

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): 105
2. Classes Qualified for Refactoring (QC): 5
3. %QC: 4.762%
4. No. of Fields in All Classes (IF): 199
5. Identified Control Fields (CF): 5
6. %CF: 2.513%
7. No. of Control-Fields for SC Refactoring: 4
8. No. of Control-Fields for ST Refactoring: 1
9. No. of Control-Fields Associated with More Than 15 Conditional-Statements: 0
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: 2
12. No. of Control-Fields Associated with 2 to 5 Conditional-Statements: 3

Identified Control-Fields. A control-field is denoted as $\langle C, f \rangle$, 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)
9	$\langle \text{math.geom2d.conic.Ellipse2D}, \text{direct} \rangle$	2	$\langle \text{math.geom2d.curve.PolyCurve2D}, \text{closed} \rangle$
8	$\langle \text{math.geom2d.conic.Circle2D}, \text{direct} \rangle$		
2	$\langle \text{math.geom2d.conic.Parabola2D}, \text{debug} \rangle$		
	$\langle \text{math.geom2d.conic.HyperbolaBranch2D}, \text{positive} \rangle$		

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