Steps towards ARM JITting

Lars Wassermann

Mentors: Eliot Miranda, Stefan Marr

Motivation

- Spread

- Performance

- Preparation

Steps

- ## Developing & Debugging

  CogVMSimulator

- ## ARM Compiler

  RTL Opcodes to Blobs

- ## Adapt Cogit

  ABI & LR

Things that work

- Simulator

- Plugin

    Disassembler (libopcodes)

    Emulator (ARMulator)

- Compiler

In progress (to be contd.)

- All Cogit changes

- Compiling to C

- Organisation of constants

- (Building the Plugin on Mac)

Where to find?

- vm-dev mailinglist (documentation)

  http://forum.world.st/Squeak-VM-f104410.html

- Plugin C-code and compilation instructions

  https://github.com/mas7ermind/squeakvm-armulator-plugin

- Smalltalk Code Package Cog and VMMaker.oscog

  http://source.squeak.org/VMMaker.html