

Project	Merge Commit	Class Name	Method or field declaration changed by the two merged branches	Original Sample	Lines in the merge commit with changes made by left	Lines in the merge commit with changes made by right	Manual build?	Locally Observable Interference	Manual analysis of OA	OA Inter	OA Intra
antlr4	69ff2669eec265e25721dbc27cb00f6c381d0b41	org.antlr.v4.codegen.target.Python2Target	python2Keywords	Leuson	[64]	[53]	Yes	TRUE	TRUE	FALSE	FALSE
antlr4	69ff2669eec265e25721dbc27cb00f6c381d0b41	org.antlr.v4.codegen.target.Python3Target	python3Keywords	Leuson	[64]	[53]	Yes	TRUE	TRUE	FALSE	FALSE
druid	05168808c278c080c59c19e858d9471b316cd1f5	com.metamx.druid.loading.S3SegmentPusher	push(File, DataSegment)	Roberto	[66, 118, 139, 110]	[105, 125]	No	FALSE	FALSE	FALSE	FALSE
netty	193acdb36cd3da9bfc62dd69c4208dff3f0a2b1b	org.jboss.netty.handler.codec.frame.LengthFieldBasedFrameDecoder	decode (ChannelHandlerContext, Channel, ChannelBuffer)	Roberto	[358, 360]	[322, 374]	Yes	TRUE	FALSE	FALSE	FALSE
OpenTripPlanner	4c506dce43775704919d084f0acfba86d251bf4a	org.opentripplanner.routing.spt.MultiShortestPathTree	dominates (State, State)	Roberto	[144, 146, 147, 148, 149, 152, 141]	[123]	Yes	TRUE	FALSE	timeout	FALSE
webbit	74d2d2b87704d003acacb34e4ca8fb5f897b938f	org.webbitserver.netty.WebSocketClient	adjustPipelineToWebSocket (ChannelHandlerContext, MessageEvent, ChannelHandler)	Mining	[260]	[262]	Yes	FALSE	FALSE	FALSE	FALSE
resty-gwt	867b917c43c32acbdcac5576e7f04334006c866	org.fusesource.restygwt.rebind.DirectRestServiceInterfaceClassCreator	getMethodCallback(JMethod)	Guilherme	[83, 84, 85]	[86, 87, 88, 89, 90, 91]	Yes	TRUE	FALSE	FALSE	FALSE
storm	ad2be678831b3b060229fd936e3908110162b7ac	org.apache.storm.kafka.spout.KafkaSpoutConfig	toString()	Leuson	[]	[515, 516, 521, 522]	Yes	TRUE	TRUE	FALSE	FALSE
storm	bd1f5c54752f67b484a83c26667331234234d3a3	org.apache.storm.kafka.spout.KafkaSpout	emitTupleIfNotEmitted (ConsumerRecord<K,V>)	Leuson	[305, 306, 307, 312]	[316, 319]	Yes	FALSE	FALSE	FALSE	FALSE
swagger-maven-plugin	e825a7fdc6ef688f1253b93d2cb236e710acfc56	com.github.kongchen.swagger.docgen.reader.AbstractReader	hasValidAnnotations (List<Annotation>)	Guilherme	[342, 343]	[342]	Yes	TRUE	TRUE	TRUE	TRUE
jsoup	a8b6982de98ff76ef254031d7152fff57f6bf941	org.jsoup.helper.HttpConnection	execute (Connection. Request, Response)	Roberto	[584, 585, 586]	[544, 547]	No	TRUE	FALSE	FALSE	FALSE
jsoup	fee4762322f85a1109edd75ccb67f38cf5008c80	org.jsoup.helper.HttpConnection	createConnection(Connection. Request)	Guilherme	[609, 610, 611, 612, 613, 614]	[617]	No	FALSE	FALSE	FALSE	FALSE
jsoup	3f7d2c71dbbbb289c684f339874eed8ac2747fa0	org.jsoup.helper.HttpConnection	execute (Connection. Request, Response)	Roberto	[456]	[483, 484, 485]	No	TRUE	FALSE	FALSE	FALSE
jsoup	a44e18aa3c1fcd25a68a5965f9490d8f7d026509	org.jsoup.nodes.TextNode	outerHtmlHead (StringBuilder, int, Document, OutputSettings)	Roberto	[94]	[98]	Yes	TRUE	FALSE	FALSE	FALSE
retrofit	2b6c719c6645f8e48dca6d0047c752069d321bc4	retrofit.RestAdapter	logAndReplaceResponse (String, Response, long)	DeSouza	[438]	[415]	No	FALSE	TRUE	FALSE	TRUE
retrofit	2b6c719c6645f8e48dca6d0047c752069d321bc4	retrofit.RestAdapter	logAndReplaceRequest (Request)	DeSouza	[398]	[369]	No	TRUE	TRUE	FALSE	TRUE
retrofit	71f622ce51031b152a0be6ad5facfb27a654bf5a	retrofit.RequestBuilder	build()	Roberto	[88]	[96, 97, 100, 95]	No	TRUE	FALSE	FALSE	FALSE
activiti	50d8e43eb5917c63abfbcdec1e68e510943f325a	org.activiti.engine.impl.persistence.entity.DeploymentEntityManager	deleteDeployment(String, boolean)	Roberto	[107]	[114, 115, 116, 117]	No	TRUE	FALSE	FALSE	FALSE
activiti	bf46684ba62f5883673ea8fb0a14aecfe0aadea2	org.activiti.engine.impl.bpmn.behavior.UserTaskActivityBehavior	execute (ActivityExecution)	Roberto	[112, 113, 114, 115, 116, 117, 110, 111]	[118, 125, 126, 127]	No	TRUE	TRUE	TRUE	FALSE
okhttp	1151c9853ccc3c9c3211c613b9b845b925f8c6a6	com.squareup.okhttp.internal.bytes.GzipSource	consumeHeader(Deadline)	Roberto	[112]	[138]	No	FALSE	FALSE	FALSE	FALSE
okhttp	35166168529bd27281685e56a0a122eff44460e9	com.squareup.okhttp.OkHttpClient	copyWithDefaults()	DeSouza	[277, 293]	[287]	No	FALSE	TRUE	TRUE	FALSE
HikariCP	1bca94af9ec625f21d1b58ff10efb5be71ab87a6	com.zaxxer.hikari.HikariConfig	validate()	Roberto	[577, 578, 579, 580, 581, 582]	[]	No	TRUE	FALSE	FALSE	FALSE
pushy	58901c846e4f0874977c5aabbc34bcb4de367e00	com.relayrides.pushy.apns.PushManager	handleConnectionClosure (ApnsConnection<T>)	Guilherme	[520, 510]	[515, 500, 502, 503]	No	FALSE	FALSE	FALSE	FALSE

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java-faker	ca42fcfa45cae1754c58e02e1d5d2a58ec03561	com.github.javafaker.Faker	Faker(Locale, Random)	Guilherme	[69, 59]	[70]	No	FALSE	FALSE	FALSE	FALSE
swagger-core	e7fea7c4889dbdd6a4e0b2d059c8aa0f126ab1c2	io.swagger.jaxrs2.OperationParser	getSchemaFromAnnotation(io.swagger.oas.annotations.media.Schema)	Guilherme	[240, 241, 234, 235, 236, 237, 238, 239]	[244, 187, 188]	No	FALSE	FALSE	FALSE	error
cucumber-jvm	4505c156b6267c1b760deec570ddbfe047b42aa9	cuke4duke.internal.java.JavaLanguage	load(String)	Roberto	[38, 40]	[36]	No	FALSE	FALSE	FALSE	FALSE
SimianArmy	345ad9513aaff397050d613fa87ad06ddffe99d	com.netflix.simianarmy.basic.janitor.BasicJanitorMonkeyContext	getInstanceJanitor()	Roberto	[227, 228, 229, 230]	[232, 233, 234, 235, 237, 238]	Yes	FALSE	FALSE	FALSE	FALSE
libgdx	da27e2dae56be0a159e82231e5c3a5b83b099063	com.badlogic.gdx.backends.lwjgl3.Lwjgl3Application	newWindow(ApplicationListener, Lwjgl3WindowConfiguration)	DeSouza	[318]	[325]	No	FALSE	FALSE	FALSE	FALSE
libgdx	da27e2dae56be0a159e82231e5c3a5b83b099063	com.badlogic.gdx.backends.lwjgl3.Lwjgl3ApplicationConfiguration	copy(Lwjgl3ApplicationConfiguration)	DeSouza	[96, 97, 98, 99]	[107]	No	FALSE	FALSE	FALSE	FALSE
RxJava	a40a4130edcda30353018173f2	rx.internal.operators.OperatorMulticast	connect(Action1<? superSubscription>)	Roberto	[94]	[128, 129, 131, 117, 118, 119, 120, 121, 122, 124, 125]	No	TRUE	TRUE	TRUE	FALSE
RxJava	1c47b0cb26e6d971ee42eb3479099236b0125	rx.concurrency.TestScheduler	triggerActions(long)	DeSouza	[100]	[96, 97, 95]	Yes	FALSE	FALSE	FALSE	TRUE
elasticsearch-river-mongodb	3d4f99516ba3177f7d88a1f600923138a8b77cc8	org.elasticsearch.river.mongodb.Slurper	assignCollections()	Roberto	[288, 289, 290, 322, 291, 292, 293, 294, 295, 297, 298, 286, 287]	[315, 331, 302]	Yes	TRUE	FALSE	FALSE	TRUE
hector	0588608e7a2bdf974c985ff546207104f672bf6c	me.prettyprint.cassandra.connection.client.HSaslThriftClient	open()	Roberto	[96, 97, 94, 111, 95]	[122]	Yes	TRUE	TRUE	TRUE	TRUE
titan	387c16ea05ef9fa312f37139228d2bbf61455ff4	com.thinkaurelius.titan.graphdb.database.serialize.SerializerInitialization	initialize(Serializer)	Roberto	[52, 53, 54, 55, 57]	[31]	Yes	FALSE	FALSE	FALSE	FALSE
MPAndroidChart	af114d180da6ec5633d32c701ff5467f7629fcf3	com.xmssdevelopment.mpchartexample.fragments.SimpleFragment	generateScatterData(int, float, int)	DeSouza	[80, 91]	[73]		FALSE	FALSE	FALSE	FALSE
MPAndroidChart	9297923f09460d0484cd713b0abbeaea9b888ec0	com.xmssdevelopment.mpchartexample.LineChartActivity	onCreate(Bundle)	DeSouza	[126]	[117]	Yes	FALSE	FALSE	FALSE	FALSE
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.common.settings.IndexScopedSettings	BUILT_IN_INDEX_SETTINGS	Mining	[119, 120]	[121]	Yes	TRUE	TRUE	FALSE	error
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.action.index.TransportIndexAction	executeIndexRequestOnPrimary(IndexRequest, IndexShard, MappingUpdateAction)	Mining	[196]	[201]	Yes	FALSE	FALSE	FALSE	error
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.action.support.replication.ReplicationOperationTests	testReplication()	Mining	[106, 108, 125, 126]	[116, 103]	Yes	FALSE	FALSE	FALSE	error
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.index.IndexSettings	IndexSettings(IndexMetaData, Settings, Predicate<String>, IndexScopedSettings)	Mining	[238]	[246, 269]	Yes	FALSE	FALSE	timeout	error
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.action.bulk.TransportShardBulkAction	update(IndexMetaData BulkShardRequest, IndexShard, long[], VersionType[], Translog.Location, int, BulkItemRequest)	Mining	[268, 255]	[244, 249, 266, 254]	Yes	FALSE	FALSE	FALSE	error

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elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.action.support.replication.TransportReplicationAction	doRun()	Mining	[455, 458, 460]	[457, 459]	Yes	TRUE	FALSE	FALSE	FALSE
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.action.support.replication.ReplicationOperation	execute()	Mining	[98, 109]	[113, 98, 99, 101, 119, 108, 110]	Yes	FALSE	FALSE	FALSE	TRUE
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.index.engine.InternalEngineTests	testRecoverFromForeignTranslog()	Mining	[2091]	[2124]	Yes	FALSE	FALSE	FALSE	error
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.index.engine.InternalEngine	InternalEngine(EngineConfig)	Mining	[134]	[161, 162, 163, 164]	Yes	FALSE	FALSE	FALSE	FALSE
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.action.DocWriteResponse	writeTo(StreamOutput)	Mining	[140]	[141]	Yes	TRUE	TRUE	TRUE	FALSE
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.action.DocWriteResponse	readFrom(StreamInput)	DeSouza	[129]	[130]	Yes	FALSE	FALSE	FALSE	FALSE
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.action.DocWriteResponse	toXContent(XContentBuilder, Params)	DeSouza	[163, 164, 165, 166]	[160]	Yes	TRUE	TRUE	TRUE	FALSE
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.cluster.metadata.MetadataCreateIndexService	createIndex(CreateIndexClusterStateUpdateRequest, ActionListener<ClusterStateUpdateResponse>)	Mining	[315]	[304, 305, 309, 310, 312, 346, 300]	Yes	FALSE	FALSE	timeout	error
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.action.update.TransportUpdateAction	shardOperation(UpdateRequest, ActionListener<UpdateResponse>, int)	Mining	[224, 185, 254]	[192, 249, 250]	Yes	FALSE	TRUE	TRUE	error
elasticsearch	d896886973660785aac45275ddb110c1a6babcb57	org.elasticsearch.action.delete.TransportDeleteAction	executeDeleteRequestOnPrimary(DeleteRequest, IndexShard)	Mining	[136]	[140]	Yes	FALSE	FALSE	FALSE	error
elasticsearch	3764b3ff800c94293aba0bb0fa18c7df80a764f7	org.elasticsearch.rest.action.cat.RestNodesAction	getTableWithHeader(RestRequest)	DeSouza	[]	[153, 154, 156, 157, 158, 159]	Yes	FALSE	FALSE	timeout	FALSE
elasticsearch	3764b3ff800c94293aba0bb0fa18c7df80a764f7	org.elasticsearch.rest.action.cat.RestIndicesAction	getTableWithHeader(RestRequest)	DeSouza	[]	[144, 147, 150, 153, 138, 141]	Yes	FALSE	FALSE	timeout	FALSE
elasticsearch	3764b3ff800c94293aba0bb0fa18c7df80a764f7	org.elasticsearch.rest.action.cat.RestShardsAction	getTableWithHeader(RestRequest)	DeSouza	[]	[112, 113]	Yes	FALSE	FALSE	timeout	FALSE
elasticsearch	0404db65e3497452886173957729c8e82cfda03	org.elasticsearch.test.ESSingleNodeTest	newNode()	DeSouza	[171]	[173, 174]	Yes	FALSE	FALSE	FALSE	FALSE
elasticsearch	59cb67c7bd0ab6311115b20954e013412b676b29	org.elasticsearch.index.query.support.NestedInnerQueryParserSupport	setPathLevel()	DeSouza	[193, 195, 197, 200]	[199]	Yes	FALSE	TRUE	FALSE	FALSE
elasticsearch	59cb67c7bd0ab6311115b20954e013412b676b29	org.elasticsearch.index.query.MultiMatchQueryBuilder	doXContent(XContentBuilder, Params)	Mining	[306, 367]	[]	Yes	TRUE	FALSE	FALSE	FALSE
elasticsearch	f3d63095dbcc985e24162fbac4ee0d6914dc757d	org.elasticsearch.index.analysis.synonyms.SynonymsAnalysisTest	testSynonymsAnalysis()	DeSouza	[65, 66, 67, 68, 69, 70, 71, 76]	[73, 75]	Yes	FALSE	FALSE	FALSE	TRUE
elasticsearch	f3d63095dbcc985e24162fbac4ee0d6914dc757d	org.elasticsearch.index.analysis.commongrams.CommonGramsTokenFilterFactoryTests	testQueryModeCommonGramsAnalysis()	Mining	[229]	[226, 228]	Yes	FALSE	TRUE	TRUE	FALSE
elasticsearch	f3d63095dbcc985e24162fbac4ee0d6914dc757d	org.elasticsearch.index.analysis.commongrams.CommonGramsTokenFilterFactoryTests	testCommonGramsAnalysis()	Mining	[144]	[141, 143]	Yes	FALSE	TRUE	TRUE	FALSE

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elasticsearch	f3d63095dbcc985e24162fbac4ee0d6914dc757d	org.elasticsearch.index.analysis.KuromojiAnalysisTests	createAnalysisService()	Mining	[196, 197, 198, 199, 200, 201, 202, 206]	[204, 207]	Yes	FALSE	FALSE	FALSE	FALSE
elasticsearch	36884807b3cc9d660db4da062275c7fdbec8ba67	org.elasticsearch.index.query.SimpleIndexQueryParserTests	setup()	DeSouza	[217]	[208]	Yes	FALSE	FALSE	FALSE	FALSE
fitnesse	4d9ba9d221d879507440feb084fa7521b95111ec	fitnesse.testsystems.slim.tables.SlimTableFactoryTest	setUp()	Roberto	[32, 31]	[38]	Yes	TRUE	FALSE	FALSE	FALSE
fitnesse	4d9ba9d221d879507440feb084fa7521b95111ec	fitnesse.testsystems.slim.tables.SlimTableFactory	SlimTableFactory()	Roberto	[24, 25]	[31]	Yes	TRUE	FALSE	FALSE	FALSE
cloud-slang	20bac30d9bd76569aa6a4fa1e8261c1a9b5e6f76	io.cloudslang.lang.api.SlangImpl	getAllEventTypes()	Leuson	[116]	[123, 124, 125]	Yes	TRUE	TRUE	TRUE	FALSE
spring-boot	6664ce19d6f2388ebd6cf54763f54fddddd226b9a	org.springframework.boot.jta.atomikos.AtomikosProperties	asProperties()	DeSouza	[323, 324, 325, 326, 327, 328, 317]	[]	No	TRUE	FALSE	not-found	not-found
spring-boot	6664ce19d6f2388ebd6cf54763f54fddddd226b9a	org.springframework.boot.jta.atomikos.AtomikosPropertiesTests	testProperties()	Mining	[49, 68, 55, 56, 57, 58, 74, 75, 76, 77]	[]	No	TRUE	FALSE	not-found	not-found
spring-boot	6664ce19d6f2388ebd6cf54763f54fddddd226b9a	org.springframework.boot.jta.atomikos.AtomikosPropertiesTests	testDefaultProperties()	Mining	[89, 93, 94, 95, 96, 98]	[]	No	TRUE	FALSE	not-found	not-found
spring-boot	958a0a45f164601d01cb706c19f22ed3e25eff56	org.springframework.boot.autoconfigure.mongo.MongoProperties	builder (MongoClientOptions)	DeSouza	[272]	[261, 262, 263, 264, 265, 266, 267, 268, 271]	No	FALSE	FALSE	FALSE	FALSE
spring-boot	af20dc6cc45c032573413c401f9f73aa75371744	org.springframework.boot.loader.archive.ExplodedArchiveTests	getUrl()	Mining	[]	[]	Yes	FALSE	FALSE	FALSE	FALSE
spring-boot	af20dc6cc45c032573413c401f9f73aa75371744	org.springframework.boot.loader.archive.ExplodedArchive	getUrl()	DeSouza	[]	[]	Yes	FALSE	FALSE	FALSE	FALSE
spring-boot	c93ea54ea3e08eaa2a17640d5d2b3e60264c1a9c	org.springframework.boot.autoconfigure.cache.RedisCacheConfiguration	cacheManager (RedisTemplate<Object, Object>)	DeSouza	[55]	[60]	No	FALSE	FALSE	not-found	not-found
spring-boot	ea8107b6a53fa60b5f23b33e1b6d2e88bb60133c	org.springframework.boot.context.embedded.undertow.UndertowEmbeddedServletContainerFactory	createDeploymentManager (ServletContextInitializer)	DeSouza	[357, 358, 359, 360, 345, 361, 362]	[364]	Yes	FALSE	FALSE	FALSE	TRUE
spring-boot	3444ebbc05b99a164474c14d6a6784f749514428	org.springframework.boot.context.web.SpringBootServletInitializer	createRootApplicationContext (ServletContext)	DeSouza	[99]	[121, 123]	No	FALSE	FALSE	FALSE	FALSE
spring-boot	074771ec125dd407af0282b92960e9e9e3377e84	org.springframework.boot.context.web.SpringBootServletInitializer	createRootApplicationContext (ServletContext)	DeSouza	[87]	[88]	No	FALSE	TRUE	TRUE	FALSE
spring-boot	fdd3f12ee0f92ac18844c08bf71df39feebb6673	org.springframework.boot.autoconfigure.logging.AutoConfigurationReportLoggingInitializer	logAutoConfigurationReport (boolean)	DeSouza	[114]	[110]	No	TRUE	TRUE	FALSE	FALSE
spring-boot	2d4e68a9777601bfb8309c94d8b74bc21be80ad1	org.springframework.boot.context.embedded.tomcat.TomcatEmbeddedServletContainerFactory	customizeConnector (Connector)	DeSouza	[240, 241, 242, 243, 244, 246, 247, 248, 249]	[228]	No	FALSE	FALSE	FALSE	FALSE

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quickml	bae968d9a85c0501ba8842a6f88e7fc2c6b78693	quickdt.experiments.OutOfTimeCrossValidatorRunner	getRandomForestBuilder(int, int)	Guilherme	[]	[42, 43]	No	FALSE	FALSE	FALSE	FALSE