```xml
1     <project name="jsgl" default="all" basedir=".">
2   <description>
3     JSGL Project Build File
4   </description>
5   <!-- set global properties for this build -->
6   <property name="src" location="src"/>
7   <property name="build" location="build"/>
8   <property name="lib" location="lib"/>
9   <property name="build.classes" location="${build}/classes"/>
10  <property name="build.jars" location="${build}/jars"/>
11  <property name="test" location="test"/>
12  <property name="dist" location="dist"/>
13  <property name="dist.lib" location="${dist}/lib"/>
14  <property name="jnlp" location="www/jnlp"/>
15  <property name="jnlp.web" location="/Users/jchavez/Sites/jnlp"/>
16  <property name="target.jar" value="jgsl.jar"/>
17  <property name="target_rt.jar" value="jgsl_rt.jar"/>
18  <property name="main.class" value="jgsl.JGSL"/>
19  <property name="jgsl.args" value=""/>
20  <property name="signjar.verbose" value="false"/>
21  <property name="compiler.debug" value="on"/>
22  <property name="compiler.generate.no.warnings" value="off"/>
23  <property name="compiler.args" value="-Xlint:unchecked -source 1.5"/>
24  <property name="compiler.max.memory" value="128m"/>
25
26
27  <buildnumber/>
28
29  <target name="all" depends="jgsl.javacc, dist.jnlp">
30    <echo message="Completed build of the jgsl project"/>
31
32  </target>
33
34  <target name="init">
35    <echo message="Initialize the jgsl project build"/>
36    <!-- Create the time stamp -->
37    <tstamp/>
38    <!-- Create the build directory structure used by compile -->
39    <mkdir dir="${build.classes}"/>
40    <mkdir dir="${build.jars}"/>
41    <mkdir dir="${lib}"/>
42    <mkdir dir="${dist.lib}"/>
43  </target>
44
45  <target name="compile" depends="init, jgsl.javacc, uidesigner.compile"
46        description="compiling the source">
47    <echo message="Compiling the source"/>
48    <!-- Compile the java code from ${src} into ${build} -->
```

```xml
49       <javac srcdir="${src}" destdir="${build.classes}" debug="true">
50         <include name="**/*.java"/>
51         <classpath>
52           <path location="${build.classes}"/>
53           <fileset refid="lib.jars"/>
54         </classpath>
55         <!--       <compilerarg line="-Xlint:unchecked"/>-->
56       </javac>
57       <copy todir="${build.classes}">
58         <fileset dir="${src}">
59           <exclude name="**/*.java"/>
60         </fileset>
61       </copy>
62     </target>
63
64     <fileset id="javacc.files" dir="${src}/jgsl/parser">
65       <include name="**/*.java"/>
66       <include name="**/*.jj"/>
67     </fileset>
68
69     <fileset id="build.files" dir="${build.classes}/jgsl">
70       <include name="**/*.class"/>
71       <include name="**/*.prop"/>
72     </fileset>
73
74     <fileset id="jgsl.jars" dir="${build.jars}">
75       <include name="${target.jar}"/>
76     </fileset>
77
78     <fileset id="lib.jars" dir="${lib}">
79       <include name="javassist.jar"/>
80       <include name="commons-cli-1.0.jar"/>
81       <include name="idea_forms_rt.jar"/>
82       <include name="junit.jar"/>
83       <include name="log4j-1.2.9.jar"/>
84     </fileset>
85
86     <fileset id="dist.jars" dir="${dist.lib}">
87       <include name="jgsl.jar"/>
88       <include name="javassist.jar"/>
89       <include name="commons-cli-1.0.jar"/>
90       <include name="idea_forms_rt.jar"/>
91       <include name="log4j-1.2.9.jar"/>
92     </fileset>
93
94     <fileset id="dist.files" dir="${lib}">
95       <include name="jgsl.jnlp"/>
96       <include name="commons_cli.jnlp"/>
97       <include name="idea_forms_rt.jnlp"/>
98       <include name="javassist.jnlp"/>
99       <include name="log4j.jnlp"/>
100       <include name="jgsl.ks"/>
```

```xml
101        </fileset>
102
103        <fileset id="dist.jnlp.files" dir="${dist}">
104          <include name="jgsl.jnlp"/>
105          <include name="commons_cli.jnlp"/>
106          <include name="idea_forms_rt.jnlp"/>
107          <include name="javassist.jnlp"/>
108          <include name="log4j.jnlp"/>
109        </fileset>
110
111        <target name="checkJGSLJarStatus">
112
113          <uptodate property="jgsl.jar.notRequired">
114            <srcfiles dir="${build.classes}" includes="**/*.class"/>
115            <mapper type="merge" to="${build.jars}/${target.jar}"/>
116          </uptodate>
117        </target>
118
119        <target name="jgsl.jar" depends="init, jgsl.javacc, compile.module.jgsl_ide.production, checkJGSLJarStatus"
       unless="jgsl.jar.notRequired">
120          <delete file="${build.classes}/lib/${target_rt.jar}"/>
121          <delete file="${build.classes}/lib/log4j-1.2.9.jar"/>
122          <jar jarfile="${build.jars}/${target_rt.jar}" basedir="${build.classes}">
123            <manifest>
124              <attribute name="Built-By" value="${user.name}"/>
125              <attribute name="Main-Class" value="${main.class}"/>
126            </manifest>
127            <exclude name="**/*Test.class"/>
128          </jar>
129          <copy todir="${build.classes}">
130            <fileset dir="${src}">
131              <exclude name="**/*.java"/>
132              <exclude name="**/*.txvpck"/>
133            </fileset>
134          </copy>
135          <copy todir="${build.classes}/lib">
136            <fileset dir="${build.jars}">
137              <include name="${target_rt.jar}"/>
138            </fileset>
139            <fileset dir="${lib}">
140              <include name="log4j-1.2.9.jar"/>
141            </fileset>
142          </copy>
143          <jar jarfile="${build.jars}/${target.jar}" basedir="${build.classes}">
144            <manifest>
145              <attribute name="Built-By" value="${user.name}"/>
146              <attribute name="Main-Class" value="${main.class}"/>
147            </manifest>
148            <exclude name="**/*Test.class"/>
149          </jar>
150        </target>
151
```

```xml
152    <target name="dist" depends="jgsl.jar"
153           description="generate the distribution">
154      <echo message="Generating the distribution"/>
155
156      <copy todir="${dist.lib}" verbose="true">
157        <fileset refid="lib.jars"/>
158        <fileset refid="jgsl.jars"/>
159      </copy>
160      <copy todir="${dist}" verbose="true">
161        <fileset refid="dist.files"/>
162      </copy>
163      <signjar keystore="${dist}/jgsl.ks"
164           jar="${dist.lib}/jgsl.jar"
165           alias="jgsl@perceptionsoft.com"
166           storepass="jwbh@25a" verbose="${signjar.verbose}"/>
167      <signjar keystore="${dist}/jgsl.ks"
168           jar="${dist.lib}/commons-cli-1.0.jar"
169           alias="jgsl@perceptionsoft.com"
170           storepass="jwbh@25a" verbose="${signjar.verbose}"/>
171      <signjar keystore="${dist}/jgsl.ks"
172           jar="${dist.lib}/idea_forms_rt.jar"
173           alias="jgsl@perceptionsoft.com"
174           storepass="jwbh@25a" verbose="${signjar.verbose}"/>
175      <signjar keystore="${dist}/jgsl.ks"
176           jar="${dist.lib}/javassist.jar"
177           alias="jgsl@perceptionsoft.com"
178           storepass="jwbh@25a" verbose="${signjar.verbose}"/>
179      <signjar keystore="${dist}/jgsl.ks"
180           jar="${dist.lib}/log4j-1.2.9.jar"
181           alias="jgsl@perceptionsoft.com"
182           storepass="jwbh@25a" verbose="${signjar.verbose}"/>
183    </target>
184
185    <target name="dist.jnlp" depends="dist"
186           description="generate the JNLP distribution">
187      <echo message="Generating the JNLP distribution"/>
188
189      <copy todir="${jnlp}" verbose="true">
190        <fileset refid="dist.jars"/>
191        <fileset refid="dist.jnlp.files"/>
192      </copy>
193
194    </target>
195
196    <target name="dist.jnlp.web" depends="dist.jnlp"
197           description="Copy the JNLP files to the web server directory">
198      <echo message="Copy the JNLP files to the web server directory"/>
199
200      <copy todir="${jnlp.web}" verbose="true">
201        <fileset dir="www/jnlp"/>
202      </copy>
203
```

```xml
204      </target>
205

206

207      <target name="clean"
208           description="clean project build product from ${build.classes} and ${dist.lib}">
209        <echo message="clean project build product from ${build.classes} and ${dist.lib}"/>
210

211        <delete verbose="true">
212          <fileset refid="build.files"/>
213          <fileset refid="javacc.files"/>
214          <fileset refid="jgsl.jars"/>
215          <fileset refid="dist.jars"/>
216        </delete>
217      </target>
218

219      <target name="run" depends="dist.jnlp"
220           description="Run JGSL">
221        <java classname="jgsl.JGSL"
222           fork="true"
223           failonerror="true"
224           maxmemory="128m"
225             >
226          <classpath>
227            <fileset refid="dist.jars"/>
228          </classpath>
229          <arg line="${jgsl.args}"/>
230        </java>
231      </target>
232

233      <!-- java -cp ./build/classes jgsl.parser.JGSL_Parser ./parser/simple.jgsl   -->
234      <target name="run-parser" depends="dist.jnlp"
235           description="Run the JGSL parser ">
236        <java classname="jgsl.parser.JGSL_Parser"
237           fork="true"
238           failonerror="true"
239           maxmemory="128m"
240             >
241          <classpath>
242            <fileset refid="dist.jars"/>
243          </classpath>
244          <arg line="${jgsl.args}"/>
245        </java>
246      </target>
247

248      <target name="javaccCompileStatus">
249        <uptodate property="jgsl.javacc.notRequired">
250          <srcfiles dir="parser" includes="JGSL_Parser.jj"/>
251          <mapper type="glob" from="*.jj" to="${src}/jgsl/parser/*.java"/>
252        </uptodate>
253

254      </target>
255
```

```
256    <target name="jgsl.javacc"
257          description="build JGSL the parser" depends="javaccCompileStatus" unless="jgsl.javacc.notRequired">
258      <echo message="Generating the JGSL parser"/>
259      <mkdir dir="${src}/jgsl/parser"/>
260      <!--      <antcall target="jgsl.jjtree"/>-->
261      <javacc
262          target="parser/JGSL_Parser.jj"
263          outputdirectory="${src}/jgsl/parser"
264          javacchome="${lib}"
265          />
266    </target>
267
268    <path id="uidesigner.classpath">
269      <fileset dir="${lib}">
270        <include name="idea_bcel.jar"/>
271        <include name="idea_javac2.jar"/>
272        <include name="idea_jdom.jar"/>
273      </fileset>
274    </path>
275
276    <taskdef
277          name="uidesigner"
278          classname="com.intellij.uiDesigner.ant.Javac2"
279          classpathref="uidesigner.classpath"/>
280
281    <target name="ideaGUICompileStatus">
282      <uptodate property="ideaGUI.compile.notRequired">
283        <srcfiles dir="${src}" includes="**/*.form"/>
284        <mapper type="glob" from="*.form" to="${build.classes}/*.class"/>
285      </uptodate>
286
287    </target>
288
289    <target name="uidesigner.compile" depends="ideaGUICompileStatus"
290          unless="ideaGUI.compile.notRequired"
291          description="Compile the IDEA GUI forms">
292      <echo message="Compiling the IDEA GUI designer source"/>
293      <uidesigner verbose="true" source="true" srcdir="${src}"
294            destdir="${build.classes}"
295            debug="on"
296          >
297        <src path="${src}"/>
298        <include name="**/*.form"/>
299        <classpath refid="uidesigner.classpath"/>
300        <classpath path="${build.classes}"/>
301      </uidesigner>
302    </target>
303
304    <target name="test" depends="compile">
305      <junit printsummary="yes" haltonfailure="yes">
306        <classpath>
307          <pathelement path="${build.classes}"/>
```

```
308              <fileset refid="lib.jars"/>
309              <pathelement path="${java.class.path}"/>
310          </classpath>
311
312          <formatter type="plain"/>
313
314          <batchtest fork="yes" todir="${test}">
315              <fileset dir="${src}">
316                  <include name="**/*Test.java"/>
317              </fileset>
318          </batchtest>
319      </junit>
320  </target>
321
322
323  <target name="bcel">
324      <java fork="true"
325          classname="org.apache.bcel.util.BCELifier" output="${basedir}/src/jgsl/view/swing/BaseFrameCreator.
java">
326          <arg line="${basedir}/build/classes/jgsl/view/swing/BaseFrame.class"/>
327          <classpath>
328              <path location="${build.classes}"/>
329              <fileset refid="lib.jars"/>
330          </classpath>
331
332      </java>
333
334  </target>
335
336  <!-- The task requires the following libraries from IntelliJ IDEA distribution: -->
337  <!--   javac2.jar; jdom.jar; bcel.jar -->
338  <taskdef name="javac2" classname="com.intellij.uiDesigner.ant.Javac2" classpathref="uidesigner.classpath"/
>
339
340  <property name="compiler.args.jgsl_ide" value="${compiler.args}"/>
341
342  <target name="compile.module.jgsl_ide.production" description="compile module(s) JGSL_IDE production
classes">
343      <mkdir dir="${build.classes}"/>
344      <javac2 destdir="${build.classes}" debug="${compiler.debug}" nowarn="${compiler.generate.no.
warnings}"
345          memoryMaximumSize="${compiler.max.memory}" fork="true"
346          >
347      <!--executable="${module.jdk.home.jgsl_ide}/bin/javac"-->
348      <compilerarg line="${compiler.args.jgsl_ide}"/>
349      <classpath>
350          <path location="${build.classes}"/>
351          <fileset refid="lib.jars"/>
352      </classpath>
353      <!--<classpath refid="jgsl_ide.module.classpath"/>-->
354      <src path="${src}"/>
355  </javac2>
```

```
356
357  <!--
358        <copy todir="${jgsl_ide.output.dir}">
359        <fileset dir="${module.jgsl_ide.basedir}/src">
360          <patternset refid="compiler.resources"/>
361          <type type="file"/>
362        </fileset>
363      </copy>
364  -->
365    </target>
366
367
368 </project>
369
```