

Situazione iniziale:

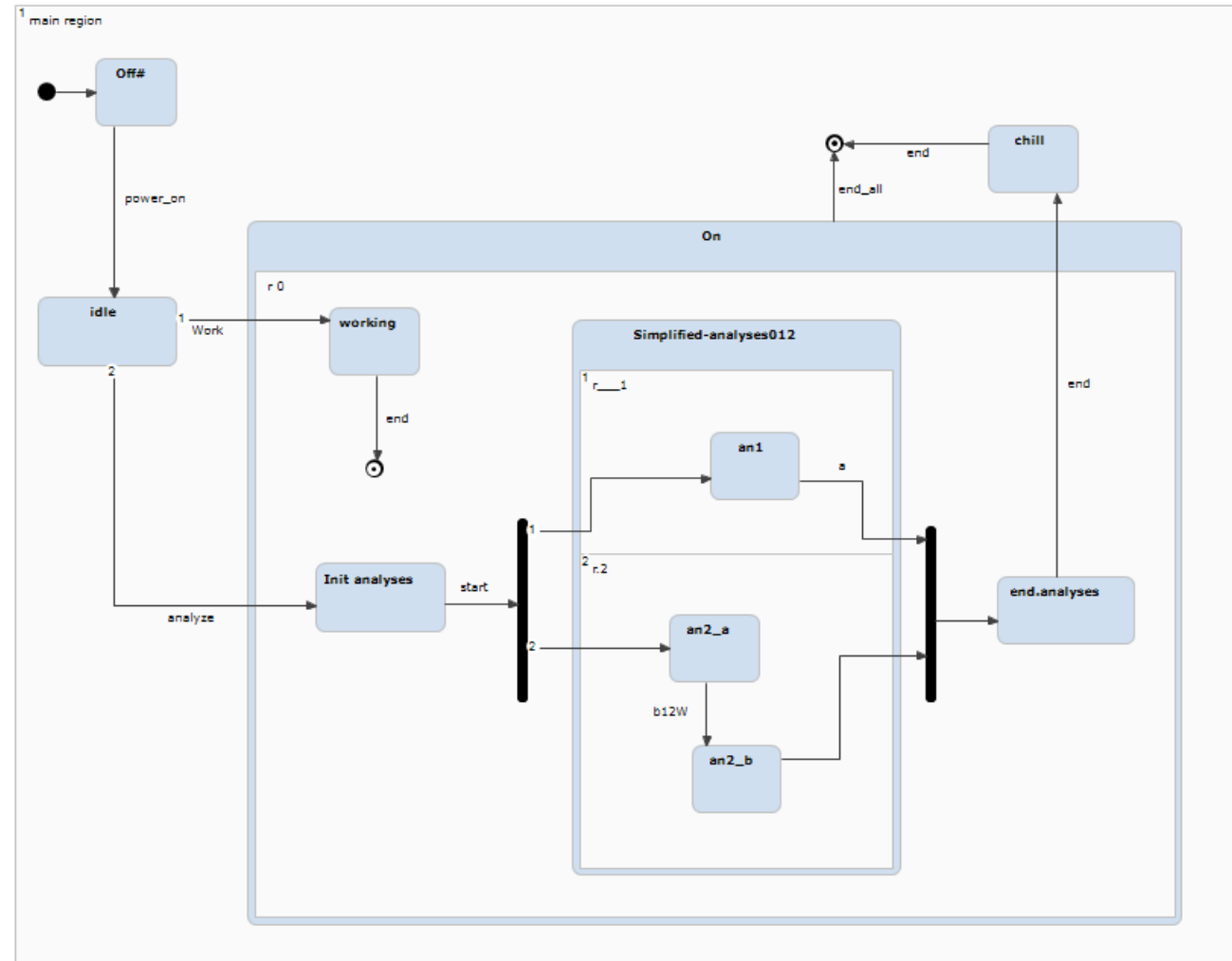
- Temp
 - src
 - JRE System Library [JavaSE-1.8]
 - JUnit 4
 - Referenced Libraries
 - models
 - sct
 - Statechart.ysc

```
ExemplStc
// Use the event driven execution
// Switch to cycle based behavior
// by specifying '@CycleBased(2)'
@EventDriven

// Use @SuperSteps(yes) to enable
// super step semantics.
@SuperSteps(no)
```

interface:

```
in event power_on
in event Work
in event analyze
in event start
in event a
in event b12W
in event end
in event end_all
in event notUsed1
in event notUsed2
in event notUsed3
in event used1
in event used2
```



Command Line Interface:

```
C:\Users\lenovo\Desktop>java -jar Ysc2SCTUnit-0.0.1.jar
```

```
-----  
Ysc2SCTUnit  
-----
```

Missing required options

usage: ysc2sctunit

-binaryDir <arg>	relative path of the (existing) directory where the binary (.class) files relative to the generated java code will be put. For example if working in a Maven project, it should be "target\classes"; default is "bin"
-h, --help	print this message
-projectPath <arg>	path of the Java project, the base path of the execution; required
-searchBudget <arg>	the search budget to impose to Evosuite, it must be a positive integer
-sourceDir <arg>	relative path of the directory where the statechart file is located; required
-sourceFile <arg>	name of the statechart file without extension, the extension can either be .ysc or .sct; required
-t, --timeService	enable the generation of a timer service for statecharts that use timed event triggers
-targetDir <arg>	relative path of the directory containing the target packages, if it is an existing source folder, it cannot have subdirectories; default is "src"
-targetPackage <arg>	target package where the .java file implementing the statechart will be placed, in dot notation; required

Esempio esecuzione da command line:

```
C:\Users\lenovo\Desktop>java -jar .\Ysc2SCTUnit-0.0.1.jar -projectPath C:\Users\lenovo\Desktop\ProgettiGit\test-generator-for-yakindu\junit-test-generation-example\Temp -sourceDir models\sct -sourceFile Statechart -targetPackage statechart -searchBudget 10
```

Warning Itemis Create:

```
-----  
SCC - itemis CREATE State Chart Compiler ((c) by itemis AG)
```

```
      Visit http://www.statecharts.org  
-----
```

```
SLF4J(W): No SLF4J providers were found.
```

```
SLF4J(W): Defaulting to no-operation (NOP) logger implementation
```

```
SLF4J(W): See https://www.slf4j.org/codes.html#noProviders for further details.
```

```
Loading models from: C:\Users\lenovo\Desktop\ProgettiGit\test-generator-for-yakindu\junit-test-generation-example\Temp\models\sct
```

```
2 base model(s) loaded. [sgen, ysc, scm, sct, sctunit]
```

```
Generating 'ExemplStc' to target 'project 'Temp' ...
```

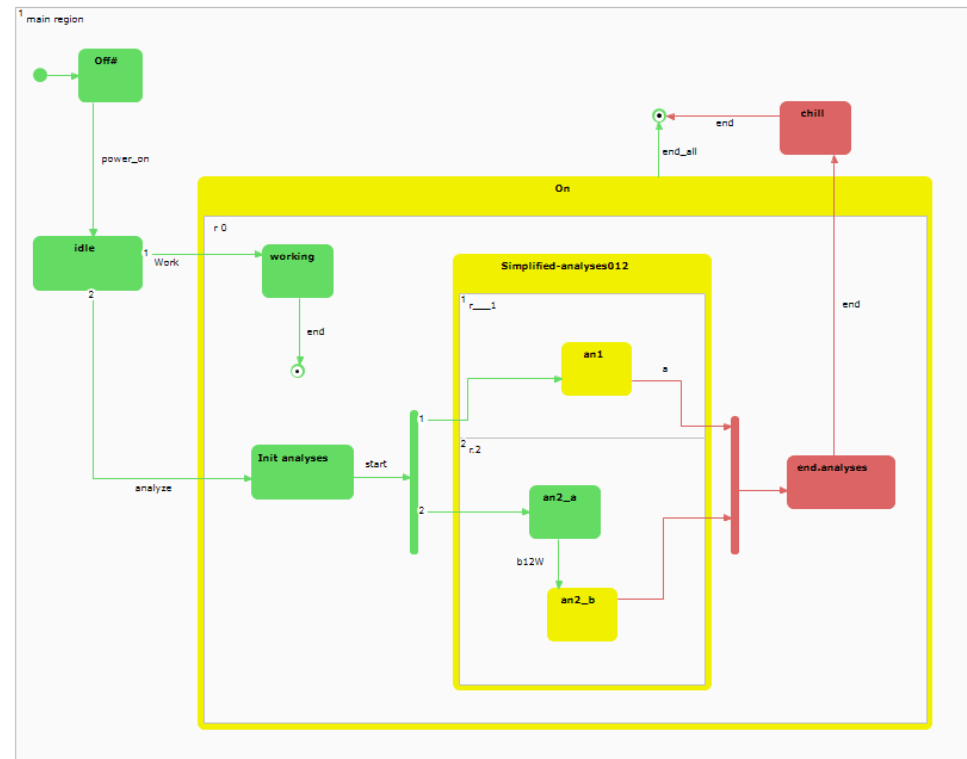
```
ExemplStc done.
```

Warnings Evosuite:

```
* Compiling and checking tests
[MASTER] 11:05:10.247 [logback-1] WARN  AgentLoader - Failed to find EvoSuite jar in current classloader. URLs of classl
oader:
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/jaccess.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/sunec.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/..lib/tools.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/access-bridge-64.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/sunjce_provider.jar
file:/C:/Users/lenovo/AppData/Local/Temp/EvoSuite_pathingJar1991670306738268436.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/nashorn.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/dnsns.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/localedata.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/jfxrt.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/sunpkcs11.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/sunmscapi.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/zipfs.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/cldrdata.jar
[MASTER] 11:05:10.262 [logback-1] WARN  JUnitAnalyzer - Found unstable test named initializationError -> class java.lang
.RuntimeException: Cannot find either the compilation target folder nor the EvoSuite jar in classpath: C:\Users\lenovo\A
ppData\Local\Temp\EvoSuite_pathingJar1991670306738268436.jar
[MASTER] 11:05:10.338 [logback-1] WARN  AgentLoader - Failed to find EvoSuite jar in current classloader. URLs of classl
oader:
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/jaccess.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/sunec.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/..lib/tools.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/access-bridge-64.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/sunjce_provider.jar
file:/C:/Users/lenovo/AppData/Local/Temp/EvoSuite_pathingJar1991670306738268436.jar
file:/C:/Program%20Files/Java/jdk1.8.0_202/jre/lib/ext/nashorn.jar
```

Situazione finale:

- Temp
 - src
 - com.yakindu.core
 - IEventDriven.java
 - IStatemachine.java
 - statechart
 - ExemplStc.java
 - ExemplStcSimplified.java
 - JRE System Library [JavaSE-1.8]
 - JUnit 4
 - Referenced Libraries
 - evosuite-tests
 - statechart
 - ExemplStcSimplified_ESTest_scaffold
 - ExemplStcSimplified_ESTest.java
 - models
 - sct
 - ExemplStc.sgen
 - ExemplStcSimplifiedTest.sctunit
 - Statechart.ysc



Runs: 42/42 Errors: 0 Failures: 0

ExemplStcTest

- test00
- test01
- test02
- test03
- test04
- test05
- test06
- test07
- test08
- test09
- test10
- test11
- test12
- test13

Failure Trace

Coverage Console

Model Element	Coverage
Statechart ExemplStc	78 % (37)
Region main region	74 % (31)
Initial State	100 % (2)
Entry -> Off# ()	100 % (1)
State Off#	100 % (2)
Off# -> idle (power_on)	100 % (1)
State idle	100 % (3)
idle -> working (Work)	100 % (1)
idle -> Init analyses (analyze)	100 % (1)
State On	71 % (21)
On -> FinalState (end_all)	100 % (1)
Region r 0	68 % (19)
State working	100 % (2)
working -> FinalState (end)	100 % (1)
State Init analyses	100 % (2)
Init analyses -> Synchron	100 % (1)
Synchronization	100 % (3)