



# Introduction

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# About Us



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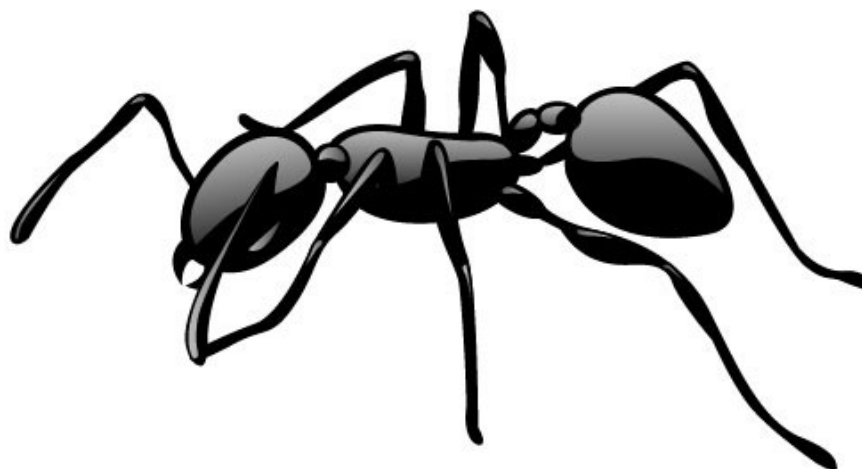
Johannes Kepler University Linz  
Austria



Philipp Lengauer



# Object Tracing aka Ant Tracks



***Accurate and Efficient Object Tracing for Java,***

*Lengauer et. al., International Conference on Performance Engineering, 2015 (ICPE'15)*

***Efficient Rebuilding of Large Java Heaps from Event Traces***

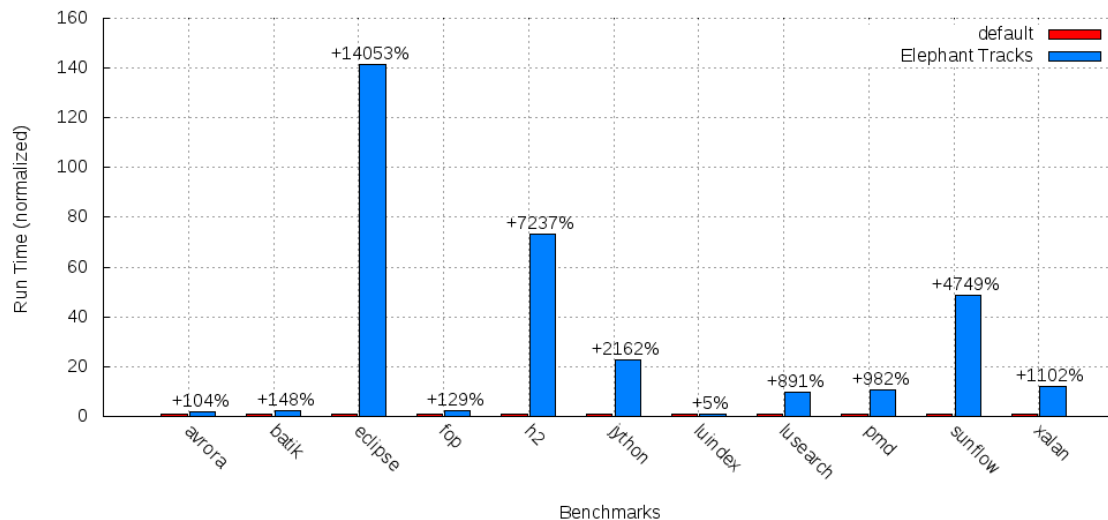
*Bitto et al., International Conference on Principles and Practice of Programming on the Java Platform: Virtual Machines, Languages, and Tools, 2015 (PPPJ'15)*

***Efficient and Viable Handling of Large Object Traces***

*Lengauer et. al., International Conference on Performance Engineering, 2015 (ICPE'16)*

# State of the Art

Run Time Overhead of Elephant Tracks

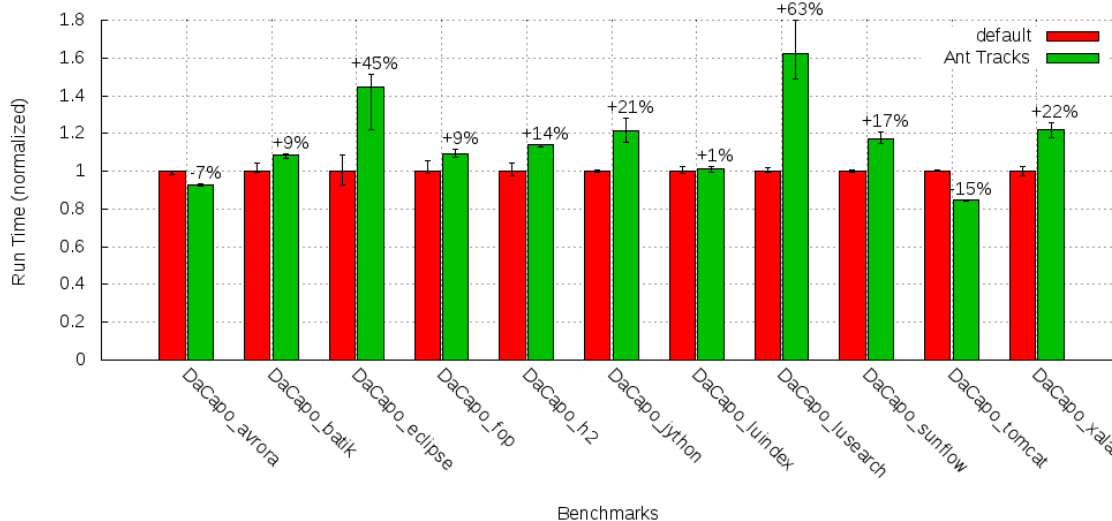


## Instrumentation based

- changes application behavior
- introduces large overhead
- unable to reconstruct heap in detail

avg(overhead) = 1054 %

Run Time Overhead of Ant Tracks



avg(overhead) = 7%