JIT Tasks For Beginners

This page contains a list of small tasks to help new developers to learn JIT internals and to contribute into further development of the project.

Open Tasks

1. Improve command-line parameters handling

Problem: A lot of Jitrino.OPT algorithms use "magic numbers" or hardcoded parameters. See the example of the code with "magic numbers" in the _ vm /jitrino/src/dynopt/StaticProfiler.cpp_ file.

Task: Refactor code to make it accept parameters using the PMF framework.

2. Improve IR logging code

Problem: Jitrino.OPT uses two intermediate representations (IR) to compile methods: High-level IR and Low-level IR. These IRs use the same base package for Control Flow Graph, Nodes, Edges and Insts representation. However, due to historical reasons, the IR logging frameworks are different.

Task: Refactor and consolidate IR printing code for High and Low level IR representations.

Links

Jitrino chapter from the DRLVM developers guide

The mailing list for Harmony developers. Feel free to ask here.