```
< delete
```

> add

Incorrect variables

List of (Low hanging bugs)LHBs bugs related with incorrect variables:

Bug6

https://issues.apache.org/jira/browse/LANG-857

Bug59

diff -r /tmp/lang_59b/src/java/org/apache/commons/lang/text/StrBuilder.java/tmp/lang_59f/src/java/org/apache/commons/lang/text/StrBuilder.java 884c884

```
< str.getChars(0, strLen, buffer, size);
---
> str.getChars(0, width, buffer, size);
```

Bug60

diff -r /tmp/lang_60b/src/java/org/apache/commons/lang/text/StrBuilder.java/tmp/lang_60f/src/java/org/apache/commons/lang/text/StrBuilder.java 1673c1673

```
< for (int i = 0; i < thisBuf.length; i++) {
---
> for (int i = 0; i < this.size; i++) {
1730c1730</pre>
```

<	for (int i = startIndex; i < thisBuf.length; i++) {	
>	for (int i = startIndex; i < size; i++) {	
Sumr	mmary for Bug: Lang-60	
a820	vision ID (fixed version): 203b65261110c4a30ff69fe0da7a2390d82757	
Revis	vision date (fixed version): 06-10-31 23:00:54 +0000	
_	g report id: NG-295	
https:	g report url: ps://issues.apache.org/jira/browse/LANG-295	
Root - org >	ot cause in triggering tests: rg.apache.commons.lang.text.StrBuilderTest::testLang295 > junit.framework.AssertionFailedError: The contains(char) meth	od is looking beyond the
	rg.apache.commons.lang.text.StrBuilder	
	-r /tmp/chart_7b/source/org/jfree/data/time/TimePeriodValues.ja p/chart_7f/source/org/jfree/data/time/TimePeriodValues.java 0c300	
< 	long s = getDataItem(this.minMiddleIndex).getPeriod()	.getStart()
> 302c	long s = getDataItem(this.maxMiddleIndex).getPeriod().getStart()
<	long e = getDataItem(this.minMiddleIndex).getPeriod()	.getEnd()
>	long e = getDataItem(this.maxMiddleIndex).getPeriod().getEnd()
	mmary for Bug: Chart-7	
	vision ID (fixed version):	
Revis	vision date (fixed version):	

2008-06-10 02:22:11 -0700
Bug report id: UNKNOWN
Bug report url: UNKNOWN
Root cause in triggering tests: - org.jfree.data.time.junit.TimePeriodValuesTests::testGetMaxMiddleIndex> junit.framework.AssertionFailedError: expected:<1> but was:<3>
List of modified sources: - org.jfree.data.time.TimePeriodValues
Bug11 diff -r /tmp/chart_11b/source/org/jfree/chart/util/ShapeUtilities.java /tmp/chart_11f/source/org/jfree/chart/util/ShapeUtilities.java 275c275 PathIterator iterator2 = p1.getPathIterator(null); PathIterator iterator2 = p2.getPathIterator(null);
Summary for Bug: Chart-11
Revision ID (fixed version): 1025
Revision date (fixed version): 2008-06-02 00:27:30 -0700
Bug report id: 868
Bug report url: https://sourceforge.net/p/jfreechart/bugs/868
Root cause in triggering tests: - org.jfree.chart.util.junit.ShapeUtilitiesTests::testEqualGeneralPaths> junit.framework.AssertionFailedError
List of modified sources: - org.jfree.chart.util.ShapeUtilities

diff -r /tmp/chart_20b/source/org/jfree/chart/plot/ValueMarker.java /tmp/chart_20f/source/org/jfree/chart/plot/ValueMarker.java
95c95 < super(paint, stroke, paint, stroke, alpha);
· · · · · · · · · · · · · · · · · ·
> super(paint, stroke, outlinePaint, outlineStroke, alpha);
Summary for Bug: Chart-20
Revision ID (fixed version): 283
Revision date (fixed version): 2007-10-08 02:39:54 -0700
Bug report id: UNKNOWN
Bug report url: UNKNOWN
Root cause in triggering tests: - org.jfree.chart.plot.junit.ValueMarkerTests::test1808376> junit.framework.AssertionFailedError: expected: <java.awt.color[r=0,g=0,b=255]> but was:<java.awt.color[r=255,g=0,b=0]></java.awt.color[r=255,g=0,b=0]></java.awt.color[r=0,g=0,b=255]>
List of modified sources: - org.jfree.chart.plot.ValueMarker
Bug24 diff -r /tmp/chart_24b/source/org/jfree/chart/renderer/GrayPaintScale.java /tmp/chart_24f/source/org/jfree/chart/renderer/GrayPaintScale.java 126c126 < int g = (int) ((value - this.lowerBound) / (this.upperBound > int g = (int) ((v - this.lowerBound) / (this.upperBound)
Summary for Bug: Chart-24
Revision ID (fixed version): 190
Revision date (fixed version): 2007-09-26 07:00:52 -0700
Bug report id: UNKNOWN

Bug report url: UNKNOWN
Root cause in triggering tests: - org.jfree.chart.renderer.junit.GrayPaintScaleTests::testGetPaint> java.lang.lllegalArgumentException: Color parameter outside of expected range: Red Green Blue
List of modified sources: - org.jfree.chart.renderer.GrayPaintScale
Bug27 diff -r /tmp/Cli_27b/src/java/org/apache/commons/cli/OptionGroup.java /tmp/Cli_27f/src/java/org/apache/commons/cli/OptionGroup.java 98c98 < if (selected == null selected.equals(option.getOpt())) > if (selected == null selected.equals(option.getKey())) 100c100 < selected = option.getOpt();
> selected = option.getKey(); Summary for Bug: Cli-27
Revision ID (fixed version): 4c971f08861e8cefb8ca9ac20799bfdad4e973a4
Revision date (fixed version): 2009-05-30 02:31:22 +0000
Bug report id: CLI-182
Bug report url: https://issues.apache.org/jira/browse/CLI-182
Root cause in triggering tests: - org.apache.commons.cli.BasicParserTest::testOptionGroupLong> junit.framework.ComparisonFailure: selected option expected: <bar> but was:<null> - org.apache.commons.cli.GnuParserTest::testOptionGroupLong> junit.framework.ComparisonFailure: selected option expected:<bar> but was:<null> - org.apache.commons.cli.PosixParserTest::testOptionGroupLong> junit.framework.ComparisonFailure: selected option expected:<bar> but was:<null></null></bar></null></bar></null></bar>

List of modified sources:

- org.apache.commons.cli.OptionGroup
Bug4 diff -r /tmp/Closure_4b/src/com/google/javascript/rhino/jstype/NamedType.java /tmp/Closure_4f/src/com/google/javascript/rhino/jstype/NamedType.java 190c190
< if (detectImplicitPrototypeCycle()) {
> if (detectInheritanceCycle()) { 202c202
< if (detectImplicitPrototypeCycle()) {
> if (detectInheritanceCycle()) {
Summary for Bug: Closure-4
Revision ID (fixed version): efefb736fccc2039b5fb079710b3f2ac82b8c6e4
Revision date (fixed version): 2012-12-14 20:20:30 +0000
Bug report id: 873
Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is sues/issue-873.json
Root cause in triggering tests: - com.google.javascript.jscomp.TypeCheckTest::testImplementsExtendsLoop > junit.framework.AssertionFailedError: unexpected warning(s): JSC_IMPLEMENTS_NON_INTERFACE. can only implement interfaces at [testcode] line 2: 29, JSC_IMPLEMENTS_NON_INTERFACE. can only implement interfaces at [testcode] line 3: 26 expected:<1> but was:<2> - com.google.javascript.jscomp.TypeCheckTest::testImplementsLoop > junit.framework.AssertionFailedError: expected:<[Parse error. Cycle detected in inheritance chain of type T]> but was:<[can only implement interfaces]> - com.google.javascript.jscomp.TypeCheckTest::testConversionFromInterfaceToRecursiveCon structor > java.lang.StackOverflowError
List of modified sources: - com.google.javascript.rhino.jstype.NamedType

Buq14

diff -r /tmp/Closure_14b/src/com/google/javascript/jscomp/ControlFlowAnalysis.java/tmp/Closure_14f/src/com/google/javascript/jscomp/ControlFlowAnalysis.java767c767

< cfa.createEdge(fromNode, Branch.UNCOND, finallyNode);</pre>

> cfa.createEdge(fromNode, Branch.ON_EX, finallyNode);

Summary for Bug: Closure-14

Revision ID (fixed version):

4b15b25f400335b6e2820cb690430324748372f9

Revision date (fixed version): 2012-07-24 21:04:32 +0000

Bug report id:

779

.....

Bug report url:

https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is sues/issue-779.json

Root cause in triggering tests:

- com.google.javascript.jscomp.CheckMissingReturnTest::testIssue779
 - --> junit.framework.AssertionFailedError: Unexpected error(s):

JSC_MISSING_RETURN_STATEMENT. Missing return statement. Function expected to return number. at testcode line 1 : 24 expected:<0> but was:<1>

- com.google.javascript.jscomp.ControlFlowAnalysisTest::testDeepNestedFinally
- --> junit.framework.AssertionFailedError: No cross edges found
- com.google.javascript.jscomp.ControlFlowAnalysisTest::testDeepNestedBreakwithFinally
 - --> junit.framework.AssertionFailedError: No cross edges found

,

List of modified sources:

- com.google.javascript.jscomp.ControlFlowAnalysis

Bug92

diff -r /tmp/Closure_92b/src/com/google/javascript/jscomp/ProcessClosurePrimitives.java /tmp/Closure_92f/src/com/google/javascript/jscomp/ProcessClosurePrimitives.java 789c789

< int indexOfDot = namespace.indexOf('.');

> int indexOfDot = namespace.lastIndexOf('.');

Summary for Bug: Closure-92
Revision ID (fixed version): 8980b60033b1c6853cbca593ec89d3d332adf7dc
Revision date (fixed version): 2010-10-15 17:51:45 +0000
Bug report id:
Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is sues/issue-261.json
Root cause in triggering tests:
com.google.javascript.jscomp.ProcessClosurePrimitivesTest::testProvideInIndependentMod ules4
> junit.framework.AssertionFailedError:
List of modified sources: - com.google.javascript.jscomp.ProcessClosurePrimitives
Bug61 diff -r /tmp/lang_61b/src/java/org/apache/commons/lang/text/StrBuilder.java /tmp/lang_61f/src/java/org/apache/commons/lang/text/StrBuilder.java 1776c1776 int len = thisBuf.length - strLen; int len = size - strLen + 1;
Summary for Bug: Lang-61
Revision ID (fixed version): 88c76d207f642831ca899e144159424aaa60cf8e
Revision date (fixed version): 2006-10-31 22:15:00 +0000
Bug report id: LANG-294
Bug report url: https://issues.apache.org/jira/browse/LANG-294

Root cause in triggering tests: - org.apache.commons.lang.text.StrBuilderTest::testIndexOfLang294> junit.framework.AssertionFailedError: expected:<-1> but was:<6> - org.apache.commons.lang.text.StrBuilderTest::testLang294> java.lang.ArrayIndexOutOfBoundsException
List of modified sources: - org.apache.commons.lang.text.StrBuilder
==/!=
LHBs related with ==/!=:
Bug1 diff -r /tmp/chart_1b/source/org/jfree/chart/renderer/category/AbstractCategoryItemRenderer.java /tmp/chart_1f/source/org/jfree/chart/renderer/category/AbstractCategoryItemRenderer.java 1797c1797 if (dataset != null) { > if (dataset == null) {
Summary for Bug: Chart-1
Revision ID (fixed version): 2266
Revision date (fixed version): 2010-02-09 13:23:49 -0800
Bug report id: 983
Bug report url: https://sourceforge.net/p/jfreechart/bugs/983
Root cause in triggering tests: - org.jfree.chart.renderer.category.junit.AbstractCategoryItemRendererTests::test2947660> junit.framework.AssertionFailedError: expected:<1> but was:<0>

List of modified sources:

- org.jfree.chart.renderer.category.AbstractCategoryItemRenderer
<=</td
LHBs related with <=:</td
Bug62 diff -r /tmp/Closure_62b/src/com/google/javascript/jscomp/LightweightMessageFormatter.java /tmp/Closure_62f/src/com/google/javascript/jscomp/LightweightMessageFormatter.java 98c98 <
> && 0 <= charno && charno <= sourceExcerpt.length()) {
Summary for Bug: Closure-62
Revision ID (fixed version): b12d1d6489329c989b15635f6f7f06681b3f6582
Revision date (fixed version): 2011-06-28 17:08:53 +0000
Bug report id: 487
Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is sues/issue-487.json
Root cause in triggering tests:
com.google.javascript.jscomp.LightweightMessageFormatterTest::testFormatErrorSpaceEnd OfLine1> junit.framework.ComparisonFailure: expected: <ion here<="" td=""></ion>
com.google.javascript.jscomp.LightweightMessageFormatterTest::testFormatErrorSpaceEnd OfLine2> junit.framework.ComparisonFailure: expected: <iption here<="" td=""></iption>
List of modified sources: - com.google.javascript.jscomp.LightweightMessageFormatter

```
Bug73
```

```
diff -r /tmp/Closure_73b/src/com/google/javascript/jscomp/CodeGenerator.java/tmp/Closure_73f/src/com/google/javascript/jscomp/CodeGenerator.java1045c1045
```

ee8344091722c28c9351e78dcb4155fbfddfd1af

Revision date (fixed version): 2011-04-15 16:10:54 +0000

Bug report id:

416

Bug report url:

https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is sues/issue-416.json

Root cause in triggering tests:

- com.google.javascript.jscomp.CodePrinterTest::testUnicode
 - --> junit.framework.ComparisonFailure: expected:<var x="[\u007f]"> but was:<var x="[\u]">

List of modified sources:

- com.google.javascript.jscomp.CodeGenerator

<=/==

LHBs related with <=/==:

Rug22

diff -r /tmp/lang_22b/src/main/java/org/apache/commons/lang3/math/Fraction.java/tmp/lang_22f/src/main/java/org/apache/commons/lang3/math/Fraction.java 582a583,588

```
> if ((u == 0) || (v == 0)) {
> if ((u == Integer.MIN_VALUE) || (v == Integer.MIN_VALUE)) {
> throw new ArithmeticException("overflow: gcd is 2^31");
> }
> return Math.abs(u) + Math.abs(v);
> }
```

if (Math.abs(u) <= 1 || Math.abs(v) <= 1) { < if $(Math.abs(u) == 1 || Math.abs(v) == 1) {$ > Summary for Bug: Lang-22 Revision ID (fixed version): 0b2b82ad923b0455cde93286e3f504a1abd0863b Revision date (fixed version): 2011-01-17 04:30:05 +0000 Bug report id: LANG-662 Bug report url: https://issues.apache.org/jira/browse/LANG-662 Root cause in triggering tests: - org.apache.commons.lang3.math.FractionTest::testReducedFactory int int --> junit.framework.AssertionFailedError: expected:<-1073741824> but was:<-2147483648> - org.apache.commons.lang3.math.FractionTest::testReduce --> junit.framework.AssertionFailedError: expected:<-1073741824> but was:<-2147483648> List of modified sources: - org.apache.commons.lang3.math.Fraction !=/< LHBs related with !=/<: Buq19 diff -r /tmp/Compress 19b/src/main/java/org/apache/commons/compress/archivers/zip/Zip64Exten dedInformationExtraField.java /tmp/Compress 19f/src/main/java/org/apache/commons/compress/archivers/zip/Zip64Exten dedInformationExtraField.java 259c259 < if (rawCentralDirectoryData.length != expectedLength) { if (rawCentralDirectoryData.length < expectedLength) {</pre>

584c590

Summary for Bug: Compress-19

Revision ID (fixed version): e860d2f3eb16d84e146a8a700d9dbd3af01df4ba Revision date (fixed version): 2013-05-26 17:36:35 +0000 Bug report id: COMPRESS-228 Bug report url: https://issues.apache.org/jira/browse/COMPRESS-228 Root cause in triggering tests: org.apache.commons.compress.archivers.zip.ZipFileTest::testExcessDataInZip64ExtraField --> java.util.zip.ZipException: central directory zip64 extended information extra field's length doesn't match central directory data. Expected length 16 but is 28 List of modified sources: - org.apache.commons.compress.archivers.zip.Zip64ExtendedInformationExtraField ==/< LHBs related with ==/<: Bug21 diff -r /tmp/Compress_21b/src/main/java/org/apache/commons/compress/archivers/sevenz/Seven ZOutputFile.java /tmp/Compress 21f/src/main/java/org/apache/commons/compress/archivers/sevenz/SevenZ OutputFile.java 639,640c639 < --shift; < if (shift == 0) { > if (--shift < 0) { 646c645 if (length > 0 && shift > 0) { < if (shift != 7) { Summary for Bug: Compress-21

Revision ID (fixed version):

5c2d32b322fa797cf428b35c4c5998173d6403d5
Revision date (fixed version): 2013-12-20 12:13:11 +0000
Bug report id: COMPRESS-252
Bug report url: https://issues.apache.org/jira/browse/COMPRESS-252
Root cause in triggering tests:
org.apache.commons.compress.archivers.sevenz.SevenZOutputFileTest::testSevenEmptyFiles
> java.io.IOException: Unknown property 128
org.apache.commons.compress.archivers.sevenz.SevenZOutputFileTest::testEightFilesSom eNotEmpty > java.io.IOException: Badly terminated header
- org.apache.commons.compress.archivers.sevenz.SevenZOutputFileTest::testSixEmptyFiles> java.io.IOException: Badly terminated header
org.apache.commons.compress.archivers.sevenz.SevenZOutputFileTest::testEightEmptyFiles
> java.io.IOException: Unknown property 192
org.apache.commons.compress.archivers.sevenz.SevenZOutputFileTest::testNineEmptyFiles
> java.lang.ArrayIndexOutOfBoundsException: 0
org.apache.commons.compress.archivers.sevenz.SevenZOutputFileTest::testSixFilesSome NotEmpty
> java.io.IOException: Badly terminated header
org.apache.commons.compress.archivers.sevenz.SevenZOutputFileTest::testNineFilesSomeNotEmpty
> java.io.IOException: Unknown property 128
org.apache.commons.compress.archivers.sevenz.SevenZOutputFileTest::testSevenFilesSomeNotEmpty
> java.io.IOException: Unknown property 128
List of modified sources: - org.apache.commons.compress.archivers.sevenz.SevenZOutputFile

LHBs related with +-1:

Bug168

diff -r /tmp/Closure_168b/src/com/google/javascript/jscomp/TypedScopeCreator.java /tmp/Closure_168f/src/com/google/javascript/jscomp/TypedScopeCreator.java 1996c1996

```
<
     if (t.getScopeDepth() <= 2) {</pre>
     if (t.getScopeDepth() <= 1) {</pre>
Summary for Bug: Closure-168
Revision ID (fixed version):
b675d1da9d5f8b36849db4943f580969105901a4
Revision date (fixed version):
2012-08-10 19:49:41 +0000
Bug report id:
726
Bug report url:
https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is
sues/issue-726.json
Root cause in triggering tests:
- com.google.javascript.jscomp.TypeCheckTest::testIssue726
 --> junit.framework.AssertionFailedError: expected a warning
List of modified sources:

    com.google.javascript.jscomp.TypedScopeCreator
```

Bug3

diff -r /tmp/Codec_3b/src/java/org/apache/commons/codec/language/DoubleMetaphone.java/tmp/Codec_3f/src/java/org/apache/commons/codec/language/DoubleMetaphone.java455c455

Summary of configuration for Project: Codec
Script dir: /defects4j/framework Base dir: /defects4j Major root: /defects4j/major Repo dir: /defects4j/project_repos
Project ID: Codec Program: commons-codec Build file: /defects4j/framework/projects/Codec/Codec.build.xml
Vcs: Vcs::Git Repository: /defects4j/project_repos/commons-codec.git Commit db: /defects4j/framework/projects/Codec/active-bugs.csv Number of bugs: 18
Summary for Bug: Codec-3
Revision ID (fixed version): a5dfe5cbc95d7f3ce0b4829756690c2cb8439f4c
Revision date (fixed version): 2009-08-02 22:45:30 +0000
Bug report id: CODEC-84
Bug report url: https://issues.apache.org/jira/browse/CODEC-84
Root cause in triggering tests:
org.apache.commons.codec.language.DoubleMetaphone2Test::testDoubleMetaphoneAltern ate> junit.framework.ComparisonFailure: Test [19]=Angier expected: <an[j]r> but was:<an[k]r></an[k]r></an[j]r>
List of modified sources: - org.apache.commons.codec.language.DoubleMetaphone
Bug19

diff -r

 $/tmp/lang_19b/src/main/java/org/apache/commons/lang3/text/translate/NumericEntityUnescaper.java$

/tmp/lang_19f/src/main/java/org/apache/commons/lang3/text/translate/NumericEntityUnescaper.java

```
40c40
      if(input.charAt(index) == '&' && index < seqEnd - 1 && input.charAt(index + 1)
<
== '#') {
      if(input.charAt(index) == '&' && index < seqEnd - 2 && input.charAt(index + 1)
>
== '#') {
49a50,52
           if(start == seqEnd) {
>
             return 0;
           }
>
54c57,59
         while(input.charAt(end) != ';')
<
>
         while(end < seqEnd && ( (input.charAt(end) >= '0' && input.charAt(end) <= '9')
Ш
                       (input.charAt(end) >= 'a' && input.charAt(end) <= 'f') ||
>
                       (input.charAt(end) >= 'A' && input.charAt(end) <= 'F') ) )
78a84
         boolean semiNext = (end != seqEnd) && (input.charAt(end) == ';');
>
80c86
         return 2 + (end - start) + (isHex ? 1:0) + 1;
         return 2 + (end - start) + (isHex ? 1 : 0) + (semiNext ? 1 : 0);
Summary for Bug: Lang-19
Revision ID (fixed version):
0b3a8a3128890f710700d04e38df48b883d11d91
Revision date (fixed version):
2011-07-03 07:55:33 +0000
Bug report id:
LANG-710
Bug report url:
https://issues.apache.org/jira/browse/LANG-710
Root cause in triggering tests:
org.apache.commons.lang3.text.translate.NumericEntityUnescaperTest::testUnfinishedEntity
 --> java.lang.StringIndexOutOfBoundsException: String index out of range: 19
- org.apache.commons.lang3.text.translate.NumericEntityUnescaperTest::testOutOfBounds
 --> java.lang.StringIndexOutOfBoundsException: String index out of range: 7
List of modified sources:
- org.apache.commons.lang3.text.translate.NumericEntityUnescaper
```

Bug61

diff -r /tmp/lang_61b/src/java/org/apache/commons/lang/text/StrBuilder.java/tmp/lang_61f/src/java/org/apache/commons/lang/text/StrBuilder.java 1776c1776

```
<
      int len = thisBuf.length - strLen;
>
      int len = size - strLen + 1;
Summary for Bug: Lang-61
Revision ID (fixed version):
88c76d207f642831ca899e144159424aaa60cf8e
Revision date (fixed version):
2006-10-31 22:15:00 +0000
Bug report id:
LANG-294
Bug report url:
https://issues.apache.org/jira/browse/LANG-294
Root cause in triggering tests:
- org.apache.commons.lang.text.StrBuilderTest::testIndexOfLang294
 --> junit.framework.AssertionFailedError: expected:<-1> but was:<6>
- org.apache.commons.lang.text.StrBuilderTest::testLang294
 --> java.lang.ArrayIndexOutOfBoundsException
List of modified sources:
- org.apache.commons.lang.text.StrBuilder
Bug29
diff -r /tmp/Cli_29b/src/java/org/apache/commons/cli/Util.java
/tmp/Cli_29f/src/java/org/apache/commons/cli/Util.java
65,68d64
      if (str.startsWith("\""))
<
<
<
         str = str.substring(1, str.length());
<
70c66
```

if (str.endsWith("\""))

<

```
if (length > 1 && str.startsWith("\"") && str.endsWith("\"") && str.substring(1,
length - 1).indexOf("") == -1)
72c68
<
        str = str.substring(0, length - 1);
        str = str.substring(1, length - 1);
Summary for Bug: Cli-29
Revision ID (fixed version):
20002f7f4e971349a1c95dd3b05846c5b824b65c
Revision date (fixed version):
2010-06-16 08:35:18 +0000
Bug report id:
CLI-185
Bug report url:
https://issues.apache.org/jira/browse/CLI-185
Root cause in triggering tests:
- org.apache.commons.cli.UtilTest::testStripLeadingAndTrailingQuotes
 --> junit.framework.ComparisonFailure: expected:<foo "bar["]> but was:<foo "bar[]>
List of modified sources:
- org.apache.commons.cli.Util
Bug47
diff -r /tmp/Closure_47b/src/com/google/debugging/sourcemap/SourceMapConsumerV3.java
/tmp/Closure_47f/src/com/google/debugging/sourcemap/SourceMapConsumerV3.java
489,490c489,490
<
      .setLineNumber(entry.getSourceLine())
<
      .setColumnPosition(entry.getSourceColumn());
---
      .setLineNumber(entry.getSourceLine() + 1)
>
      .setColumnPosition(entry.getSourceColumn() + 1);
diff -r /tmp/Closure_47b/src/com/google/javascript/jscomp/SourceMap.java
/tmp/Closure_47f/src/com/google/javascript/jscomp/SourceMap.java
137a138,142
   int lineBaseOffset = 1;
>
    if (generator instanceof SourceMapGeneratorV1
      || generator instanceof SourceMapGeneratorV2) {
     lineBaseOffset = 0:
> }
141c146
      new FilePosition(node.getLineno(), node.getCharno()),
```

new FilePosition(node.getLineno() - lineBaseOffset, node.getCharno()), Summary for Bug: Closure-47 Revision ID (fixed version): aedce35970673f20696d5721acba13e986cc764c Revision date (fixed version): 2011-11-14 23:03:35 +0000 Bug report id: 575 Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is sues/issue-575.json Root cause in triggering tests: com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testParseSourceMetaMap --> junit.framework.AssertionFailedError: expected:<5> but was:<4> - com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testGoldenOutput0a --> junit.framework.ComparisonFailure: expected:<...t":1, - com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testMultilineMapping --> junit.framework.AssertionFailedError: expected:<10> but was:<9> com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testMultiFunctionMapping --> junit.framework.AssertionFailedError: expected:<10> but was:<9> com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testLiteralMappingsGolden

Output

- --> junit.framework.ComparisonFailure: expected:<...t":1,
- com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testMultilineMapping2
 - --> junit.framework.AssertionFailedError: expected:<10> but was:<9>

com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testBasicMappingGoldenO utput

- --> junit.framework.ComparisonFailure: expected:<...t":1,
- com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testSourceMapMerging
 - --> junit.framework.AssertionFailedError: expected:<5> but was:<4>
- com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testLiteralMappings
 - --> junit.framework.AssertionFailedError: expected:<10> but was:<9>
- com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testBasicMapping1
- --> junit.framework.AssertionFailedError: expected:<10> but was:<9>
- com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testBasicMapping2
 - --> junit.framework.AssertionFailedError: expected:<10> but was:<9>
- com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testGoldenOutput1

- --> junit.framework.ComparisonFailure: expected:<...t":1,
- com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testGoldenOutput2 --> junit.framework.ComparisonFailure: expected:<...t":1,
- com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testGoldenOutput3 --> junit.framework.ComparisonFailure: expected:<...t":1,
- com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testGoldenOutput4--> junit.framework.ComparisonFailure: expected:<...t":1,
- com.google.debugging.sourcemap.SourceMapGeneratorV3Test::testGoldenOutput5 --> junit.framework.ComparisonFailure: expected:<...

.....

List of modified sources:

- com.google.debugging.sourcemap.SourceMapConsumerV3
- com.google.javascript.jscomp.SourceMap

Bug24

diff -r

/tmp/Compress_24b/src/main/java/org/apache/commons/compress/archivers/tar/TarUtils.jav

/tmp/Compress_24f/src/main/java/org/apache/commons/compress/archivers/tar/TarUtils.java 129,136c129

```
<
       if (trailer == 0 || trailer == ' '){
<
          end--;
<
       } else {
          throw new IllegalArgumentException(
<
<
               exceptionMessage(buffer, offset, length, end-1, trailer));
<
       }
       trailer = buffer[end - 1];
<
<
       while (start < end - 1 && (trailer == 0 || trailer == ' ')) {
       while (start < end && (trailer == 0 || trailer == ' ')) {
138a132,135
       }
       if (start == end) {
          throw new IllegalArgumentException(
>
               exceptionMessage(buffer, offset, length, start, trailer));
```

Summary for Bug: Compress-24

Revision ID (fixed version):

8da377299d085b4ce1f15dbc0732232ea32e601d

Revision date (fixed version): 2014-02-21 05:20:08 +0000

Bug report id: COMPRESS-262

Bug report url: https://issues.apache.org/jira/browse/COMPRESS-262		
Root cause in triggering tests: - org.apache.commons.compress.archivers.tar.TarUtilsTest::testParseOctal> java.lang.lllegalArgumentException: Invalid byte 55 at offset 11 in '77777777777777777777777777777777777		
List of modified sources: - org.apache.commons.compress.archivers.tar.TarUtils		
Incorrect types		
List of LHBs related with incorrect types:		
Bug29 diff -r /tmp/lang_29b/src/main/java/org/apache/commons/lang3/SystemUtils.java /tmp/lang_29f/src/main/java/org/apache/commons/lang3/SystemUtils.java 1672c1672 < static float toJavaVersionInt(String version) {		
> static int toJavaVersionInt(String version) {		
Summary for Bug: Lang-29		
Revision ID (fixed version): 982e295053663787bb0396b81a8956c3c87dc25b		
Revision date (fixed version): 2010-05-28 16:33:23 +0000		
Bug report id: LANG-624		
Bug report url: https://issues.apache.org/jira/browse/LANG-624		
Root cause in triggering tests: - org.apache.commons.lang3.SystemUtilsTest::testJavaVersionAsInt> junit.framework.AssertionFailedError: expected:<0> but was:<0.0>		
List of modified sources: - org.apache.commons.lang3.SystemUtils		

Bug32 diff -r /tmp/Compress_32b/src/main/java/org/apache/commons/compress/archivers/tar/TarArchivel nputStream.java /tmp/Compress_32f/src/main/java/org/apache/commons/compress/archivers/tar/TarArchiveIn putStream.java 501c501 < currEntry.setGroupId(Integer.parseInt(val)); currEntry.setGroupId(Long.parseLong(val)); 505c505 currEntry.setUserId(Integer.parseInt(val)); < currEntry.setUserId(Long.parseLong(val)); Summary for Bug: Compress-32 Revision ID (fixed version): 3c4a09bf28e7cd600b919b8c799fbbfd19a94c0b Revision date (fixed version): 2015-05-08 19:11:27 +0000 Bug report id: COMPRESS-314 Bug report url: https://issues.apache.org/jira/browse/COMPRESS-314 Root cause in triggering tests: org.apache.commons.compress.archivers.tar.TarArchiveInputStreamTest::shouldReadBigGi --> java.lang.NumberFormatException: For input string: "4294967294"

Incorrect functions

List of modified sources:

List of LHBs related with incorrect functions:

- org.apache.commons.compress.archivers.tar.TarArchiveInputStream

diff -r /tmp/Closure_10b/src/com/google/javascript/jscomp/NodeUtil.java /tmp/Closure_10f/src/com/google/javascript/jscomp/NodeUtil.java 1417c1417 return allResultsMatch(n, MAY_BE_STRING_PREDICATE); return anyResultsMatch(n, MAY_BE_STRING_PREDICATE); Summary for Bug: Closure-10 Revision ID (fixed version): 0884a4cbef1c82153ef306477a12af0480385a35 Revision date (fixed version): 2012-09-21 17:50:43 +0000 Bug report id: 821 Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is sues/issue-821.json Root cause in triggering tests: - com.google.javascript.jscomp.PeepholeFoldConstantsTest::testIssue821 --> junit.framework.AssertionFailedError: List of modified sources: - com.google.javascript.jscomp.NodeUtil False/True

LHBs related with False/True: 1

Bua40

diff -r /tmp/Closure_40b/src/com/google/javascript/jscomp/NameAnalyzer.java /tmp/Closure_40f/src/com/google/javascript/jscomp/NameAnalyzer.java 635,636c635

```
< JsName name = getName(ns.name, false);
< if (name != null) {
---
> JsName name = getName(ns.name, true);
639d637
< }
Summary for Bug: Closure-40</pre>
```

Revision ID (fixed version): 6ebc0c3d7d4da7d2cf95f53d4ea790e89d3abc7a
Revision date (fixed version): 2012-02-02 16:47:26 +0000
Bug report id:
Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/isues/issue-284.json
Root cause in triggering tests: - com.google.javascript.jscomp.IntegrationTest::testIssue284> java.lang.RuntimeException: java.lang.RuntimeException: INTERNAL COMPILER ERROR com.google.javascript.jscomp.NameAnalyzerTest::testIssue284> junit.framework.AssertionFailedError:
List of modified sources: - com.google.javascript.jscomp.NameAnalyzer
Bug70 diff -r /tmp/Closure_70b/src/com/google/javascript/jscomp/TypedScopeCreator.java /tmp/Closure_70f/src/com/google/javascript/jscomp/TypedScopeCreator.java 1745c1745 < jsDocParameter.getJSType(), true); > jsDocParameter.getJSType(), false);
Summary for Bug: Closure-70
Revision ID (fixed version): ec4a34c2bd87ba54fa8770affdeeea4f3c42089b
Revision date (fixed version): 2011-05-20 19:48:47 +0000
Bug report id: 433
Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/isues/issue-433.json
Root cause in triggering tests:

- com.google.javascript.jscomp.LooseTypeCheckTest::testDuplicateLocalVarDecl
 - --> junit.framework.AssertionFailedError: expected:<2> but was:<1>
- -com.google.javascript.jscomp.LooseTypeCheckTest:: testFunctionArguments 13
 - --> junit.framework.AssertionFailedError: expected a warning
- com.google.javascript.jscomp.TypeCheckTest::testScoping12
 - --> junit.framework.AssertionFailedError: expected a warning
- com.google.javascript.jscomp.TypeCheckTest::testDuplicateLocalVarDecl
- --> junit.framework.AssertionFailedError: unexpected warning(s):

JSC_DUP_VAR_DECLARATION. variable x redefined with type string, original definition at [testcode] :2 with type number at [testcode] line 2 : 42 expected:<2> but was:<1>

- -com.google.javascript.jscomp.TypeCheckTest:: testFunctionArguments 13
- --> junit.framework.AssertionFailedError: expected a warning

		sour	

- com.google.javascript.jscomp.TypedScopeCreator

Bug86

diff -r /tmp/Closure_86b/src/com/google/javascript/jscomp/NodeUtil.java/tmp/Closure_86f/src/com/google/javascript/jscomp/NodeUtil.java2465c2465

< return true;

return false;

Summary for Bug: Closure-86

Revision ID (fixed version):

0907b6618a60b2de23c8f7ec2217a37dc5e9a091

Revision date (fixed version):

2010-12-18 00:47:28 +0000

Bug report id:

303

Bug report url:

https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/issue-303.json

Root cause in triggering tests:

- com.google.javascript.jscomp.NodeUtilTest::testLocalValue1
- --> junit.framework.AssertionFailedError
- com.google.javascript.jscomp.PureFunctionIdentifierTest::testLocalizedSideEffects8
- --> junit.framework.AssertionFailedError: expected:<[A]> but was:<[A, f]>
- com.google.javascript.jscomp.PureFunctionIdentifierTest::testLocalizedSideEffects9
- --> junit.framework.AssertionFailedError: expected:<[A]> but was:<[A, f]>
- $-com.google.javascript.jscomp. Pure Function Identifier Test:: test Annotation In Externs_new 4$

- --> junit.framework.AssertionFailedError: expected:<[externObjSEThis]> but was:<[externObjSEThis, NEW STRING externObjSEThisMethod]>
- com.google.javascript.jscomp.PureFunctionIdentifierTest::testAnnotationInExterns new6
- --> junit.framework.AssertionFailedError: expected:<[externObjSEThis]> but

was:<[externObjSEThis, NEW STRING externObjSEThisMethod, f]>

- com.google.javascript.jscomp.PureFunctionIdentifierTest::testIssue303b
- --> junit.framework.AssertionFailedError: expected:<[]> but was:<[NEW STRING setLocation]>
- com.google.javascript.jscomp.PureFunctionIdentifierTest::testIssue303
- --> junit.framework.AssertionFailedError: expected:<[]> but was:<[NEW STRING setLocation]>

List of modified sources:

- com.google.javascript.jscomp.NodeUtil

Bug7

diff -r /tmp/Codec 7b/src/java/org/apache/commons/codec/binary/Base64.java /tmp/Codec_7f/src/java/org/apache/commons/codec/binary/Base64.java 670c670

- return StringUtils.newStringUtf8(encodeBase64(binaryData, true)); <
- return StringUtils.newStringUtf8(encodeBase64(binaryData, false)); Summary of configuration for Project: Codec

Script dir: /defects4j/framework

Base dir: /defects4j

Major root: /defects4j/major

Repo dir: /defects4j/project_repos

Project ID: Codec

Program: commons-codec

Build file: /defects4i/framework/projects/Codec/Codec.build.xml

Vcs: Vcs::Git

Repository: /defects4j/project repos/commons-codec.git

Commit db: /defects4j/framework/projects/Codec/active-bugs.csv

Number of bugs: 18

Summary for Bug: Codec-7

Revision ID (fixed version):

954d995c5603b616c3c4a9ffb1823f36dd7ebcb0

Revision date (fixed version): 2011-01-23 05:52:42 +0000

CODEC-99
Bug report url: https://issues.apache.org/jira/browse/CODEC-99
Root cause in triggering tests: - org.apache.commons.codec.binary.Base64Test::testByteToStringVariations> junit.framework.ComparisonFailure: byteToString static Hello World expected: <sgvsbg8gv29ybgq=[]> but was:<sgvsbg8gv29ybgq=[-="" org.apache.commons.codec.binary.base64test::testrfc4648section10encod=""> junit.framework.ComparisonFailure: expected:<zg==[]> but was:<zg==[< td=""></zg==[<></zg==[]></sgvsbg8gv29ybgq=[></sgvsbg8gv29ybgq=[]>
List of modified sources: - org.apache.commons.codec.binary.Base64

Break/Continue

break;

LHBs related with Break/Continue: 1

Bug28

<

diff -r /tmp/Cli_28b/src/java/org/apache/commons/cli/Parser.java /tmp/Cli_28f/src/java/org/apache/commons/cli/Parser.java 290c290

>	continue;
Summary for I	Bug: Cli-28
Revision ID (fi 3433f4675549	xed version): 085a6bd9bf530a4810376be6fe250
2010-06-16 00	
Bug report id: CLI-201	
Bug report url:	: apache.org/jira/browse/CLI-201

Root cause in triggering tests:

- org.apache.commons.cli.ValueTest::testPropertyOptionFlags

List of modified sources: - org.apache.commons.cli.Parser	> junit.framework.AssertionFailedError	
	List of modified sources: - org.apache.commons.cli.Parser	

Same lines of code in different places

I HBs related with same lines of code in different places:

El 100 related with same lines of code in different places.
Bug13 diff -r /tmp/Closure_13b/src/com/google/javascript/jscomp/PeepholeOptimizationsPass.java /tmp/Closure_13f/src/com/google/javascript/jscomp/PeepholeOptimizationsPass.java 126d125 < traverse(c); 127a127 > traverse(c);
Summary for Bug: Closure-13
Revision ID (fixed version): d6d733f461ee5ba26e9326c1c7609f1f00d6d2db
Revision date (fixed version): 2012-08-02 17:53:06 +0000
Bug report id: 787
Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/issues/issue-787.json
Root cause in triggering tests: - com.google.javascript.jscomp.IntegrationTest::testIssue787> junit.framework.AssertionFailedError:
List of modified sources:

-com.google.javascript.jscomp. Peephole Optimizations Pass

Bug19

diff -r /tmp/Cli_19b/src/java/org/apache/commons/cli/PosixParser.java /tmp/Cli_19f/src/java/org/apache/commons/cli/PosixParser.java 232d231

tokens.add(token);

```
237d235
        tokens.add(token);
<
238a237,238
>
      tokens.add(token);
Summary for Bug: Cli-19
Revision ID (fixed version):
b1331806960001da95424315b6103d755107b519
Revision date (fixed version):
2008-07-28 08:43:28 +0000
Bug report id:
CLI-164
Bug report url:
https://issues.apache.org/jira/browse/CLI-164
Root cause in triggering tests:
- org.apache.commons.cli.PosixParserTest::testUnrecognizedOption2
 --> junit.framework.AssertionFailedError: UnrecognizedOptionException wasn't thrown
List of modified sources:
- org.apache.commons.cli.PosixParser
Bug68
diff -r /tmp/Closure_68b/src/com/google/javascript/jscomp/parsing/JsDocInfoParser.java
/tmp/Closure_68f/src/com/google/javascript/jscomp/parsing/JsDocInfoParser.java
867a868
>
            }
870d870
            }
1708a1709
> restoreLookAhead(token);
1760a1762
     restoreLookAhead(token);
Summary for Bug: Closure-68
Revision ID (fixed version):
9d5a6e3082dd99f6c44df1b3526b9e83b79aa7da
Revision date (fixed version):
2011-06-03 23:42:43 +0000
Bug report id:
```

477
Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/issues/issue-477.json
Root cause in triggering tests: - com.google.javascript.jscomp.parsing.JsDocInfoParserTest::testIssue477> junit.framework.AssertionFailedError: extra warning: Unexpected end of file
List of modified sources: - com.google.javascript.jscomp.parsing.JsDocInfoParser
Bug102 diff -r /tmp/Closure_102b/src/com/google/javascript/jscomp/Normalize.java /tmp/Closure_102f/src/com/google/javascript/jscomp/Normalize.java 88a89 > removeDuplicateDeclarations(root); 94d94 < removeDuplicateDeclarations(root);
Summary for Bug: Closure-102
Revision ID (fixed version): d48c365ba8251057a71a2e2b7aabff640209e31b
Revision date (fixed version): 2010-02-26 15:11:05 +0000
Bug report id:
Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/issues/issue-115.json
Root cause in triggering tests: - com.google.javascript.jscomp.CompilerRunnerTest::testIssue115> junit.framework.AssertionFailedError:
List of modified sources: - com.google.javascript.jscomp.Normalize

Bug41 diff -r

nputStrea /tmp/Com nputStrea 246a247	press_41f/src/main/java/org/apache/commons/compress/archivers/zip/ZipArchivel
	return null;
249c250	
< ı	return null;
	throw now ZinEvacrtica (String format/" I have acted record signature. OVO/ V"
> f sig.getVal	throw new ZipException(String.format("Unexpected record signature: 0X%X", lue()));
Summary	for Bug: Compress-41
	ID (fixed version): 79f1bc3505bc616fc7ae517cf9f60838
2016-12-0	date (fixed version): 09 23:01:42 +0100
Bug repor COMPRE	rt id:
Bug repor	
- org.apa	se in triggering tests: che.commons.compress.archivers.ZipTestCase::testListAllFilesWithNestedArchive .framework.AssertionFailedError: expected:<1> but was:<0>
dEntry	ne.commons.compress.archivers.zip.ZipArchiveInputStreamTest::testThrowOnInvali
	odified sources:

Null checking

List of LHBs related to null checking:

```
diff -r /tmp/lang_12b/src/main/java/org/apache/commons/lang3/RandomStringUtils.java
/tmp/lang_12f/src/main/java/org/apache/commons/lang3/RandomStringUtils.java
229a230,232
      if (chars != null && chars.length == 0) {
        throw new IllegalArgumentException("The chars array must not be empty");
>
231a235,237
        if (chars != null) {
>
           end = chars.length;
        } else {
>
237a244
        }
Summary for Bug: Lang-12
Revision ID (fixed version):
c9d786a4fe2639581047d878a64bab6fb24f1ab3
Revision date (fixed version):
2012-06-09 14:58:34 +0000
Bug report id:
LANG-805
Bug report url:
https://issues.apache.org/jira/browse/LANG-805
Root cause in triggering tests:
- org.apache.commons.lang3.RandomStringUtilsTest::testExceptions
 --> java.lang.ArrayIndexOutOfBoundsException: 1171399597
- org.apache.commons.lang3.RandomStringUtilsTest::testLANG805
 --> java.lang.ArrayIndexOutOfBoundsException: 1859709389
List of modified sources:
- org.apache.commons.lang3.RandomStringUtils
Bug19!!!!!!!
diff -r /tmp/chart 19b/source/org/ifree/chart/plot/CategoryPlot.java
/tmp/chart_19f/source/org/jfree/chart/plot/CategoryPlot.java
697a698,700
>
      if (axis == null) {
        throw new IllegalArgumentException("Null 'axis' argument.");
>
>
      }
972a976,978
      if (axis == null) {
>
        throw new IllegalArgumentException("Null 'axis' argument.");
>
>
      }
```

Summary for Bug: Chart-19 _____ Revision ID (fixed version): 434 Revision date (fixed version): 2007-10-25 05:56:24 -0700 Bug report id: **UNKNOWN** Bug report url: **UNKNOWN** Root cause in triggering tests: - org.jfree.chart.plot.junit.CategoryPlotTests::testGetRangeAxisIndex --> junit.framework.AssertionFailedError - org.jfree.chart.plot.junit.CategoryPlotTests::testGetDomainAxisIndex --> junit.framework.AssertionFailedError List of modified sources: - org.jfree.chart.plot.CategoryPlot Bug26 diff -r /tmp/chart 26b/source/org/jfree/chart/axis/Axis.java /tmp/chart_26f/source/org/jfree/chart/axis/Axis.java 1191a1192 if (owner != null) { 1196a1198 } Summary for Bug: Chart-26 Revision ID (fixed version): 103 Revision date (fixed version): 2007-07-06 04:03:52 -0700 _____ Bug report id: **UNKNOWN** Bug report url:

UNKNOWN

Root cause in triggering tests:

- org.jfree.chart.junit.AreaChartTests::testDrawWithNullInfo
- --> junit.framework.AssertionFailedError
- org.jfree.chart.junit.BarChart3DTests::testDrawWithNullInfo
 - --> junit.framework.AssertionFailedError
- org.jfree.chart.junit.BarChartTests::testDrawWithNullInfo
- --> junit.framework.AssertionFailedError
- org.jfree.chart.junit.GanttChartTests::testDrawWithNullInfo
 - --> junit.framework.AssertionFailedError
- org.jfree.chart.junit.GanttChartTests::testDrawWithNullInfo2
 - --> junit.framework.AssertionFailedError
- org.jfree.chart.junit.LineChart3DTests::testDrawWithNullInfo
- --> junit.framework.AssertionFailedError
- org.jfree.chart.junit.LineChartTests::testDrawWithNullInfo
- --> junit.framework.AssertionFailedError
- org.jfree.chart.junit.StackedAreaChartTests::testDrawWithNullInfo
- --> junit.framework.AssertionFailedError
- org.jfree.chart.junit.StackedBarChart3DTests::testDrawWithNullInfo
- --> junit.framework.AssertionFailedError
- org.j free.chart.junit.Stacked Bar Chart Tests:: test Draw With Null Info
 - --> junit.framework.AssertionFailedError
- org.jfree.chart.junit.WaterfallChartTests::testDrawWithNullInfo
 - --> junit.framework.AssertionFailedError
- org.jfree.chart.plot.junit.CategoryPlotTests::test1654215
- --> junit.framework.AssertionFailedError
- org.jfree.chart.plot.junit.CategoryPlotTests::testSerialization3
- --> junit.framework.AssertionFailedError
- org.jfree.chart.plot.junit.CategoryPlotTests::testSerialization4
- --> junit.framework.AssertionFailedError
- org.jfree.chart.renderer.category.junit.BoxAndWhiskerRendererTests::testDrawWithNullInfo
 - --> junit.framework.AssertionFailedError

org.jfree.chart.renderer.category.junit.GroupedStackedBarRendererTests::testDrawWithNullInfo

- --> junit.framework.AssertionFailedError
- org.jfree.chart.renderer.category.junit.IntervalBarRendererTests::testDrawWithNullInfo
 - --> junit.framework.AssertionFailedError
- org.jfree.chart.renderer.category.junit.LayeredBarRendererTests::testDrawWithNullInfo
- --> junit.framework.AssertionFailedError
- org.jfree.chart.renderer.category.junit.LevelRendererTests::testDrawWithNullInfo
- --> junit.framework.AssertionFailedError

org. j free. chart. renderer. category. junit. Min Max Category Renderer Tests:: test Draw With Null Infonce and the contraction of the contract

- --> junit.framework.AssertionFailedError
- org.jfree.chart.renderer.category.junit.StatisticalBarRendererTests::testDrawWithNullInfo
- --> junit.framework.AssertionFailedError

org.jfree.chart.renderer.category.junit.StatisticalLineAndShapeRendererTests::testDrawWith NullInfo --> junit.framework.AssertionFailedError List of modified sources: - org.jfree.chart.axis.Axis Bug2 diff -r /tmp/Closure_2b/src/com/google/javascript/jscomp/TypeCheck.java /tmp/Closure_2f/src/com/google/javascript/jscomp/TypeCheck.java 1571a1572 > if (implicitProto == null) { 1573a1575,1576 currentPropertyNames = ImmutableSet.of(); > } else { 1574a1578 **>** } Summary for Bug: Closure-2 Revision ID (fixed version): d1cfe67977d8f3aaa85ec20c262171da394d5977 Revision date (fixed version): 2012-12-22 00:16:42 +0000 Bug report id: 884 Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is sues/issue-884.json Root cause in triggering tests: com.google.javascript.jscomp. Type Check Test:: test BadInterface Extends Non Existent Interface--> java.lang.NullPointerException List of modified sources: - com.google.javascript.jscomp.TypeCheck

Bug33

diff -r /tmp/lang_33b/src/main/java/org/apache/commons/lang3/ClassUtils.java/tmp/lang_33f/src/main/java/org/apache/commons/lang3/ClassUtils.java

```
910c910
<
       classes[i] = array[i].getClass();
       classes[i] = array[i] == null ? null : array[i].getClass();
>
Summary for Bug: Lang-33
Revision ID (fixed version):
0603aef594fa60126c2d45f2ab164eee39f7b44c
Revision date (fixed version):
2010-02-05 21:31:38 +0000
Bug report id:
LANG-587
Bug report url:
https://issues.apache.org/jira/browse/LANG-587
_____
Root cause in triggering tests:
- org.apache.commons.lang3.ClassUtilsTest::testToClass_object
 --> java.lang.NullPointerException
_____
List of modified sources:
- org.apache.commons.lang3.ClassUtils
_____
Bug39
diff -r /tmp/lang 39b/src/java/org/apache/commons/lang3/StringUtils.java
/tmp/lang_39f/src/java/org/apache/commons/lang3/StringUtils.java
3675a3676,3678
       if (searchList[i] == null || replacementList[i] == null) {
>
          continue;
>
       }
Summary for Bug: Lang-39
Revision ID (fixed version):
cb40e35f5e0990fad4c5278964fcc24e112dde8c
Revision date (fixed version):
2009-12-14 07:51:05 +0000
Bug report id:
LANG-552
Bug report url:
```

https://issues.apache.org/jira/browse/LANG-552
Root cause in triggering tests: - org.apache.commons.lang3.StringUtilsTest::testReplace_StringStringArrayStringArra> java.lang.NullPointerException
List of modified sources: - org.apache.commons.lang3.StringUtils
Bug47 diff -r /tmp/lang_47b/src/java/org/apache/commons/lang/text/StrBuilder.java /tmp/lang_47f/src/java/org/apache/commons/lang/text/StrBuilder.java 1185a1186,1188 > if (str == null) { > str = ""; > } 1229a1233,1235 > if (str == null) { > str = "";
> } Summary for Bug: Lang-47
Revision ID (fixed version): d5e343049c2610c31ddacb24f0d173942f6d5ac9
Revision date (fixed version): 2008-02-13 05:44:46 +0000
Bug report id: LANG-412
Bug report url: https://issues.apache.org/jira/browse/LANG-412
Root cause in triggering tests: - org.apache.commons.lang.text.StrBuilderTest::testLang412Left> java.lang.NullPointerException - org.apache.commons.lang.text.StrBuilderTest::testLang412Right> java.lang.NullPointerException
List of modified sources: - org.apache.commons.lang.text.StrBuilder

diff -r /tmp/Closure_20b/src/com/google/javascript/jscomp/PeepholeSubstituteAlternateSyntax.java /tmp/Closure_20f/src/com/google/javascript/jscomp/PeepholeSubstituteAlternateSyntax.java 220c220,221 < if (value != null) { if (value != null && value.getNext() == null && NodeUtil.isImmutableValue(value)) { Summary for Bug: Closure-20 Revision ID (fixed version): ebf229b05f4ee71bc05d70830f5dd5683271d661 Revision date (fixed version): 2012-06-21 22:45:36 +0000 Bug report id: 759 Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is sues/issue-759.json Root cause in triggering tests: com.google.javascript.jscomp. Peephole Substitute Alternate Syntax Test:: test Simple Function Compared to the compared to t--> junit.framework.AssertionFailedError: List of modified sources: - com.google.javascript.jscomp.PeepholeSubstituteAlternateSyntax Bug36 diff -r /tmp/Closure 36b/src/com/google/javascript/jscomp/InlineVariables.java /tmp/Closure_36f/src/com/google/javascript/jscomp/InlineVariables.java 574a575,577 if (convention.getSingletonGetterClassName(callNode) != null) { return false; > } Summary for Bug: Closure-36 Revision ID (fixed version): be397ee0d0be2aad8f71d12f097b17563866445a

Revision date (fixed version):

2012-02-29 05:56:20 +0000
Bug report id: 668
Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is sues/issue-668.json
Root cause in triggering tests: - com.google.javascript.jscomp.IntegrationTest::testSingletonGetter1> junit.framework.AssertionFailedError:
List of modified sources: - com.google.javascript.jscomp.InlineVariables
Bug50 diff -r /tmp/Closure_50b/src/com/google/javascript/jscomp/PeepholeReplaceKnownMethods.java /tmp/Closure_50f/src/com/google/javascript/jscomp/PeepholeReplaceKnownMethods.java 376c376 if (!NodeUtil.isImmutableValue(right)) { if (right.getNext() != null !NodeUtil.isImmutableValue(right)) { 388a389,390 if (right != null && right.getType() == Token.STRING && ",".equals(right.getString())) { 389a392,394 n.removeChild(right); reportCodeChange(); }
Summary for Bug: Closure-50
Revision ID (fixed version): c3b630fc9c2a1c4eb7cb718f8d324bfb306cb9df
Revision date (fixed version): 2011-10-28 19:55:05 +0000
Bug report id: 558
Bug report url: https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is sues/issue-558.json

Root cause in triggering tests:

- com.google.javascript.jscomp.PeepholeReplaceKnownMethodsTest::testStringJoinAdd
 junit.framework.AssertionFailedError:
- com.google.javascript.jscomp.PeepholeReplaceKnownMethodsTest::testNoStringJoin--> junit.framework.AssertionFailedError:

List of modified sources:

- com.google.javascript.jscomp.PeepholeReplaceKnownMethods

.----

Bug34

diff -r /tmp/lang_34b/src/main/java/org/apache/commons/lang3/builder/ToStringStyle.java/tmp/lang_34f/src/main/java/org/apache/commons/lang3/builder/ToStringStyle.java148c148

< return REGISTRY.get() != null ? REGISTRY.get() : Collections.<Object,
Object>emptyMap();

> return REGISTRY.get();

164c164

< return m.containsKey(value);</pre>

return m != null && m.containsKey(value);

Root cause in triggering tests:

- org.apache.commons.lang3.builder.ToStringBuilderTest::testObjectCycle
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionHierarchy
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}

org.apache.commons.lang3.builder.ToStringBuilderTest::testSelfInstanceTwoVarsReflection ObjectCycle

- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org. a pache. commons. lang 3. builder. To String Builder Test:: test Reflection Array Cycle
- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}

- org. a pache. commons. lang 3. builder. To String Builder Test:: test Reflection Long Array Array
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org. apache. commons. lang 3. builder. To String Builder Test:: test Reflection Array Array Cycle
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionFloatArray
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionDoubleArrayArray
- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org. a pache. commons. lang 3. builder. To String Builder Test:: test Reflection Boolean Array
- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionyteArray
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionDoubleArray
- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionIntArrayArray
- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionLongArray
- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionhortArrayArray
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionObjectArray
- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionObjectCycle
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionBooleanArrayArray
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testSimpleReflectionObjectCycle
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionByteArrayArray
- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionArrayCycleLevel2
- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}

org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionArrayAndObjectCycle

- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionCharArrayArray
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionShortArray
- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}

org.apache.commons.lang3.builder.ToStringBuilderTest::testSelfInstanceVarReflectionObject Cycle

- --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionIntArray
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionCharArray
 - --> junit.framework.AssertionFailedError: Expected: <null> but was: {}
- org.apache.commons.lang3.builder.ToStringBuilderTest::testReflectionFloatArrayArray

```
--> junit.framework.AssertionFailedError: Expected: <null> but was: {}
List of modified sources:
- org.apache.commons.lang3.builder.ToStringStyle
Bug105
diff -r /tmp/Closure 105b/src/com/google/javascript/jscomp/FoldConstants.java
/tmp/Closure_105f/src/com/google/javascript/jscomp/FoldConstants.java
1477c1477
< StringBuilder sb = new StringBuilder();
    StringBuilder sb = null;
1483c1483,1485
<
      if (sb.length() > 0) {
      if (sb == null) {
       sb = new StringBuilder();
>
      } else {
1488c1490
      if (sb.length() > 0) {
      if (sb != null) {
1492c1494
<
       sb = new StringBuilder();
>
        sb = null;
1500c1502
    if (sb.length() > 0) {
> if (sb != null) {
Summary for Bug: Closure-105
Revision ID (fixed version):
113a08f59e8116fb11a7d4ceb11d5bb09b74ac3c
Revision date (fixed version):
2010-02-09 21:33:10 +0000
Bug report id:
106
Bug report url:
https://storage.googleapis.com/google-code-archive/v2/code.google.com/closure-compiler/is
sues/issue-106.json
```

Root cause in triggering tests:

 com.google.javascript.jscomp.FoldConstantsTest::testStringJoinAdd > junit.framework.AssertionFailedError:
List of modified sources: - com.google.javascript.jscomp.FoldConstants
Bug15 diff -r /tmp/chart_15b/source/org/jfree/chart/plot/PiePlot.java /tmp/chart_15f/source/org/jfree/chart/plot/PiePlot.java 1377a1378,1380 > if (this.dataset == null) { > return 0.0; > } 2050a2054 > if (this.dataset != null) { 2052a2057 > } Summary for Rug: Chart 15
Summary for Bug: Chart-15
Revision ID (fixed version): 749
Revision date (fixed version): 2008-03-19 13:42:01 -0700
Bug report id: UNKNOWN
Bug report url: UNKNOWN
Root cause in triggering tests: - org.jfree.chart.plot.junit.PiePlot3DTests::testDrawWithNullDataset> junit.framework.AssertionFailedError
List of modified sources: - org.jfree.chart.plot.PiePlot

List of other LHBs that do not fit the previous points:

Bug51

diff -r /tmp/lang_51b/src/java/org/apache/commons/lang/BooleanUtils.java/tmp/lang_51f/src/java/org/apache/commons/lang/BooleanUtils.java 681a682

return false; Summary for Bug: Lang-51 Revision ID (fixed version): a5589b39e985e64861bd920aa7b13ab32c215b06 Revision date (fixed version): 2007-10-27 05:07:45 +0000 Bug report id: LANG-365 Bug report url: https://issues.apache.org/jira/browse/LANG-365 ______ Root cause in triggering tests: - org.apache.commons.lang.BooleanUtilsTest::test_toBoolean_String --> java.lang.StringIndexOutOfBoundsException: String index out of range: 3 List of modified sources: - org.apache.commons.lang.BooleanUtils ______ Bug53 diff -r /tmp/lang 53b/src/java/org/apache/commons/lang/time/DateUtils.java /tmp/lang_53f/src/java/org/apache/commons/lang/time/DateUtils.java 642a643 } 645d645 } 651a652 > } 654d654 } Bug3 diff -r /tmp/Cli 3b/src/java/org/apache/commons/cli/TypeHandler.java /tmp/Cli_3f/src/java/org/apache/commons/cli/TypeHandler.java

162c161,171 < return NumberUtils.createNumber(str);

< import org.apache.commons.lang.math.NumberUtils;

25d24

```
>
         if( str != null )
>
           if( str.indexOf('.') != -1 )
>
>
              return Double.valueOf(str);
           else
           {
>
              return Long.valueOf(str);
           }
         }
Summary for Bug: Cli-3
Revision ID (fixed version):
d35f2fa7a06457469a617677eeb4c1dc21484006
Revision date (fixed version):
2007-05-28 07:54:52 +0000
Bug report id:
cli-1
Bug report url:
https://issues.apache.org/jira/browse/CLI-1
Root cause in triggering tests:
- org.apache.commons.cli.PatternOptionBuilderTest::testSimplePattern
 --> junit.framework.AssertionFailedError: number flag n expected:<4.5> but was:<4.5>
List of modified sources:
- org.apache.commons.cli.TypeHandler
Bug17
diff -r /tmp/Cli_17b/src/java/org/apache/commons/cli/PosixParser.java
/tmp/Cli_17f/src/java/org/apache/commons/cli/PosixParser.java
302a303
>
           break;
Summary for Bug: Cli-17
Revision ID (fixed version):
9c5ce3501938cff01d78b7a1fff10a60abe9e0cf
```

Revision date (fixed version):

2008-07-27 23:38:21 +0000
Bug report id: CLI-163
Bug report url: https://issues.apache.org/jira/browse/CLI-163
Root cause in triggering tests: - org.apache.commons.cli.PosixParserTest::testStopBursting> junit.framework.AssertionFailedError: Confirm 1 extra arg: 2
List of modified sources: - org.apache.commons.cli.PosixParser