An investigation into the warmup behaviour of various virtual machines

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- measure “warmup”
- completely unclear how
VMs

- Hotspot JVM
- Graal JVM
- JRuby Truffle
- V8
- LuaJIT
- HHVM
- PyPy
- CPython
Benchmarks

- binarytrees
- fannkuchredux
- fasta
- nbody
- richards
- spectralnorm
What we hope to see

- some slow iterations (ideally one)
- fast iterations
- maybe another slow one
- very fast ones, with some noise
Weird things we find in practice

- outliers
- slowdowns
- late phase changes
- cyclic behaviour
Outliers
Run Sequence fannkuch_redux:LuaJIT:default-lua
Run Sequence fasta:CPython:default-python
Slowdowns
Cyclic behaviour
Run Sequence richards:HHVM:default-php
Late phase changes
Run Sequence spectralnorm:JRubyTruffle:default-ruby
Now what?