



PowerAPI : *Comment maîtriser la gestion de l'énergie*


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TEAM
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 **Information Technologies**

 **13%**

French electricity consumption = 

French ministries. IT & Sustainable Development report

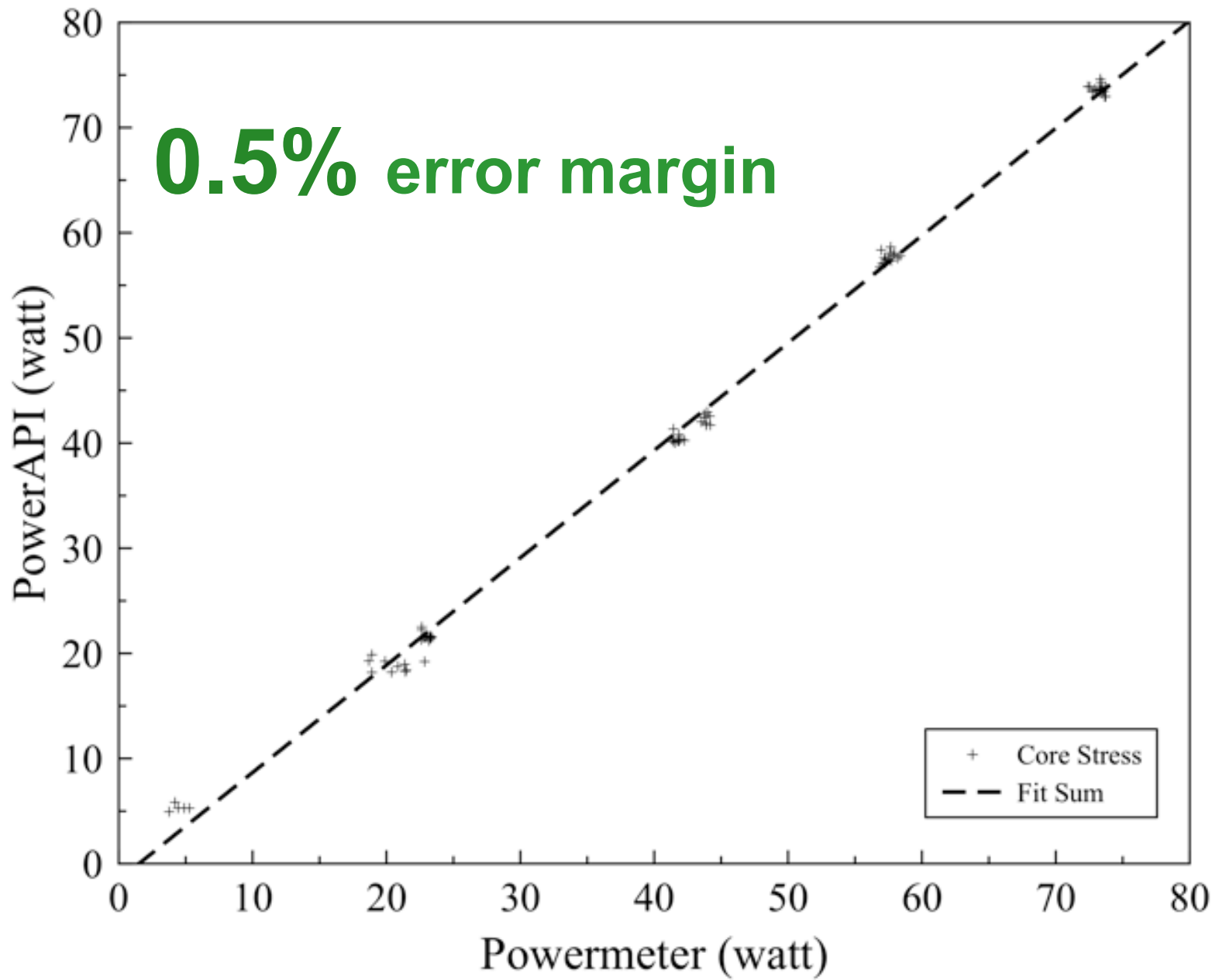
Research Opportunities

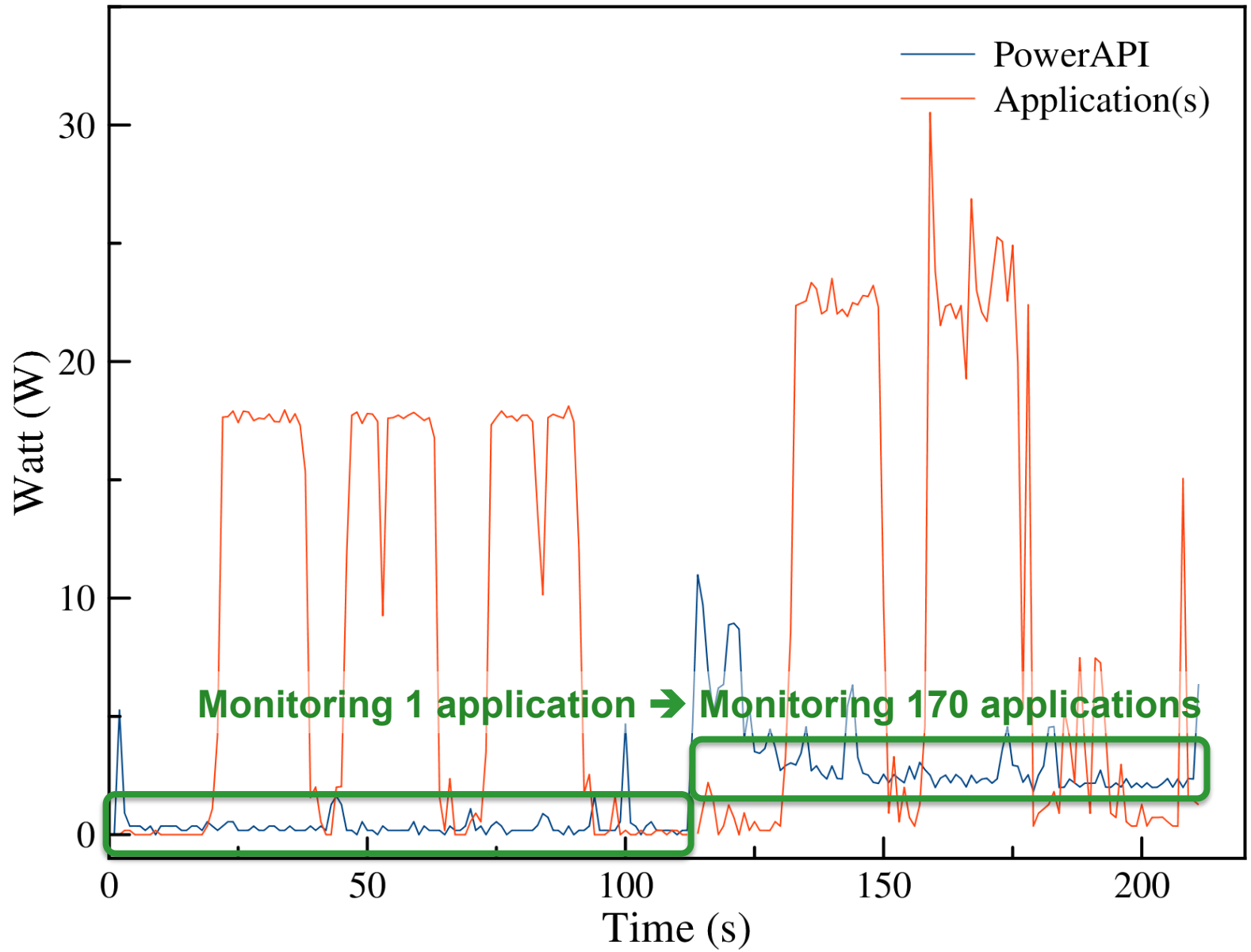
PowerAPI – Summary

- Accurate **process-level** estimation
 - *Support for CPU, Disk, Ethernet, RAM*
- **No hardware investment required**
 - *Limited overhead*
 - *Large-scale deployment*
- **Microscope «à la carte»**
 - *On-demand configuration & adaptation*
- **Transfer in progress**
 - Freely available as OSS (A-GPL) [1]
 - GreenCodeLab + ADEME

Accuracy

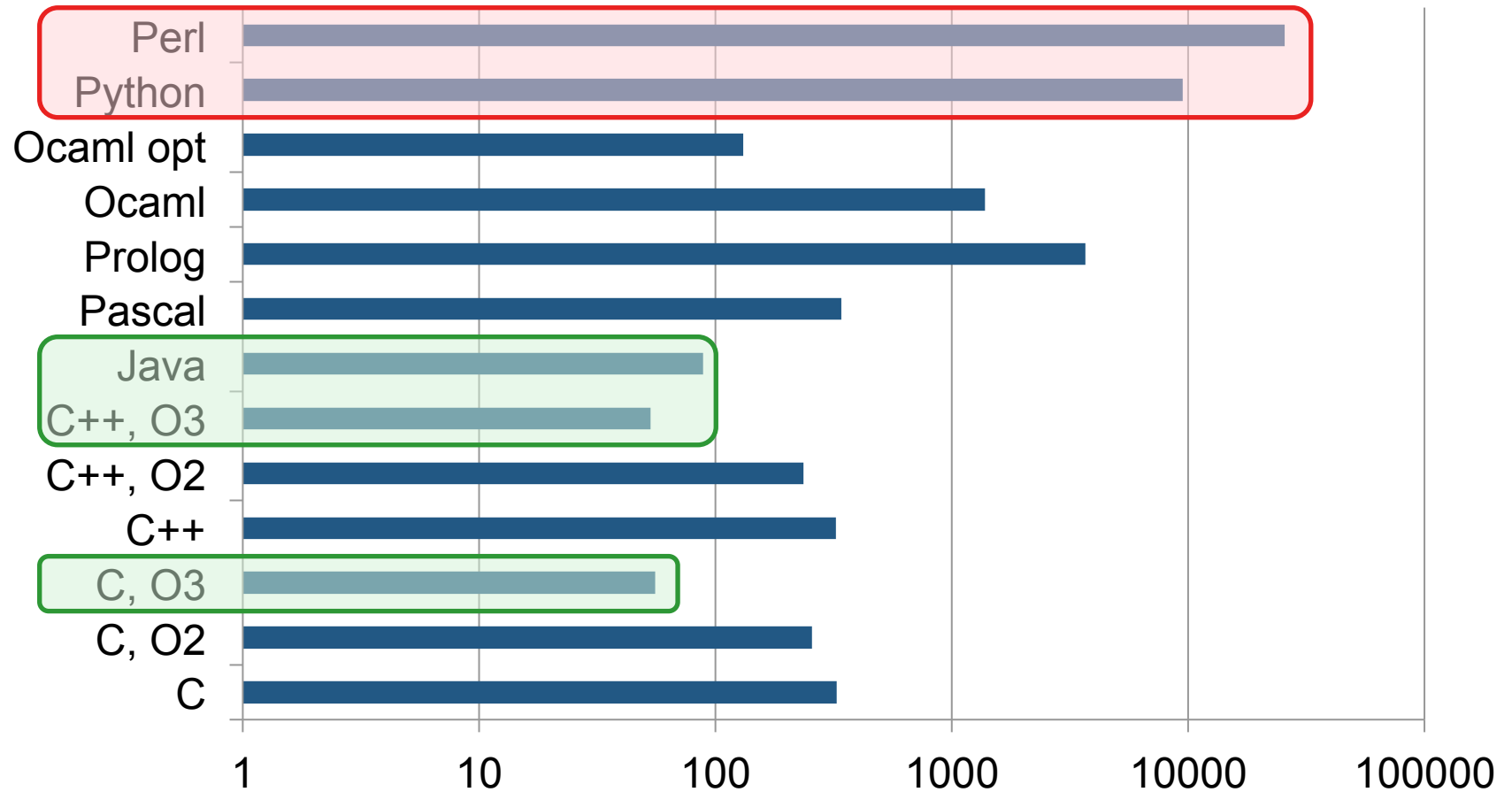


Scalability



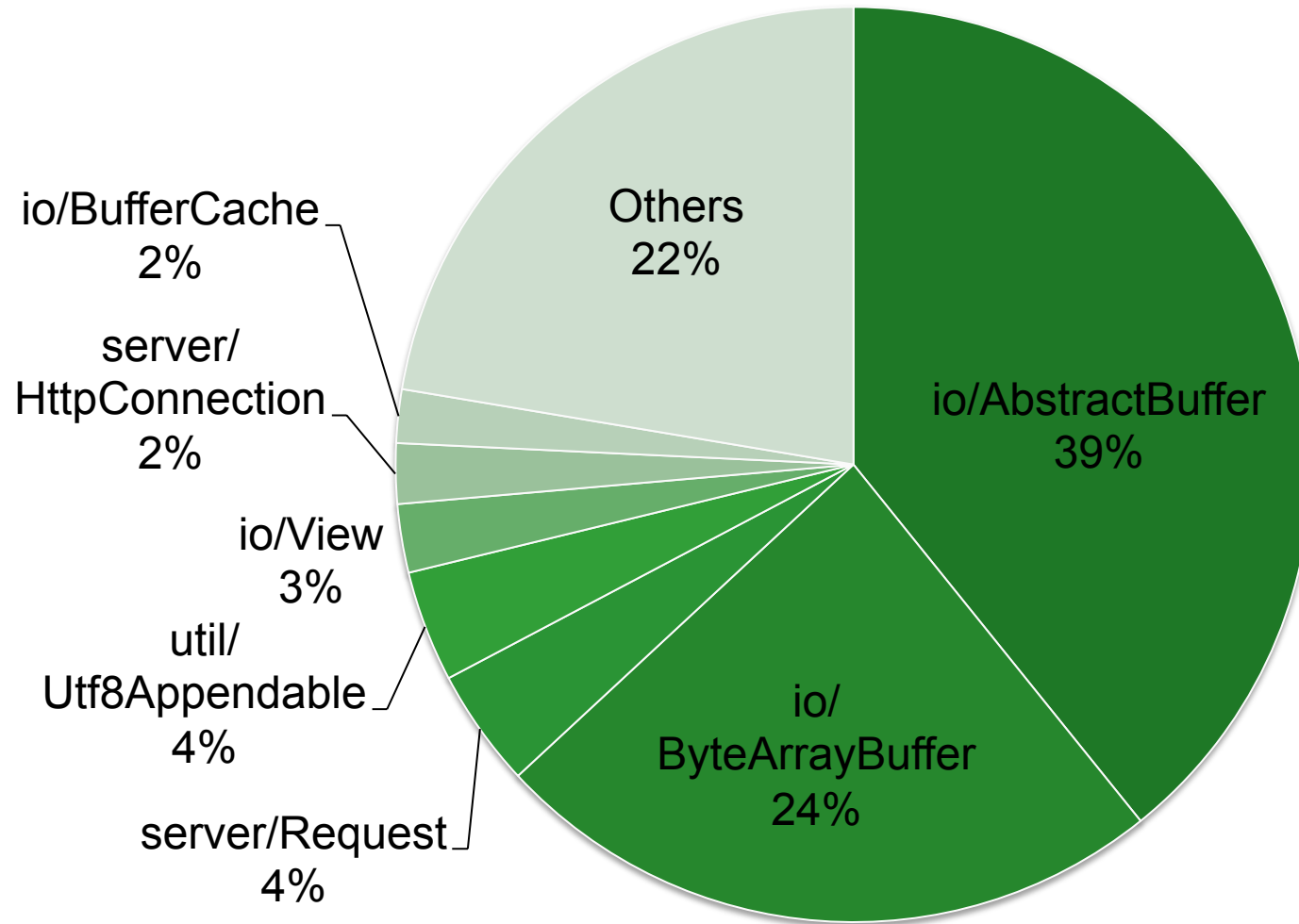
Language Footprint

Tower of Hanoi (recursive, logarithm scale)

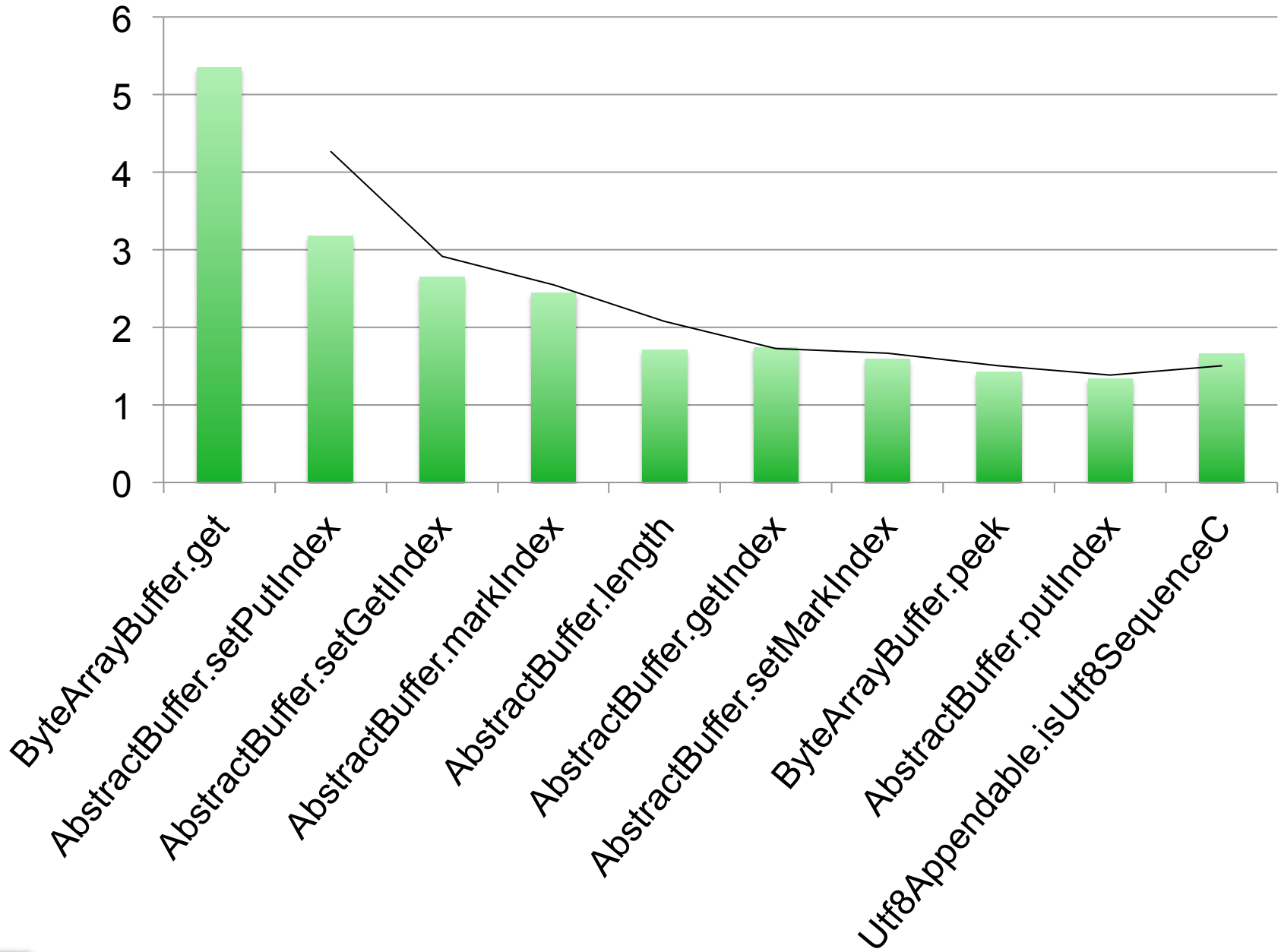


Class-level consumption

7 classes out of 146
~80% energy



Method consumption





QUESTIONS