






Report on Identified Refactoring Opportunities for (SC/ST) Refactoring

The tool identifies the Control-Fields and conditional constructs (Switch/If) that use these Control-Fields to simulate the (SC / ST) refactoring. It prioritizes the Control-Fields (refactoring opportunities) based on the following criteria:

1. Number of conditional constructs that switch on Control-Field
Group i represents i different conditional constructs where the Control-Field is used
2. Average size of the conditional body
3. Number of control values
2-3 control values 
3-6 control values 
6-n control values 
4. Presence of conditional constructs with respect to the class of declaration (COD) of Control-Field
In COD (A)
Outside (B)
Mixed (C)
5. Qualified for SC or ST
6. Static Field 
7. Have subclasses already 

Input Benchmark Statistics:

No. Of Classes: 41
No. Of Primitive Fields: 88
No. Of Control-Fields for Subclass Pattern: 3
No. Of Control-Fields for State pattern: 5
Total No. Of Control-Fields: 8

Uses	Replace Type Code with Subclass (SC)	Uses	Replace Type Code with State (ST)
5	<de.vdheide.mp3.ID3v2ExtendedHeader, crc_present> (C)	8	<de.vdheide.mp3.ID3v2Frame, compression> (A)
3	<de.vdheide.mp3.ID3v2Frame, encryption_id> (A)	2	<de.vdheide.mp3.ID3v2Header, extended_header> (C)
2	<de.vdheide.mp3.ByteBuilder, encoding> (A)		<de.vdheide.mp3.ID3v2Header, unsynch> (C)
			<net.zhoufeng.ID3iconv, forcev1> (A)
			<net.zhoufeng.ID3iconv, dry> (A)

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