**Description of the software metrics**

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| Datasets | Metric | Description |
| Ant, Camel, Ivy, Jedit,  Poi, Prop, Synapse, velocity, Xalan, Xerces | WMC | Number of methods defined in a class |
| CBO | Count the number of classes coupled to class |
| RFC | Count the number of distinct methods invoke by a class in response to a received message |
| DIT | Depth of a class within the class hierarchy from the root of inheritance |
| NOC | Number of immediate descendants of a class |
| IC | Count the number of coupled ancestor classes of a class |
| CBM | Count the number of added or redefined methods those are coupled with the inherited methods |
| CA | Count the number of dependent classes for a given class |
| CE | Count the number of classes to which a class depends |
| MFA | Shows the fraction of the methods inherited by a class to the methods accessible by the functions defined in the class |
| LCOM | Subtraction of methods pairs that do not share a field to the methods pairs that do |
| LCOM3 | Counts the number of connected components in a method graph |
| CAM | Computes the cohesion among methods of a class based on the parameters list |
| MOA | Count the number of data members declared as class type |
| NPM | Number of public methods defines in a class |
| DAM | Computes the ratio of private attributes in a class |
| AMC | Shows the average method size of a class |
| LOC | Counts the total number of lines of code of a class |
| CC | Counts the number of logically independent paths in a method |
| Lucene, Mylyn, PDE\_UI, Equinox | pre, NOM\_sum, NSM\_avg, ArrayCreation, ArrayInitializer, ArrayType, CharacterLiteral, ConditionalExpression, ContinueStatement, DoStatement, FieldAccess, Javadoc, LabeledStatement, ParenthesizedExpression, PrefixExpression, QualifiedName, ReturnStatement, SuperMethodInvocation, SwitchStatement, ThisExpression, ThrowStatement | |
| Eclipse 2.0, Eclipse 2.1, and Eclipse 3.0 | Fout | Number of method calls (fan out) in a method (avg, max, total) |
| MLOC | Method lines of code in a method (avg, max, total) |
| NBD | Nested block depth in a method (avg, max, total) |
| PAR | Number of parameters in a method (avg, max, total) |
| VG | McCabe cyclomatic complexity in a method (avg, max, total) |
| NOF | Number of fields in class (avg, max, total) |
| NOM | Number of methods in a class (avg, max, total) |
| NSF | Number of static fields in a class (avg, max, total) |
| NSM | Number of static methods in a class (avg, max, total) |
| ACD | Number of anonymous type declarations in a file (avg, max, total) |
| NOI | Number of interfaces in a file (avg, max, total) |
| NOT | Number of classes in a file (avg, max, total) |
| TLOC | Total lines of code in a file (avg, max, total) |
| Activemq-5.0.0, derby-10.5.1.1, groovy-1 6 BETA 1, hbase-0.94.0, hive-0.9.0, jruby-1.1, wicket-1.3.0-beta2 | File-level | AvgCyclomatic, AvgCyclomaticModified, AvgCyclomaticStrict, AvgEssential, AvgLine, AvgLineBlank, AvgLineCode, AvgLineComment, CountDeclClass, CountDeclClassMethod, CountDeclClassVariable, CountDeclFunction, CountDeclInstanceMethod, CountDeclInstanceVariable, CountDeclMethod, CountDeclMethodDefault, CountDeclMethodPrivate, CountDeclMethodProtected,  CountDeclMethodPublic, CountLine, CountLineBlank, CountLineCode, CountLineCodeDecl, CountLineCodeExe, CountLineComment, CountSemicolon, CountStmt, CountStmtDecl, CountStmtExe, MaxCyclomatic, MaxCyclomaticModified, MaxCyclomaticStrict, RatioCommentToCode, SumCyclomatic, SumCyclomaticModified, SumCyclomaticStrict, SumEssential |
| Class-level | CountClassBase, CountClassCoupled, CountClassDerived, MaxInheritanceTree, PercentLackOfCohesion |
| Method-level | CountInput (Min, Mean, Max), CountOutput (Min, Mean, Max), CountPath (Min, Mean, Max), MaxNesting (Min, Mean, Max) |