Compiler Assignment 1

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Ant

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

Targets

Ant target	Description	Parameters to overwrite	Notes
init	creates the directory		
compile- java	compile the sources		
run-backend	generate MJ bytecode	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)	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	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

Notes:

testname just requires the name of the test class under yapl.test.backend.sm.

testname automatically updates mainclass, outfile, runtimeoutput, truefile, and coveragefile.

Project Files

With the exception of tests, all new code is in package 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 package yapl.test.backend.sm.

Coverage

Coverage was calculated with the Java Code Coverage (JaCoCo) plugin. The library is located at lib/jacocoant.jar.

The coverage report for yapl.impl is generated over all tests. See ant target cov-report.

Reported coverage for yapl.impl: 100.0%