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PyPy architecture session

Tuesday 4 July 2006 11:35 (30 minutes)

In this session we will present and interactively discuss with the audience the basic architectural picture of PyPy - a next generation Python compiler and interpreter. We will emphasize various emerging possibilities enabled by our architecture and ask the audience for questions.

In particular, we'll describe the following architectural pieces and point out extension and optimization possibilities:

- Language Implementation: Bytecode Interpreter and Object Space interaction
- Translation to low level languages (e.g. C/LLVM)
- Translation to higher level languages (e.g. .NET/Squeak)
- JIT-compiler architecture
- Interweaving of Garbage Collection, threading and stackless operations into the translation process

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