Results for False Positives and False Negatives Analysis

False Positives

Numbers by Merge Scenarios

	project	mergeSce	narios fpOrderingMe	rgeScenarios RatePercentual
1	Mybatis-3	291	0	0.00
2	Lottie-android	5	0	0.00
3	Fastjson	351	25	7.12
4	Hystrix	628	4	0.64
5	Storm	272	6	2.21
6	Vert.x-Core	595	9	1.51
7	Presto	7	0	0.00
8	Javaee7-samples	261	3	1.15
9	MEAN			1.58
10	STANDARD DEVIATI	ON		2.38

Unstructured Merge Added False Positives by Merge Scenarios

Г	project	mergeSc	enarios fpRenamingM	lergeScenarios RatePercentual
1	Mybatis-3	291	1	0.34
2	Lottie-android	5	0	0.00
3	Fastjson	351	4	1.14
4	Hystrix	628	1	0.16
5	Storm	272	1	0.37
6	Vert.x-Core	595	0	0.00
7	Presto	7	0	0.00
8	Javaee7-samples	261	1	0.38
9	MEAN			0.30
10	STANDARD DEVIATI	ON		0.38

Semistructured Merge Added False Positives by Merge Scenarios

Numbers by Conflict

project	textualConf	Unmerge fpOrderin	gConf RatePercentual
1 Mybatis-3	7	0	0
2 Lottie-android	0	0	
3 Fastjson	394	100	25
4 Hystrix	49	8	16
5 Storm	56	23	41
6 Vert.x-Core	17	12	71
7 Presto	0	0	
8 Javaee7-samples	9	6	67
9 MEAN			37
10 STANDARD DEVIAT	ION		28

Unstructured Merge Added False Positives by Conflicts

Г	project	textual	ConfSsmerge fpRenamir	ngConf RatePercentual
1	Mybatis-3	4	3	75.0
2	Lottie-android	0	0	NaN
3	Fastjson	59	5	8.5
4	Hystrix	40	6	15.0
5	Storm	8	3	37.5
6	Vert.x-Core	1	0	0.0
7	Presto	0	0	NaN
8	Javaee7-samples	2	2	100.0
9	MEAN			39.3
10	STANDARD DEVIATION	ON		40.1

Semistructured Merge Added False Positives by Conflicts

False Negatives

Numbers by Merge Scenario

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			project	mergeSce	narios fnDuplicationN	TergeScenarios RatePercer	ntual	
		1 M	fybatis-3	291	0	0		
		2 L	ottie-android	5	0	0		
		3 Fa	astjson	351	0	0		
		4 H	lystrix	628	0	0		
		5 S	torm	272	0	0		
		6 V	ert.x-Core	595	0	0		
		7 P	resto	7	0	0		
			avaee7-samples	261	0	0		
		1.	IEAN			0		
		10 S	TANDARD DEVIAT	ION		0		
project	mergeScer	narios fnImport	tMergeScenarios	fnNewArtRef0	OldOneMergeScnarios	fnAnonymousMergeScnar	ios fnAcidental	Scenarios RatePerce
			-		OldOneMergeScnarios			
1 Mybatis-3	291	0	-	fnNewArtRef0	oldOneMergeScnarios	0	4	1.37
1 Mybatis-3 Lottie- android	291 5	0	-		OldOneMergeScnarios		4 0	1.37 0.00
1 Mybatis-3 2 Lottie- android 3 Fastjson	291 5 351	0 0 0	-		oldOneMergeScnarios	0	4 0 29	1.37 0.00 8.26
1 Mybatis-3 Lottie- android 3 Fastjson 4 Hystrix	291 5 351 628	0	-		oldOneMergeScnarios	0	4 0	1.37 0.00 8.26 0.96
1 Mybatis-3 Lottie- android 3 Fastjson 4 Hystrix 5 Storm	291 5 351 628 272	0 0 0 0	-		OldOneMergeScnarios	0	4 0 29	1.37 0.00 8.26 0.96 2.21
1 Mybatis-3 Lottie- android 3 Fastjson 4 Hystrix 5 Storm 6 Vert.x-Core	291 5 351 628 272 595	0 0 0 0 0	-		OldOneMergeScnarios	0	4 0 29	1.37 0.00 8.26 0.96 2.21 0.67
1 Mybatis-3 Lottie- android 3 Fastjson 4 Hystrix 5 Storm 6 Vert.x-Core 7 Presto	291 5 351 628 272	0 0 0 0	-		OldOneMergeScnarios	0	4 0 29	1.37 0.00 8.26 0.96 2.21
1 Mybatis-3 Lottie- android 3 Fastjson 4 Hystrix 5 Storm 6 Vert.x-Core 7 Presto 8 Javaee7- samples	291 5 351 628 272 595	0 0 0 0 0			OldOneMergeScnarios	0	4 0 29	1.37 0.00 8.26 0.96 2.21 0.67
1 Mybatis-3 Lottie- android 3 Fastjson 4 Hystrix 5 Storm 6 Vert.x-Core 7 Presto Javaee7-	291 5 351 628 272 595 7 261	0 0 0 0 0 0		0 0 0 0 0 0 0	OldOneMergeScnarios	0 0 0 0 0 0 0	4 0 29 6 6 4 0	1.37 0.00 8.26 0.96 2.21 0.67 0.00

Numbers by Conflict

	project	textual(ConfUnmerge fnDuplica	ationMissed RateI	Percentual	
	1 Mybatis-3	7	0	0		
	2 Lottie-android	0	0			
	3 Fastjson	394	0	0		
	4 Hystrix	49	0	0		
	5 Storm	56	0	0		
	6 Vert.x-Core	17	0	0		
	7 Presto	0	0			
	8 Javaee7-samples	9	0	0		
	9 MEAN			0		
	10 STANDARD DEVIAT	TION		0		
	Unst	ructured Merc	re Added False Negatives	by Conflicts		
	Unst	ructured Mero	ge Added False Negatives	by Conflicts		
			-			
project	textualConfSsmerg	ge fnImportM	lissed fnNewArtRefOld	OneConf fnAnony		
1 Mybatis-3	textualConfSsmerg	ge fnImportM	Iissed fnNewArtRefOld		4	ental RatePercentu 50
1 Mybatis-3 2 Lottie-android	textualConfSsmerg 4 0	ge fnImportM	lissed fnNewArtRefOld	OneConf fnAnony	4 0	50
1 Mybatis-3 2 Lottie-android 3 Fastjson	textualConfSsmerg 4 0 59	ge fnImportM	Iissed fnNewArtRefOld	OneConf fnAnony	4 0 237	50 80
1 Mybatis-3 2 Lottie-android 3 Fastjson 4 Hystrix	textualConfSsmerg 4 0	ge fnImportM	Iissed fnNewArtRefOld	OneConf fnAnony	4 0	50
1 Mybatis-3 2 Lottie-android 3 Fastjson	textualConfSsmerg 4 0 59	ge fnImportM 0 0 0	Iissed fnNewArtRefOld	OneConf fnAnony 0 0 0	4 0 237	50 80
1 Mybatis-3 2 Lottie-android 3 Fastjson 4 Hystrix	textualConfSsmerg 4 0 59 40	ge fnImportM 0 0 0	Iissed fnNewArtRefOld	OneConf fnAnony 0 0 0	4 0 237 19	50 80 32
1 Mybatis-3 2 Lottie-android 3 Fastjson 4 Hystrix 5 Storm	textualConfSsmerg 4 0 59 40	ge fnImportM 0 0 0	Iissed fnNewArtRefOld	OneConf fnAnony 0 0 0	4 0 237 19	50 80 32 76
1 Mybatis-3 2 Lottie-android 3 Fastjson 4 Hystrix 5 Storm 6 Vert.x-Core	textualConfSsmerg 4 0 59 40 8 1	ge fnImportM 0 0 0 0 0 0	Iissed fnNewArtRefOld 0 0 0 0 0 0 0	OneConf fnAnony 0 0 0 0 0 0 0 0	4 0 237 19 26 4	50 80 32 76

Semistructured Merge Added False Negatives by Conflicts

Plots

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