

The speed of PyPy

Maciej Fijałkowski

merlinux GmbH

RuPy, November 7th 2009, Poznań

Story about Python's speed



Speed of Python

- Python is slow

Speed of Python

- Python is slow



Speed of Python

- Is Python really slow?

Speed of Python

- Is Python really slow?
- Sometimes

Speed of Python

- Is Python really slow?
- Sometimes
- Let's have a look at some examples

- Python - a programming language
- CPython - main implementation of Python xxx

Example run

- Float example, stolen from factor blog

	CPython	JVM (client mode)
Average of 10 runs:	7.6s	0.77s

Example run

- Float example, stolen from factor blog

	CPython	JVM (client mode)
Average of 10 runs:	7.6s	0.77s

- Python is 10x slower than Java

Example run

- Float example, stolen from factor blog

	CPython	JVM (client mode)
Average of 10 runs:	7.6s	0.77s

- Python is 10x slower than Java
- Python is 10x slower than Java on this particular benchmark

Example run

- Float example, stolen from factor blog

	CPython	JVM (client mode)
Average of 10 runs:	7.6s	0.77s

- Python is 10x slower than Java
- Python is 10x slower than Java on this particular benchmark
- CPython is 10x slower than Java on this particular benchmark

More about this example

	CPython	JVM	Psyco	PyPy
Average of 10 runs	7.6s	0.77s	4.4s	1.3s

More about this example

	CPython	JVM	Psyco	PyPy
Average of 10 runs	7.6s	0.77s	4.4s	1.3s

- So, it's CPython that is slow on this particular benchmark