Method Metrics

References

- jqassistant
- Neo4j Python Driver

Effective Method Line Count

Table 1a - Effective method line count distribution

This table shows the distribution of the effective method line count per artifact. For each artifact the number of methods with effective line count = 1,2,3,... is shown to get an overview of how line counts are distributed over methods.

Only the 15 artifacts with the highest method count and their effective method line count distribution (limited by 40)is shown here. The whole table can be found in the CSV report Effective Method Line Count Distribution .

Have a look below to find out which packages and methods have the highest effective lines of code.

| artifactName | axon-messaging- 4.9.3.jar | axon-eventsourcing- 4.9.3.jar | axon-modelling- 4.9.3.jar | axon-test- 4.9.3.jar | axon-configuration- 4.9.3.jar | axon-disruptor- 4.9.3.jar |
|--------------------|------------------------------|----------------------------------|------------------------------|-------------------------|----------------------------------|------------------------------|
| effectiveLineCount | | | | | | |
| 1 | 2820 | 573 | 532 | 279 | 310 | 84 |
| 2 | 823 | 204 | 158 | 170 | 146 | 31 |
| 3 | 674 | 127 | 141 | 64 | 34 | 30 |
| 4 | 269 | 64 | 57 | 49 | 42 | 8 |
| 5 | 220 | 39 | 45 | 24 | 16 | 5 |
| 6 | 161 | 34 | 45 | 18 | 17 | 6 |
| 7 | 103 | 32 | 24 | 20 | 3 | 2 |
| 8 | 80 | 12 | 10 | 11 | 7 | 0 |
| 9 | 76 | 17 | 17 | 10 | 8 | 4 |
| 10 | 46 | 8 | 8 | 4 | 6 | 3 |
| 11 | 45 | 2 | 8 | 9 | 5 | 1 |
| 12 | 41 | 5 | 2 | 9 | 1 | 1 |
| 13 | 26 | 2 | 9 | 5 | 2 | 1 |
| 14 | 17 | 3 | 3 | 3 | 1 | 2 |
| 15 | 9 | 2 | 5 | 2 | 0 | 0 |
| 16 | 8 | 6 | 2 | 4 | 0 | 0 |
| 17 | 10 | 0 | 2 | 3 | 1 | 1 |
| 18 | 9 | 3 | 0 | 3 | 1 | 1 |
| 19 | 6 | 0 | 1 | 0 | 1 | 1 |
| 20 | 5 | 2 | 2 | 1 | 0 | 0 |
| 21 | 7 | 2 | 1 | 1 | 1 | 0 |
| 22 | 2 | 1 | 2 | 1 | 0 | 1 |
| 23 | 5 | 2 | 0 | 1 | 1 | 0 |
| 24 | 3 | 1 | 1 | 1 | 0 | 1 |
| 25 | 2 | 1 | 0 | 0 | 0 | 0 |
| 26 | 2 | 0 | 1 | 1 | 1 | 0 |
| 28 | 2 | 0 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 1 | 0 | 0 |
| 30 | 1 | 0 | 0 | 0 | 0 | 0 |
| 31 | 1 | 0 | 0 | 1 | 0 | 0 |
| 32 | 1 | 0 | 0 | 0 | 0 | 1 |
| 33 | 1 | 0 | 0 | 0 | 0 | 0 |
| 34 | 1 | 0 | 0 | 0 | 0 | 0 |
| 36 | 2 | 0 | 0 | 0 | 0 | 0 |
| 38 | 0 | 0 | 1 | 0 | 0 | 0 |
| 43 | 0 | 0 | 0 | 0 | 1 | 0 |
| 44 | 1 | 0 | 0 | 0 | 0 | 0 |
| 45 | 0 | 0 | 0 | 1 | 0 | 0 |
| 50 | 1 | 0 | 0 | 0 | 1 | 0 |
| 63 | 1 | 0 | 0 | 0 | 0 | 0 |

Table 1b - Effective method line count distribution (normalized)

The table shown here only includes the first 40 rows which typically represents the most significant entries. Have a look below to find out which packages and methods have the highest effective lines of code.

| artifactName | axon-messaging- 4.9.3.jar | axon-eventsourcing- 4.9.3.jar | axon-modelling- 4.9.3.jar | axon-test- 4.9.3.jar | axon-configuration- 4.9.3.jar | axon-disruptor- 4.9.3.jar |
|--------------------|------------------------------|----------------------------------|------------------------------|-------------------------|----------------------------------|------------------------------|
| effectiveLineCount | | | | | | |
| 1 | 51.431698 | 50.175131 | 49.396472 | 40.086207 | 51.155116 | 45.652174 |
| 2 | 15.010031 | 17.863398 | 14.670381 | 24.425287 | 24.092409 | 16.847826 |
| 3 | 12.292541 | 11.120841 | 13.091922 | 9.195402 | 5.610561 | 16.304348 |
| 4 | 4.906073 | 5.604203 | 5.292479 | 7.040230 | 6.930693 | 4.347826 |
| 5 | 4.012402 | 3.415061 | 4.178273 | 3.448276 | 2.640264 | 2.717391 |
| 6 | 2.936349 | 2.977233 | 4.178273 | 2.586207 | 2.805281 | 3.260870 |
| 7 | 1.878534 | 2.802102 | 2.228412 | 2.873563 | 0.495050 | 1.086957 |
| 8 | 1.459055 | 1.050788 | 0.928505 | 1.580460 | 1.155116 | 0.000000 |
| 9 | 1.386102 | 1.488616 | 1.578459 | 1.436782 | 1.320132 | 2.173913 |
| 10 | 0.838957 | 0.700525 | 0.742804 | 0.574713 | 0.990099 | 1.630435 |
| 11 | 0.820719 | 0.175131 | 0.742804 | 1.293103 | 0.825083 | 0.543478 |
| 12 | 0.747766 | 0.437828 | 0.185701 | 1.293103 | 0.165017 | 0.543478 |
| 13 | 0.474193 | 0.175131 | 0.835655 | 0.718391 | 0.330033 | 0.543478 |
| 14 | 0.310049 | 0.262697 | 0.278552 | 0.431034 | 0.165017 | 1.086957 |
| 15 | 0.164144 | 0.175131 | 0.464253 | 0.287356 | 0.000000 | 0.000000 |
| 16 | 0.145906 | 0.525394 | 0.185701 | 0.574713 | 0.000000 | 0.000000 |
| 17 | 0.182382 | 0.000000 | 0.185701 | 0.431034 | 0.165017 | 0.543478 |
| 18 | 0.164144 | 0.262697 | 0.000000 | 0.431034 | 0.165017 | 0.543478 |
| 19 | 0.109429 | 0.000000 | 0.092851 | 0.000000 | 0.165017 | 0.543478 |
| 20 | 0.091191 | 0.175131 | 0.185701 | 0.143678 | 0.000000 | 0.000000 |
| 21 | 0.127667 | 0.175131 | 0.092851 | 0.143678 | 0.165017 | 0.000000 |
| 22 | 0.036476 | 0.087566 | 0.185701 | 0.143678 | 0.000000 | 0.543478 |
| 23 | 0.091191 | 0.175131 | 0.000000 | 0.143678 | 0.165017 | 0.000000 |
| 24 | 0.054715 | 0.087566 | 0.092851 | 0.143678 | 0.000000 | 0.543478 |
| 25 | 0.036476 | 0.087566 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 26 | 0.036476 | 0.000000 | 0.092851 | 0.143678 | 0.165017 | 0.000000 |
| 28 | 0.036476 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 29 | 0.000000 | 0.000000 | 0.000000 | 0.143678 | 0.000000 | 0.000000 |
| 30 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 31 | 0.018238 | 0.000000 | 0.000000 | 0.143678 | 0.000000 | 0.000000 |
| 32 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.543478 |
| 33 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 34 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 36 | 0.036476 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 38 | 0.000000 | 0.000000 | 0.092851 | 0.000000 | 0.000000 | 0.000000 |
| 43 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.165017 | 0.000000 |
| 44 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 45 | 0.000000 | 0.000000 | 0.000000 | 0.143678 | 0.000000 | 0.000000 |
| 50 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.165017 | 0.000000 |
| 63 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| | | | | | | |

Table 1b Chart 1 - Effective method line count distribution (normalized)

<Figure size 640x480 with 0 Axes>



Table 1c - Top 30 packages with highest effective line counts

The following table shows the top 30 packages with the highest effective lines of code. The whole table can be found in the CSV report Effective_lines_of_method_code_per_package .

| | artifactName | fullPackageName | linesInPackage | methodCount | maxLinesMethod | maxLinesMethodName |
|----|----------------------------------|---|----------------|-------------|----------------|---|
| 0 | axon- messaging- 4.9.3 | org.axonframework.eventhandling | 2333 | 838 | 64 | processBatch |
| 1 | axon- configuration- 4.9.3 | org.axonframework.config | 1587 | 606 | 50 | <init></init> |
| 2 | axon- messaging- 4.9.3 | org.axonframework.eventhandling.pooled | 1021 | 333 | 78 | run |
| 3 | axon-test- 4.9.3 | org.axonframework.test.aggregate | 951 | 249 | 45 | appendEventOverview |
| 4 | axon- messaging- 4.9.3 | org.axonframework.queryhandling | 927 | 381 | 36 | doQuery |
| 5 | axon- messaging- 4.9.3 | org.axonframework.eventhandling.deadletter.jdbc | 849 | 249 | 31 | convertToLetter |
| 6 | axon- modelling- 4.9.3 | org.axonframework.modelling.command | 824 | 329 | 17 | lambda $initializeHandler$ 7 |
| 7 | axon- eventsourcing- 4.9.3 | org.axonframework.eventsourcing.eventstore | 712 | 264 | 21 | peekPrivateStream |
| 8 | axon- messaging- 4.9.3 | org.axonframework.messaging.annotation | 673 | 239 | 23 | <init></init> |
| 9 | axon- modelling- 4.9.3 | org. ax on framework. modelling. command. in spection | 637 | 218 | 26 | inspectFieldsAndMethods |
| 10 | axon- eventsourcing- 4.9.3 | org.axonframework.eventsourcing | 623 | 251 | 20 | doScheduleSnapshot |
| 11 | axon- disruptor-4.9.3 | org.axonframework.disruptor.commandhandling | 605 | 184 | 32 | <init></init> |
| 12 | axon- eventsourcing- 4.9.3 | org.axonframework.eventsourcing.eventstore.leg | 573 | 187 | 25 | fetchTrackedEvents |
| 13 | axon- eventsourcing- 4.9.3 | org.axonframework.eventsourcing.eventstore.jdbc | 568 | 236 | 24 | <init></init> |
| 14 | axon- messaging- 4.9.3 | org.axonframework.serialization | 537 | 181 | 22 | <init></init> |
| 15 | axon- messaging- 4.9.3 | org.axonframework.eventhandling.deadletter.jpa | 522 | 132 | 28 | equals |
| 16 | axon- messaging- 4.9.3 | org.axonframework.common | 501 | 144 | 24 | get Exact Direct Super Types Of Parameterized Type Or C |
| 17 | axon-test- 4.9.3 | org.axonframework.test.saga | 492 | 168 | 29 | <init></init> |
| 18 | axon- modelling- 4.9.3 | org.axonframework.modelling.saga | 490 | 194 | 22 | handle |
| 19 | axon- messaging- 4.9.3 | org.axonframework.commandhandling.gateway | 488 | 174 | 50 | createGateway |
| 20 | axon- messaging- 4.9.3 | org.axonframework.commandhandling.distributed | 477 | 175 | 23 | dispatch |
| 21 | axon- messaging- 4.9.3 | org. ax on framework. eventh and ling. to ken store. jdbc | 430 | 130 | 26 | updateToken |
| 22 | axon- messaging- 4.9.3 | org.axonframework.eventhandling.deadletter.leg | 401 | 97 | 21 | convert |
| 23 | axon- messaging- 4.9.3 | org.axonframework.commandhandling | 377 | 169 | 13 | <init></init> |
| 24 | axon- modelling- 4.9.3 | org.axonframework.modelling.saga.repository.jdbc | 374 | 84 | 38 | updateSaga |
| 25 | axon- messaging- 4.9.3 | org.axonframework.messaging.unitofwork | 363 | 129 | 32 | executeWithResult |
| 26 | axon-test- 4.9.3 | org.axonframework.test.matchers | 351 | 108 | 21 | matchingFields |

| maxLinesMethodName | maxLinesMethod | methodCount | linesInPackage | fullPackageName | artifactName | |
|--------------------|----------------|-------------|----------------|--|----------------------------------|----|
| defaultHeaders | 13 | 156 | 348 | org.axonframework.messaging | axon- messaging- 4.9.3 | 27 |
| execute | 18 | 103 | 321 | org.axonframework.deadline.dbscheduler | axon- messaging- 4.9.3 | 28 |
| fetchTrackedEvents | 23 | 101 | 318 | org.axonframework.eventsourcing.eventstore.jpa | axon- eventsourcing- 4.9.3 | 29 |

Table 1d - Top 30 methods with the highest effective line count

The following table shows the top 30 methods with the highest effective lines of code. The whole table can be found in the CSV report Effective_lines_of_method_code_per_package.

| i | index | artifactName | fullPackageName | maxLinesMethodType | maxLinesMetho |
|----|-------|----------------------------------|--|--|--|
| 0 | 2 | axon- messaging- 4.9.3 | org. ax on framework. eventh and ling. pooled | Coordinator\$CoordinationTask | |
| 1 | 0 | axon- messaging- 4.9.3 | org.axonframework.eventhandling | TrackingEventProcessor | proces |
| 2 | 19 | axon- messaging- 4.9.3 | org.axonframework.commandhandling.gateway | CommandGatewayFactory | createG |
| 3 | 1 | axon- configuration- 4.9.3 | org.axonframework.config | DefaultConfigurer | |
| 4 | 3 | axon-test- 4.9.3 | org.axonframework.test.aggregate | Reporter | appendEventO ₁ |
| 5 | 35 | axon- messaging- 4.9.3 | org.axonframework.deadline.quartz | DeadlineJob | ę |
| 6 | 24 | axon- modelling- 4.9.3 | org.axonframework.modelling.saga.repository.jdbc | JdbcSagaStore | upda |
| 7 | 4 | axon- messaging- 4.9.3 | org.axonframework.queryhandling | SimpleQueryBus | d |
| 8 | 30 | axon- messaging- 4.9.3 | org.axonframework.messaging.deadletter | InMemorySequencedDeadLetterQueue | ţ |
| 9 | 25 | axon- messaging- 4.9.3 | org.axonframework.messaging.unitofwork | BatchingUnitOfWork | executeWitl |
| 10 | 11 | axon- disruptor-4.9.3 | org.axonframework.disruptor.commandhandling | DisruptorCommandBus | |
| 11 | 5 | axon- messaging- 4.9.3 | org. ax on framework. eventh and ling. dead letter. jdbc | DefaultDeadLetterJdbcConverter | convert1 |
| 12 | 17 | axon-test- 4.9.3 | org.axonframework.test.saga | SagaTestFixture | |
| 13 | 15 | axon- messaging- 4.9.3 | org. ax on framework. eventhand ling. dead letter. jp a | DeadLetterEventEntry | |
| 14 | 9 | axon- modelling- 4.9.3 | org.axonframework.modelling.command.inspection | Annotated Aggregate Meta Model Factory \$ Annotated Ag | inspectFieldsAndN |
| 15 | 21 | axon- messaging- 4.9.3 | org.axonframework.eventhandling.tokenstore.jdbc | JdbcTokenStore | updat |
| 16 | 12 | axon- eventsourcing- 4.9.3 | org. ax on framework. events our cing. events to re.leg | JpaEventStorageEngine | fetchTrackec |
| 17 | 34 | axon- messaging- 4.9.3 | org.axonframework.deadline | SimpleDeadlineManager\$DeadlineTask | |
| 18 | 13 | axon- eventsourcing- 4.9.3 | org.axonframework.eventsourcing.eventstore.jdbc | JdbcEventStorageEngine | |
| 19 | 16 | axon- messaging- 4.9.3 | org.axonframework.common | TypeReflectionUtils | get Exact Direct Super Types Of Parameterized Types Of Parameteriz |
| 20 | 20 | axon- messaging- 4.9.3 | org.axonframework.commandhandling.distributed | DistributedCommandBus | d |
| 21 | 29 | axon- eventsourcing- 4.9.3 | org.axonframework.eventsourcing.eventstore.jpa | JpaEventStorageEngine | fetchTrackec |
| 22 | 8 | axon- messaging- 4.9.3 | org.axonframework.messaging.annotation | AnnotatedMessageHandlingMember | |
| 23 | 47 | axon- messaging- 4.9.3 | org.axonframework.deadline.jobrunr | JobRunrDeadlineManager | ę |
| 24 | 32 | axon- modelling- 4.9.3 | org.axonframework.modelling.saga.repository | AssociationValueMap\$AssociationValueComparator | CI |
| 25 | 18 | axon- modelling- 4.9.3 | org.axonframework.modelling.saga | AbstractSagaManager | |
| 26 | 14 | axon- messaging- 4.9.3 | org.axonframework.serialization | AbstractXStreamSerializer | |

| maxLinesMetho | ifactName fullPackageName maxLinesMethodType | | artifactName | index | |
|---------------|--|---|----------------------------------|-------|----|
| matchin | DeepEqualsMatcher | org.axonframework.test.matchers | axon-test- 4.9.3 | 26 | 27 |
| | EventMessageDeadLetterJpaConverter | org. ax on framework. eventh and ling. dead letter. leg | axon- messaging- 4.9.3 | 22 | 28 |
| peekPrivate | EmbeddedEventStore\$EventConsumer | org.axonframework.eventsourcing.eventstore | axon- eventsourcing- 4.9.3 | 7 | 29 |

Cyclomatic Complexity

Table 2a - Cyclomatic method complexity distribution

This table shows the distribution of the cyclomatic complexity of methods per artifact. For each artifact the number of methods with the cyclomatic complexity = 1,2,3,... is shown to get an overview of how cyclomatic complexity is distributed over methods.

Only the 15 artifacts with the highest method count sum and their cyclomatic method complexity distribution (limited by 40) is shown here. The whole table can be found in the CSV report Cyclomatic_Method_Complexity_Distribution.

Have a look below to find out which packages and methods have the highest effective lines of code.

| artifactName | axon-messaging- 4.9.3.jar | axon-eventsourcing- 4.9.3.jar | axon-modelling- 4.9.3.jar | axon-test- 4.9.3.jar | axon-configuration- 4.9.3.jar | axon-disruptor- 4.9.3.jar |
|----------------------|------------------------------|----------------------------------|------------------------------|-------------------------|----------------------------------|------------------------------|
| cyclomaticComplexity | | | | | | |
| 1 | 4414 | 943 | 895 | 519 | 542 | 146 |
| 2 | 462 | 94 | 75 | 60 | 37 | 20 |
| 3 | 283 | 53 | 38 | 60 | 17 | 5 |
| 4 | 140 | 24 | 29 | 22 | 5 | 4 |
| 5 | 74 | 9 | 24 | 12 | 3 | 3 |
| 6 | 46 | 4 | 10 | 9 | 0 | 2 |
| 7 | 20 | 7 | 2 | 4 | 2 | 2 |
| 8 | 12 | 7 | 1 | 3 | 0 | 2 |
| 9 | 7 | 0 | 2 | 1 | 0 | 0 |
| 10 | 4 | 0 | 0 | 1 | 0 | 0 |
| 11 | 9 | 0 | 0 | 2 | 0 | 0 |
| 12 | 4 | 0 | 0 | 2 | 0 | 0 |
| 13 | 2 | 1 | 0 | 1 | 0 | 0 |
| 14 | 1 | 0 | 0 | 0 | 0 | 0 |
| 15 | 1 | 0 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 1 | 0 | 0 | 0 |
| 17 | 1 | 0 | 0 | 0 | 0 | 0 |
| 21 | 1 | 0 | 0 | 0 | 0 | 0 |
| 22 | 1 | 0 | 0 | 0 | 0 | 0 |
| 40 | 1 | 0 | 0 | 0 | 0 | 0 |

Table 2b - Cyclomatic method complexity distribution (normalized)

The table shown here only includes the first 40 rows which typically represents the most significant entries. Have a look below to find out which packages and methods have the highest effective lines of

| artifactName | axon-messaging- 4.9.3.jar | axon-eventsourcing- 4.9.3.jar | axon-modelling- 4.9.3.jar | axon-test- 4.9.3.jar | axon-configuration- 4.9.3.jar | axon-disruptor- 4.9.3.jar |
|----------------------|------------------------------|----------------------------------|------------------------------|-------------------------|----------------------------------|------------------------------|
| cyclomaticComplexity | | | | | | |
| 1 | 80.503374 | 82.574431 | 83.101207 | 74.568966 | 89.438944 | 79.347826 |
| 2 | 8.426044 | 8.231173 | 6.963788 | 8.620690 | 6.105611 | 10.869565 |
| 3 | 5.161408 | 4.640981 | 3.528319 | 8.620690 | 2.805281 | 2.717391 |
| 4 | 2.553347 | 2.101576 | 2.692665 | 3.160920 | 0.825083 | 2.173913 |
| 5 | 1.349626 | 0.788091 | 2.228412 | 1.724138 | 0.495050 | 1.630435 |
| 6 | 0.838957 | 0.350263 | 0.928505 | 1.293103 | 0.000000 | 1.086957 |
| 7 | 0.364764 | 0.612960 | 0.185701 | 0.574713 | 0.330033 | 1.086957 |
| 8 | 0.218858 | 0.612960 | 0.092851 | 0.431034 | 0.000000 | 1.086957 |
| 9 | 0.127667 | 0.000000 | 0.185701 | 0.143678 | 0.000000 | 0.000000 |
| 10 | 0.072953 | 0.000000 | 0.000000 | 0.143678 | 0.000000 | 0.000000 |
| 11 | 0.164144 | 0.000000 | 0.000000 | 0.287356 | 0.000000 | 0.000000 |
| 12 | 0.072953 | 0.000000 | 0.000000 | 0.287356 | 0.000000 | 0.000000 |
| 13 | 0.036476 | 0.087566 | 0.000000 | 0.143678 | 0.000000 | 0.000000 |
| 14 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 15 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 16 | 0.000000 | 0.000000 | 0.092851 | 0.000000 | 0.000000 | 0.000000 |
| 17 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 21 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 22 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 40 | 0.018238 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

Table 2b Chart 1 - Cyclomatic method complexity distribution (normalized)





Table 2c - Top 30 packages with highest cyclomatic complexity

The following table shows the top 30 packages with the highest cyclomatic complexity. The whole table can be found in the CSV report Effective_lines_of_method_code_per_package .

| | artifactName | fullPackageName | complexityInPackage | methodCount | maxComplexity | maxComplexityMeth |
|----|----------------------------------|--|---------------------|-------------|---------------|--|
| 0 | axon- messaging- 4.9.3 | org.axonframework.eventhandling | 1276 | 838 | 21 | processBat |
| 1 | axon- configuration- 4.9.3 | org.axonframework.config | 716 | 606 | 7 | invokeLifecycleHandle |
| 4 | axon- messaging- 4.9.3 | org.axonframework.queryhandling | 477 | 381 | 11 | doQue |
| 2 | axon- messaging- 4.9.3 | org.axonframework.eventhandling.pooled | 449 | 333 | 22 | r |
| 6 | axon- modelling- 4.9.3 | org.axonframework.modelling.command | 445 | 329 | 9 | resolveTarţ |
| 3 | axon-test- 4.9.3 | org.axonframework.test.aggregate | 434 | 249 | 13 | ensureValuesEqu |
| 7 | axon- eventsourcing- 4.9.3 | org.axonframework.eventsourcing.eventstore | 397 | 264 | 13 | hasNe |
| 8 | axon- messaging- 4.9.3 | org.axonframework.messaging.annotation | 386 | 239 | 14 | hand |
| 9 | axon- modelling- 4.9.3 | org.axonframework.modelling.command.inspection | 339 | 218 | 9 | prepareHandle |
| 10 | axon- eventsourcing- 4.9.3 | org.axonframework.eventsourcing | 325 | 251 | 8 | doScheduleSnapst |
| 5 | axon- messaging- 4.9.3 | org. ax on framework. eventh and ling. dead letter. jdbc | 304 | 249 | 12 | equi |
| 16 | axon- messaging- 4.9.3 | org.axonframework.common | 301 | 144 | 9 | get Exact Direct Super Types Of Parameterized Type Or Community of the C |
| 12 | axon- eventsourcing- 4.9.3 | org. axon framework. events our cing. events to re.leg | 292 | 187 | 8 | fetchTrackedEver |
| 14 | axon- messaging- 4.9.3 | org.axonframework.serialization | 285 | 181 | 7 | calculateRot |
| 18 | axon- modelling- 4.9.3 | org.axonframework.modelling.saga | 277 | 194 | 6 | instantiateAssociationResolv |
| 11 | axon- disruptor-4.9.3 | org.axonframework.disruptor.commandhandling | 274 | 184 | 8 | onRes |
| 13 | axon- eventsourcing- 4.9.3 | org.axonframework.eventsourcing.eventstore.jdbc | 273 | 236 | 7 | lambda $cleanGaps$ |
| 19 | axon- messaging- 4.9.3 | org.axonframework.commandhandling.gateway | 249 | 174 | 12 | createGatew |
| 20 | axon- messaging- 4.9.3 | org.axonframework.commandhandling.distributed | 243 | 175 | 12 | equi |
| 17 | axon-test- 4.9.3 | org.axonframework.test.saga | 235 | 168 | 9 | assertDispatchedEqual |
| 15 | axon- messaging- 4.9.3 | org. ax on framework. eventhand ling. dead letter. jp a | 212 | 132 | 15 | equi |
| 27 | axon- messaging- 4.9.3 | org.axonframework.messaging | 209 | 156 | 4 | frc |
| 25 | axon- messaging- 4.9.3 | org.axonframework.messaging.unitofwork | 206 | 129 | 11 | executeWithRes |
| 23 | axon- messaging- 4.9.3 | org.axonframework.commandhandling | 201 | 169 | 10 | <in< td=""></in<> |
| 26 | axon-test- 4.9.3 | org.axonframework.test.matchers | 191 | 108 | 8 | matchingFiel |
| 31 | axon- messaging- 4.9.3 | org.axonframework.common.caching | 182 | 110 | 8 | onEve |
| 21 | axon- messaging- 4.9.3 | org. axon framework. eventh and ling. to ken store. jdbc | 173 | 130 | 9 | updateTok |

| kity | maxComplex | maxComplexity | methodCount | complexityInPackage | fullPackageName | artifactName | |
|------|--------------|---------------|-------------|---------------------|--|----------------------------------|----|
| | | 10 | 112 | 169 | org.axonframework.messaging.deadletter | axon- messaging- 4.9.3 | 30 |
| ssa | determineMes | 7 | 126 | 156 | org.axonframework.tracing | axon- messaging- 4.9.3 | 33 |
| ati | loadKeyViola | 8 | 101 | 155 | org.axonframework.eventsourcing.eventstore.jpa | axon- eventsourcing- 4.9.3 | 29 |

Table 2d - Top 30 methods with highest cyclomatic complexity

The following table shows the top 30 packages containing the methods with the highest cyclomatic complexity. The whole table can be found in the CSV report

Effective_lines_of_method_code_per_package .

| | index | artifactName | me fullPackageName maxComplexityType | | maxComple |
|----|-------|----------------------------------|--|---|---------------|
| 0 | 51 | axon- messaging- 4.9.3 | org. ax on framework. eventhand ling. scheduling. job | JobRunrEventScheduler | deserial: |
| 1 | 2 | axon- messaging- 4.9.3 | org.axonframework.eventhandling.pooled | Coordinator\$CoordinationTask | |
| 2 | 0 | axon- messaging- 4.9.3 | org.axonframework.eventhandling | TrackingEventProcessor | рі |
| 3 | 32 | axon- modelling- 4.9.3 | org.axonframework.modelling.saga.repository | AssociationValueMap\$AssociationValueComparator | |
| 4 | 15 | axon- messaging- 4.9.3 | org.axonframework.eventhandling.deadletter.jpa | DeadLetterEventEntry | |
| 5 | 8 | axon- messaging- 4.9.3 | org.axonframework.messaging.annotation | AnnotatedMessageHandlingMember | |
| 6 | 7 | axon- eventsourcing- 4.9.3 | org.axonframework.eventsourcing.eventstore | ConcatenatingDomainEventStream | |
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