Compiler Assignment 1

Group D: Herold, Jakobitsch, Lercher

Ant

The ant build file is located at /src/yapl/test/backend/sm/build-dist.xml.

Targets

Ant target	Description	Parameters to overwrite	Notes
run-backend	generate MJ bytecode	mainclass/testname (which java file to run) outfile (where to write the bytecode)	
run-mj	run MJ code with mjvm	outfile (which bytecode file to run)	depends run-backend
eval	run a single test file (generate mj and run)	mainclass/testname (which java file to run) runtimeoutput (where to write the output)	
eval-all	run all tests		depends eval
clean	remove generated files		
decode	decode generated MJ file	outfile (which bytecode file to decode)	prints output
coverage	run coverage for a single file	mainclass/testname (which java file to run)	uses JaCoCo
coverage- all	run coverage for all tests		depends coverage
cov-report	create full coverage report		depends coverage- all

Note: mainclass accepts a full classpath, while testname just requires the name of the test class under yapl.test.backend.sm.

Project Files

With the exception of tests, all new code is in yapl.impl.

BackendMJ implements BackendBinSM

- ByteUtils helper methods for byte manipulation
- Instruction enum of MJ opcodes with byte values
- OperandType enum of explicit MJ operand types (s8, s16, s32)
- Procedure represents a defined procedure. keeps track of allocated local variables

Tests are located in yapl.test.backend.sm.

Coverage

Reported coverage for yapl.impl: 100.0%

Method used

Generating coverage report for yapl.impl over all tests using Java Code Coverage (JaCoCo). See ant target cov-report.