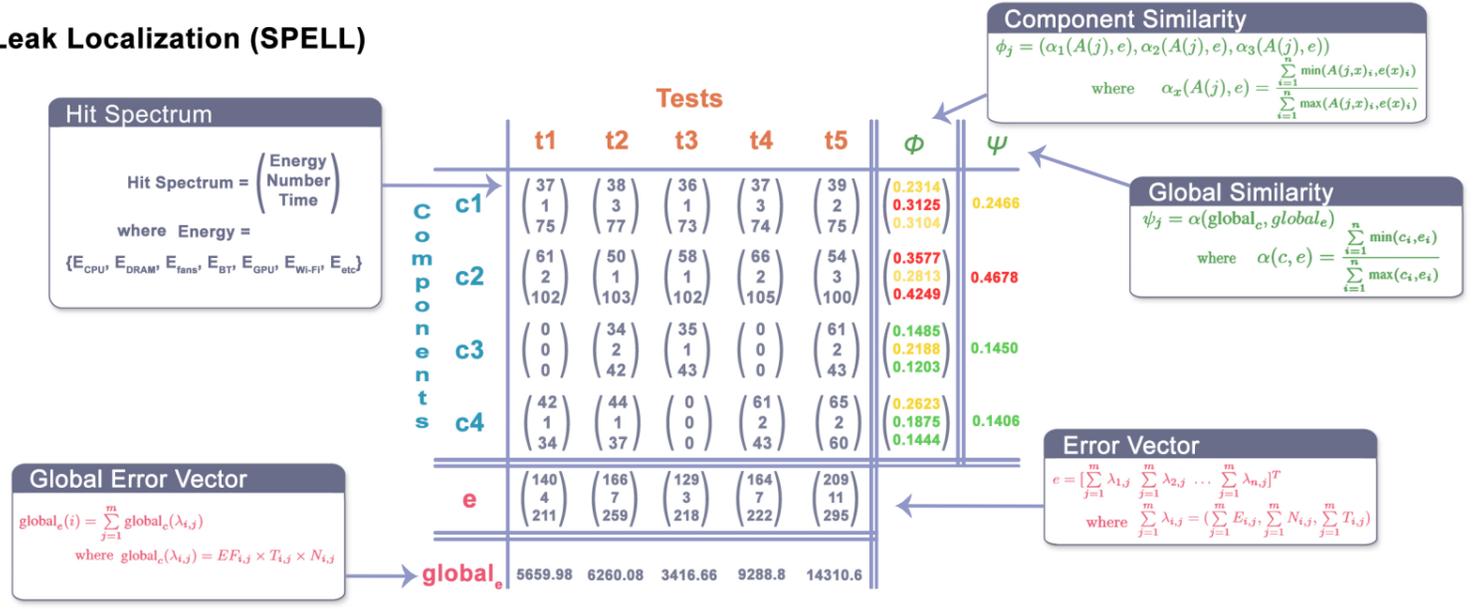
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Idea to use Spectrum-based Fault Localization (SFL) techniques to detect Energy Faults

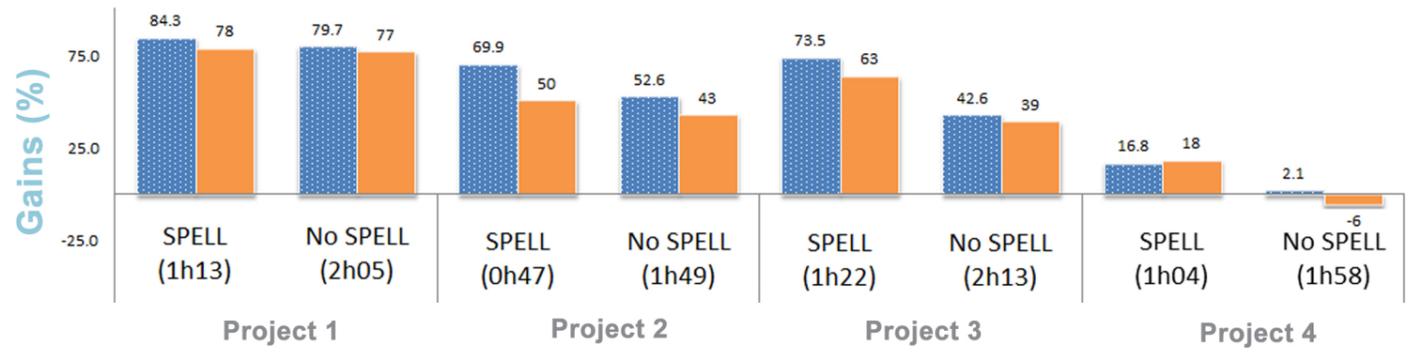


Problem: Energy cannot be defined as binary values

Spectrum-based Energy Leak Localization (SPELL)



Preliminary Study using Java Desktop Projects



Goals:



SPELL is:

- Language Independent
- Multi Level Analysis
- Multi hardware component analysis
- Points to the probable hot spots in source code



Green Software Lab
 Green Software Lab is a research group working on reducing energy consumption across various computing systems (mobile, programs, databases, etc.) using source code analysis and manipulation techniques.
 More info at <http://greenlab.di.uminho.pt>



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