

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): 41
2. Classes Qualified for Refactoring (QC): 5
3. %QC: 12.195%
4. No. of Fields in All Classes (IF): 294
5. Identified Control Fields (CF): 8
6. %CF: 2.721%
7. No. of Control-Fields for SC Refactoring: 3
8. No. of Control-Fields for ST Refactoring: 5
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: 1
12. No. of Control-Fields Associated with 2 to 5 Conditional-Statements: 7

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)
5	<de.vdheide.mp3.ID3v2ExtendedHeader, crc_present>	8	<de.vdheide.mp3.ID3v2Frame, compression>
3	<de.vdheide.mp3.ID3v2Frame, encryption_id>	2	<de.vdheide.mp3.ID3v2Header, extended_header>
2	<de.vdheide.mp3.ByteBuilder, encoding>		<de.vdheide.mp3.ID3v2Header, unsynch>
			<net.zhoufeng.ID3iconv, forcev1>
			<net.zhoufeng.ID3iconv, dry>

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