Report on Identified Refactoring Opportunities for SC/ST Refactoring

Each of the identified control-fields represents an SC/ST refactoring opportunity.

Statistics on Identified Control-Fields:

- 1. No. of Classes (IPC): 185
- 2. Classes Qualified for Refactoring (QC): 12
- 3. %QC: 6.486%
- 4. No. of Fields in All Classes (IF): 905
- 5. Indentified Control Fields (CF): 16
- 6. %CF: 1.768%
- 7. No. of Control-Fields for SC Refactoring: 6
- 8. No. of Control-Fields for ST Refactoring: 10
- 9. No. of Control-Fields Associated with More Than 15 Conditional-Statements: 1
- 10. No. of Control-Fields Associated with 11 to 15 Conditional-Statements: 0
- 11. No. of Control-Fields Associated with 6 to 10 Conditional-Statements: 0
- 12. No. of Control-Fields Associated with 2 to 5 Conditional-Statements: 15

Identified Control-Fields. A control-field is denoted as <C, f>, where 'f' is a field of a class with fully-qualified name 'C'. Uses = Number of conditional-statements associated with a control-field.

Uses	Replace Type Code with Subclass (SC)	Uses	Replace Type Code with State (ST)
17	<pre><org.sunflow.core.parameterlist.floatparam< pre=""></org.sunflow.core.parameterlist.floatparam<></pre>	5	<org.sunflow.system.ui, canceled=""></org.sunflow.system.ui,>
	eter,interp>	4	<org.sunflow.core.geometry, builttess=""></org.sunflow.core.geometry,>
5	<pre><org.sunflow.core.shadingstate,< td=""><td>3</td><td><pre><org.sunflow.core.tesselatable.beziermesh,< td=""></org.sunflow.core.tesselatable.beziermesh,<></pre></td></org.sunflow.core.shadingstate,<></pre>	3	<pre><org.sunflow.core.tesselatable.beziermesh,< td=""></org.sunflow.core.tesselatable.beziermesh,<></pre>
4	<pre><org.sunflow.core.shadingstate, includelights=""></org.sunflow.core.shadingstate,></pre>	2	<org.sunflow.core.geometry, builtaccel=""></org.sunflow.core.geometry,>
3	<pre><org.sunflow.core.primitive.trianglemesh.< td=""><td></td><td><pre><org.sunflow.core.photonmap.causticphoto< td=""></org.sunflow.core.photonmap.causticphoto<></pre></td></org.sunflow.core.primitive.trianglemesh.<></pre>		<pre><org.sunflow.core.photonmap.causticphoto< td=""></org.sunflow.core.photonmap.causticphoto<></pre>
2	<org.sunflow.renderobjectmap.renderobjecthandle,type></org.sunflow.renderobjectmap.renderobjecthandle,type>	_	<pre><org.sunflow.core.texture, loaded=""> <org.sunflow.core.photonmap.globalphoton< td=""></org.sunflow.core.photonmap.globalphoton<></org.sunflow.core.texture,></pre>
	<org.sunflow.core.primitive.plane,k></org.sunflow.core.primitive.plane,k>		<pre><org.sunflow.core.shadingstate, behind=""> <org.sunflow.core.tesselatable.beziermesh,< td=""></org.sunflow.core.tesselatable.beziermesh,<></org.sunflow.core.shadingstate,></pre>
			<pre><org.sunflow.core.shader.ubershader,< td=""></org.sunflow.core.shader.ubershader,<></pre>