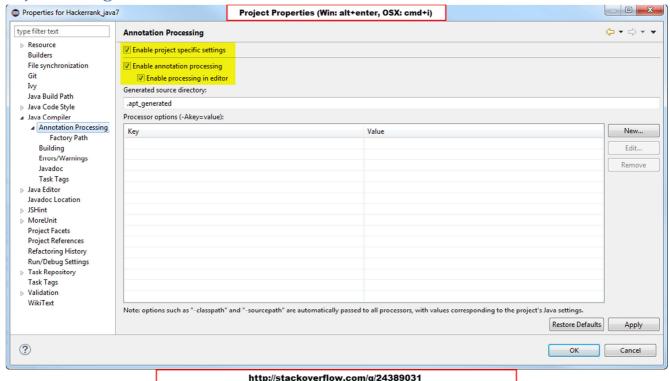
## Setup JMH to run in Eclipse

Depends on Ivy as dependency management:

## **Project settings to set:**



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▼ **Factory Path** ▶ Resource Enable project specific settings Builders File synchronization Plug-ins and JARs that contain annotation processors: Git IVY\_HOME/cache/org.openjdk.jmh/jmh-generator-annprocess/jars/jmh-generator-annprocess-1.11.2.jar Ivy IVY\_HOME/cache/org.openjdk.jmh/jmh-core/jars/jmh-core-1.11.2.jar Java Build Path Down ■ Java Compiler Add JARs. ▲ Annotation Processing Factory Path Add External JARs.. Building Errors/Warnings Add Variable. Javadoc Task Tags Edit... Java Editor Javadoc Location Advanced... ▶ MoreUnit **Project Facets** Enable All Project References Refactoring History Disable All Run/Debug Settings Task Repository Task Tags ▶ Validation WikiText Restore Defaults Apply ? Cancel

## Example Usage:

```
import java.util.ArrayList;
import java.util.List;
import java.util.Random;
import java.util.concurrent.TimeUnit;
import org.junit.Test;
import org.openjdk.jmh.annotations.Benchmark;
import org.openjdk.jmh.annotations.Level;
import org.openjdk.jmh.annotations.Mode;
import org.openjdk.jmh.annotations.Scope;
import org.openjdk.jmh.annotations.Setup;
import org.openjdk.jmh.annotations.State;
import org.openjdk.jmh.infra.Blackhole;
import org.openjdk.jmh.runner.Runner;
import org.openjdk.jmh.runner.options.Options;
import org.openjdk.jmh.runner.options.OptionsBuilder;
import org.openjdk.jmh.runner.options.TimeValue;
public class BenchmarkExample {
    @Test
    public void launchBenchmark() throws Exception {
        Options opt = new OptionsBuilder()
                .include(this.getClass().getName() + ".*")
                .mode(Mode.AverageTime).timeUnit(TimeUnit.MICROSECONDS)
                .warmupTime(TimeValue.seconds(1)).warmupIterations(2)
                .measurementTime(TimeValue.seconds(1)).measurementIterations(2)
                .threads(2).forks(1).shouldFailOnError(true).shouldDoGC(true)
                .build();
        new Runner(opt).run();
    @State(Scope.Thread)
        List<Integer> list;
        @Setup(Level.Trial)
        public void initialize() {
            Random rand = new Random();
            list = new ArrayList<>();
            while (counter > 0) {
                list.add(rand.nextInt());
    @Benchmark
    public void benchmark1(BenchmarkState state, Blackhole bh) {
        List<Integer> list = state.list;
            bh.consume(list.get(i));
```