

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-4.10.3.jar | axon-server-connector-4.10.3.jar | axon-event sourcing-4.10.3.jar | axon-modelling-4.10.3.jar | axon-test-4.10.3.jar | axon-configuration-4.10.3.jar | axon-spring-boot-autoconfigure-4.10.3.jar | axon-disruptor-4.10.3.jar | axon-tracing-opentelemetry-4.10.3.jar |
|--------------------|---------------------------|----------------------------------|--------------------------------|---------------------------|----------------------|-------------------------------|---|---------------------------|---------------------------------------|
| effectiveLineCount | | | | | | | | | |
| 1 | 2830 | 552 | 573 | 535 | 280 | 310 | 222 | 84 | 16 |
| 2 | 828 | 198 | 204 | 160 | 171 | 146 | 91 | 31 | 4 |
| 3 | 671 | 138 | 127 | 140 | 65 | 34 | 18 | 30 | 10 |
| 4 | 272 | 68 | 64 | 58 | 49 | 42 | 19 | 8 | 7 |
| 5 | 221 | 44 | 39 | 46 | 24 | 16 | 12 | 5 | 2 |
| 6 | 161 | 25 | 34 | 44 | 18 | 17 | 11 | 6 | 3 |
| 7 | 105 | 19 | 32 | 25 | 20 | 3 | 11 | 2 | 2 |
| 8 | 80 | 21 | 12 | 10 | 11 | 7 | 8 | 0 | 0 |
| 9 | 77 | 12 | 18 | 17 | 10 | 8 | 4 | 4 | 1 |
| 10 | 47 | 15 | 7 | 8 | 4 | 6 | 3 | 3 | 0 |
| 11 | 44 | 11 | 2 | 7 | 9 | 5 | 3 | 1 | 0 |
| 12 | 42 | 9 | 5 | 2 | 9 | 1 | 0 | 1 | 1 |
| 13 | 28 | 6 | 2 | 9 | 4 | 2 | 0 | 1 | 0 |
| 14 | 12 | 1 | 3 | 4 | 2 | 1 | 0 | 2 | 0 |
| 15 | 10 | 5 | 2 | 5 | 3 | 0 | 0 | 0 | 0 |
| 16 | 8 | 3 | 6 | 2 | 4 | 0 | 0 | 0 | 0 |
| 17 | 10 | 6 | 0 | 1 | 4 | 1 | 0 | 1 | 0 |
| 18 | 9 | 0 | 3 | 0 | 3 | 1 | 0 | 1 | 0 |
| 19 | 7 | 4 | 0 | 2 | 0 | 1 | 1 | 1 | 0 |
| 20 | 5 | 2 | 2 | 2 | 1 | 0 | 0 | 0 | 0 |
| 21 | 6 | 2 | 2 | 1 | 1 | 1 | 0 | 0 | 0 |
| 22 | 3 | 0 | 1 | 2 | 1 | 0 | 2 | 1 | 0 |
| 23 | 5 | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 0 |
| 24 | 3 | 3 | 1 | 1 | 1 | 0 | 0 | 1 | 0 |
| 25 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| 27 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 32 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 33 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 35 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 36 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 41 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 43 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 44 | 1 | 0 | 0 | 0 | 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-4.10.3.jar | axon-server-connector-4.10.3.jar | axon-event sourcing-4.10.3.jar | axon-modelling-4.10.3.jar | axon-test-4.10.3.jar | axon-configuration-4.10.3.jar | axon-spring-boot-autoconfigure-4.10.3.jar | axon-disruptor-4.10.3.jar | axon-tracing-opentelemetry-4.10.3.jar |
|--------------------|---------------------------|----------------------------------|--------------------------------|---------------------------|----------------------|-------------------------------|---|---------------------------|---------------------------------------|
| effectiveLineCount | | | | | | | | | |
| 1 | 51.435842 | 48.041775 | 50.175131 | 49.399815 | 40.057225 | 51.155116 | 54.545455 | 45.652174 | 34.782609 |
| 2 | 15.049073 | 17.232376 | 17.863398 | 14.773777 | 24.463519 | 24.092409 | 22.358722 | 16.847826 | 8.695652 |
| 3 | 12.195565 | 12.010444 | 11.120841 | 12.927054 | 9.298999 | 5.610561 | 4.422604 | 16.304348 | 21.739130 |
| 4 | 4.943657 | 5.918190 | 5.604203 | 5.355494 | 7.010014 | 6.930693 | 4.668305 | 4.347826 | 15.217391 |
| 5 | 4.016721 | 3.829417 | 3.415061 | 4.247461 | 3.433476 | 2.640264 | 2.948403 | 2.717391 | 4.347826 |
| 6 | 2.926209 | 2.175805 | 2.977233 | 4.062789 | 2.575107 | 2.805281 | 2.702703 | 3.260870 | 6.521739 |
| 7 | 1.908397 | 1.653612 | 2.802102 | 2.308403 | 2.861230 | 0.495050 | 2.702703 | 1.086957 | 4.347826 |
| 8 | 1.454017 | 1.827676 | 1.050788 | 0.923361 | 1.573677 | 1.155116 | 1.965602 | 0.000000 | 0.000000 |
| 9 | 1.399491 | 1.044386 | 1.576182 | 1.569714 | 1.430615 | 1.320132 | 0.982801 | 2.173913 | 2.173913 |
| 10 | 0.854235 | 1.305483 | 0.612960 | 0.738689 | 0.572246 | 0.990099 | 0.737101 | 1.630435 | 0.000000 |
| 11 | 0.799709 | 0.957354 | 0.175131 | 0.646353 | 1.287554 | 0.825083 | 0.737101 | 0.543478 | 0.000000 |
| 12 | 0.763359 | 0.783290 | 0.437828 | 0.184672 | 1.287554 | 0.165017 | 0.000000 | 0.543478 | 2.173913 |
| 13 | 0.508906 | 0.522193 | 0.175131 | 0.831025 | 0.572246 | 0.330033 | 0.000000 | 0.543478 | 0.000000 |
| 14 | 0.218103 | 0.087032 | 0.262697 | 0.369344 | 0.286123 | 0.165017 | 0.000000 | 1.086957 | 0.000000 |
| 15 | 0.181752 | 0.435161 | 0.175131 | 0.461681 | 0.429185 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 16 | 0.145402 | 0.261097 | 0.525394 | 0.184672 | 0.572246 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 17 | 0.181752 | 0.522193 | 0.000000 | 0.092336 | 0.572246 | 0.165017 | 0.000000 | 0.543478 | 0.000000 |
| 18 | 0.163577 | 0.000000 | 0.262697 | 0.000000 | 0.429185 | 0.165017 | 0.000000 | 0.543478 | 0.000000 |
| 19 | 0.127226 | 0.348129 | 0.000000 | 0.184672 | 0.000000 | 0.165017 | 0.245700 | 0.543478 | 0.000000 |
| 20 | 0.090876 | 0.174064 | 0.175131 | 0.184672 | 0.143062 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 21 | 0.109051 | 0.174064 | 0.175131 | 0.092336 | 0.143062 | 0.165017 | 0.000000 | 0.000000 | 0.000000 |
| 22 | 0.054526 | 0.000000 | 0.087566 | 0.184672 | 0.143062 | 0.000000 | 0.491400 | 0.543478 | 0.000000 |
| 23 | 0.090876 | 0.000000 | 0.175131 | 0.000000 | 0.143062 | 0.165017 | 0.245700 | 0.000000 | 0.000000 |
| 24 | 0.054526 | 0.261097 | 0.087566 | 0.092336 | 0.143062 | 0.000000 | 0.000000 | 0.543478 | 0.000000 |
| 25 | 0.036350 | 0.000000 | 0.087566 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 26 | 0.036350 | 0.000000 | 0.000000 | 0.092336 | 0.143062 | 0.165017 | 0.000000 | 0.000000 | 0.000000 |
| 27 | 0.000000 | 0.087032 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 28 | 0.036350 | 0.087032 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 29 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.143062 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 30 | 0.018175 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 31 | 0.018175 | 0.000000 | 0.000000 | 0.000000 | 0.143062 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 32 | 0.018175 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.543478 | 0.000000 |
| 33 | 0.018175 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 34 | 0.018175 | 0.087032 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.245700 | 0.000000 | 0.000000 |
| 35 | 0.000000 | 0.087032 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 36 | 0.036350 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 38 | 0.000000 | 0.000000 | 0.000000 | 0.092336 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 41 | 0.000000 | 0.087032 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 43 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.165017 | 0.000000 | 0.000000 | 0.000000 |
| 44 | 0.018175 | 0.000000 | 0.000000 | 0.000000 | 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-4.10.3 | org.axonframework.eventhandling | 2331 | 838 | 64 | processBatch |
| 1 | axon-configuration-4.10.3 | org.axonframework.config | 1587 | 606 | 50 | <init> |
| 2 | axon-messaging-4.10.3 | org.axonframework.eventhandling.pooled | 1041 | 341 | 77 | run |
| 3 | axon-test-4.10.3 | org.axonframework.test.aggregate | 956 | 251 | 45 | appendEventOverview |
| 4 | axon-messaging-4.10.3 | org.axonframework.queryhandling | 953 | 388 | 36 | doQuery |
| 5 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector.event.axon | 872 | 279 | 35 | readMessages |
| 6 | axon-messaging-4.10.3 | org.axonframework.eventhandling.deadletter.jdbc | 848 | 249 | 31 | convertToLetter |
| 7 | axon-modelling-4.10.3 | org.axonframework.modelling.command | 843 | 335 | 19 | lambdainitializeHandler8 |
| 8 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector.query | 739 | 216 | 27 | query |
| 9 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector | 729 | 299 | 41 | build |
| 10 | axon-eventsourcing-4.10.3 | org.axonframework.eventsourcing.eventstore | 712 | 264 | 21 | peekPrivateStream |
| 11 | axon-messaging-4.10.3 | org.axonframework.messaging.annotation | 670 | 239 | 23 | <init> |
| 12 | axon-modelling-4.10.3 | org.axonframework.modelling.command.inspection | 637 | 218 | 26 | inspectFieldsAndMethods |
| 13 | axon-eventsourcing-4.10.3 | org.axonframework.eventsourcing | 622 | 251 | 20 | doScheduleSnapshot |
| 14 | axon-disruptor-4.10.3 | org.axonframework.disruptor.commandhandling | 605 | 184 | 32 | <init> |
| 15 | axon-eventsourcing-4.10.3 | org.axonframework.eventsourcing.eventstore.leg... | 573 | 187 | 25 | fetchTrackedEvents |
| 16 | axon-eventsourcing-4.10.3 | org.axonframework.eventsourcing.eventstore.jdbc | 568 | 236 | 24 | <init> |
| 17 | axon-spring-boot-autoconfigure-4.10.3 | org.axonframework.springboot.autoconfig | 567 | 192 | 34 | buildSerializer |
| 18 | axon-messaging-4.10.3 | org.axonframework.serialization | 537 | 181 | 22 | <init> |
| 19 | axon-messaging-4.10.3 | org.axonframework.eventhandling.deadletter.jp... | 525 | 132 | 28 | equals |
| 20 | axon-messaging-4.10.3 | org.axonframework.common | 498 | 144 | 24 | getExactDirectSuperTypesOfParameterizedTypeOrC... |
| 21 | axon-test-4.10.3 | org.axonframework.test.saga | 492 | 168 | 29 | <init> |
| 22 | axon-modelling-4.10.3 | org.axonframework.modelling.saga | 490 | 194 | 22 | handle |
| 23 | axon-messaging-4.10.3 | org.axonframework.commandhandling.gateway | 488 | 174 | 50 | createGateway |
| 24 | axon-messaging-4.10.3 | org.axonframework.commandhandling.distributed | 477 | 175 | 23 | dispatch |
| 25 | axon-messaging-4.10.3 | org.axonframework.eventhandling.tokenstore.jdbc | 430 | 130 | 26 | updateToken |

| | artifactName | fullPackageName | linesInPackage | methodCount | maxLinesMethod | maxLinesMethodName |
|----|-----------------------|---|----------------|-------------|----------------|--------------------|
| 26 | axon-messaging-4.10.3 | org.axonframework.eventhandling.deadletter.leg... | 401 | 97 | 21 | convert |
| 27 | axon-messaging-4.10.3 | org.axonframework.commandhandling | 377 | 169 | 13 | <init> |
| 28 | axon-modelling-4.10.3 | org.axonframework.modelling.saga.repository.jdbc | 374 | 84 | 38 | updateSaga |
| 29 | axon-messaging-4.10.3 | org.axonframework.messaging.unitofwork | 363 | 129 | 32 | executeWithResult |

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` .

| | index | artifactName | fullPackageName | maxLinesMethodType | maxLinesMet |
|----|-------|---------------------------------------|---|--|--|
| 0 | 2 | axon-messaging-4.10.3 | org.axonframework.eventhandling.pooled | Coordinator\$CoordinationTask | |
| 1 | 0 | axon-messaging-4.10.3 | org.axonframework.eventhandling | TrackingEventProcessor | proc |
| 2 | 23 | axon-messaging-4.10.3 | org.axonframework.commandhandling.gateway | CommandGatewayFactory | create |
| 3 | 1 | axon-configuration-4.10.3 | org.axonframework.config | DefaultConfigurer | |
| 4 | 3 | axon-test-4.10.3 | org.axonframework.test.aggregate | Reporter | appendEvent |
| 5 | 42 | axon-messaging-4.10.3 | org.axonframework.deadline.quartz | DeadlineJob | |
| 6 | 9 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector | AxonServerConnectionManager\$Builder | |
| 7 | 28 | axon-modelling-4.10.3 | org.axonframework.modelling.saga.repository.jdbc | JdbcSagaStore | up |
| 8 | 4 | axon-messaging-4.10.3 | org.axonframework.queryhandling | SimpleQueryBus | |
| 9 | 5 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector.event.axon | PersistentStreamConnectionSegmentConnectionP... | read |
| 10 | 17 | axon-spring-boot-autoconfigure-4.10.3 | org.axonframework.springboot.autoconfig | AxonAutoConfiguration | build |
| 11 | 34 | axon-messaging-4.10.3 | org.axonframework.messaging.deadletter | InMemorySequencedDeadLetterQueue | |
| 12 | 14 | axon-disruptor-4.10.3 | org.axonframework.disruptor.commandhandling | DisruptorCommandBus | |
| 13 | 29 | axon-messaging-4.10.3 | org.axonframework.messaging.unitofwork | BatchingUnitOfWork | executeV |
| 14 | 6 | axon-messaging-4.10.3 | org.axonframework.eventhandling.deadletter.jdbc | DefaultDeadLetterJdbcConverter | conve |
| 15 | 21 | axon-test-4.10.3 | org.axonframework.test.saga | SagaTestFixture | |
| 16 | 19 | axon-messaging-4.10.3 | org.axonframework.eventhandling.deadletter.jpa | DeadLetterEventEntry | |
| 17 | 8 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector.query | AxonServerQueryBus | |
| 18 | 12 | axon-modelling-4.10.3 | org.axonframework.modelling.command.inspection | AnnotatedAggregateMetaModelFactory\$AnnotatedAg... | inspectFieldsAn |
| 19 | 25 | axon-messaging-4.10.3 | org.axonframework.eventhandling.tokenstore.jdbc | JdbcTokenStore | upc |
| 20 | 15 | axon-eventsourcing-4.10.3 | org.axonframework.eventsourcing.eventstore.leg... | JpaEventStorageEngine | fetchTrack |
| 21 | 41 | axon-messaging-4.10.3 | org.axonframework.deadline | SimpleDeadlineManager\$DeadlineTask | |
| 22 | 16 | axon-eventsourcing-4.10.3 | org.axonframework.eventsourcing.eventstore.jdbc | JdbcEventStorageEngine | |
| 23 | 35 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector.command | AxonServerCommandBus | dc |
| 24 | 65 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector.event.util | EventCipher | |
| 25 | 20 | axon-messaging-4.10.3 | org.axonframework.common | TypeReflectionUtils | getExactDirectSuperTypesOfParameterizedT |

| index | artifactName | fullPackageName | maxLinesMethodType | maxLinesMet |
|-------|------------------------------|--|--------------------------------|-------------|
| 26 | 11 axon-messaging-4.10.3 | org.axonframework.messaging.annotation | AnnotatedMessageHandlingMember | |
| 27 | 56 axon-messaging-4.10.3 | org.axonframework.deadline.jobrunr | JobRunrDeadlineManager | |
| 28 | 33 axon-eventsourcing-4.10.3 | org.axonframework.eventsourcing.eventstore.jpa | JpaEventStorageEngine | fetchTrack |
| 29 | 24 axon-messaging-4.10.3 | org.axonframework.commandhandling.distributed | DistributedCommandBus | |

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-4.10.3.jar | axon-server-connector-4.10.3.jar | axon-eventsourcing-4.10.3.jar | axon-modelling-4.10.3.jar | axon-test-4.10.3.jar | axon-configuration-4.10.3.jar | axon-spring-boot-autoconfigure-4.10.3.jar | axon-disruptor-4.10.3.jar | axon-tracing-opentelemetry-4.10.3.jar |
|----------------------|---------------------------|----------------------------------|-------------------------------|---------------------------|----------------------|-------------------------------|---|---------------------------|---------------------------------------|
| cyclomaticComplexity | | | | | | | | | |
| 1 | 4431 | 967 | 943 | 899 | 520 | 542 | 386 | 146 | 35 |
| 2 | 462 | 87 | 94 | 75 | 61 | 37 | 10 | 20 | 8 |
| 3 | 284 | 42 | 53 | 40 | 59 | 17 | 4 | 5 | 2 |
| 4 | 141 | 24 | 24 | 29 | 23 | 5 | 3 | 4 | 1 |
| 5 | 74 | 7 | 9 | 24 | 13 | 3 | 1 | 3 | 0 |
| 6 | 46 | 3 | 4 | 10 | 9 | 0 | 2 | 2 | 0 |
| 7 | 20 | 6 | 7 | 2 | 4 | 2 | 0 | 2 | 0 |
| 8 | 12 | 6 | 7 | 1 | 2 | 0 | 0 | 2 | 0 |
| 9 | 7 | 3 | 0 | 2 | 2 | 0 | 0 | 0 | 0 |
| 10 | 4 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| 11 | 9 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 12 | 4 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 13 | 2 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 17 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 | 1 | 0 | 0 | 0 | 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 code.

| artifactName | axon-messaging-4.10.3.jar | axon-server-connector-4.10.3.jar | axon-event sourcing-4.10.3.jar | axon-modelling-4.10.3.jar | axon-test-4.10.3.jar | axon-configuration-4.10.3.jar | axon-spring-boot-autoconfigure-4.10.3.jar | axon-disruptor-4.10.3.jar | axon-tracing-opentelemetry-4.10.3.jar |
|----------------------|---------------------------|----------------------------------|--------------------------------|---------------------------|----------------------|-------------------------------|---|---------------------------|---------------------------------------|
| cyclomaticComplexity | | | | | | | | | |
| 1 | 80.534351 | 84.160139 | 82.574431 | 83.010157 | 74.391989 | 89.438944 | 94.840295 | 79.347826 | 76.086957 |
| 2 | 8.396947 | 7.571802 | 8.231173 | 6.925208 | 8.726753 | 6.105611 | 2.457002 | 10.869565 | 17.391304 |
| 3 | 5.161759 | 3.655352 | 4.640981 | 3.693444 | 8.440629 | 2.805281 | 0.982801 | 2.717391 | 4.347826 |
| 4 | 2.562704 | 2.088773 | 2.101576 | 2.677747 | 3.290415 | 0.825083 | 0.737101 | 2.173913 | 2.173913 |
| 5 | 1.344965 | 0.609225 | 0.788091 | 2.216066 | 1.859800 | 0.495050 | 0.245700 | 1.630435 | 0.000000 |
| 6 | 0.836060 | 0.261097 | 0.350263 | 0.923361 | 1.287554 | 0.000000 | 0.491400 | 1.086957 | 0.000000 |
| 7 | 0.363504 | 0.522193 | 0.612960 | 0.184672 | 0.572246 | 0.330033 | 0.000000 | 1.086957 | 0.000000 |
| 8 | 0.218103 | 0.522193 | 0.612960 | 0.092336 | 0.286123 | 0.000000 | 0.000000 | 1.086957 | 0.000000 |
| 9 | 0.127226 | 0.261097 | 0.000000 | 0.184672 | 0.286123 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 10 | 0.072701 | 0.174064 | 0.000000 | 0.000000 | 0.143062 | 0.000000 | 0.245700 | 0.000000 | 0.000000 |
| 11 | 0.163577 | 0.000000 | 0.000000 | 0.000000 | 0.286123 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 12 | 0.072701 | 0.087032 | 0.000000 | 0.000000 | 0.286123 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 13 | 0.036350 | 0.000000 | 0.087566 | 0.000000 | 0.143062 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 14 | 0.018175 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 15 | 0.018175 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 16 | 0.000000 | 0.087032 | 0.000000 | 0.092336 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 17 | 0.018175 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 21 | 0.018175 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 23 | 0.018175 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 40 | 0.018175 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |

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

<Figure size 640x480 with 0 Axes>

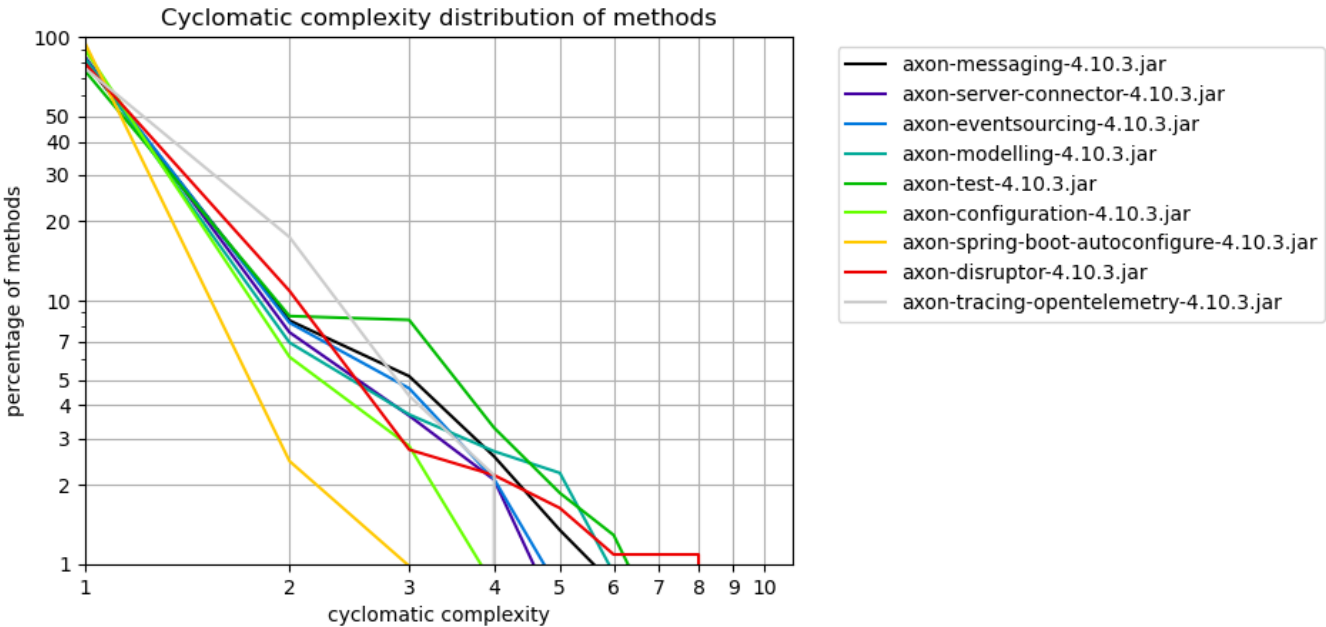


Table 2c - Top 30 packages with highest cyclomatic complexity

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 | maxComplexityMe |
|----|---------------------------------------|---|---------------------|-------------|---------------|--|
| 0 | axon-messaging-4.10.3 | org.axonframework.eventhandling | 1276 | 838 | 21 | processE |
| 1 | axon-configuration-4.10.3 | org.axonframework.config | 716 | 606 | 7 | invokeLifecycleHan |
| 4 | axon-messaging-4.10.3 | org.axonframework.queryhandling | 484 | 388 | 11 | doQ |
| 2 | axon-messaging-4.10.3 | org.axonframework.eventhandling.pooled | 460 | 341 | 23 | |
| 7 | axon-modelling-4.10.3 | org.axonframework.modelling.command | 455 | 335 | 9 | resolveTi |
| 5 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector.event.axon | 445 | 279 | 16 | readMess |
| 3 | axon-test-4.10.3 | org.axonframework.test.aggregate | 438 | 251 | 13 | ensureValuesE |
| 10 | axon-eventsourcing-4.10.3 | org.axonframework.eventsourcing.eventstore | 397 | 264 | 13 | has |
| 11 | axon-messaging-4.10.3 | org.axonframework.messaging.annotation | 386 | 239 | 14 | he |
| 9 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector | 355 | 299 | 12 | |
| 12 | axon-modelling-4.10.3 | org.axonframework.modelling.command.inspection | 339 | 218 | 9 | prepareHan |
| 13 | axon-eventsourcing-4.10.3 | org.axonframework.eventsourcing | 325 | 251 | 8 | doScheduleSnap |
| 6 | axon-messaging-4.10.3 | org.axonframework.eventhandling.deadletter.jdbc | 304 | 249 | 12 | ec |
| 20 | axon-messaging-4.10.3 | org.axonframework.common | 301 | 144 | 9 | getExactDirectSuperTypesOfParameterizedTypeC |
| 15 | axon-eventsourcing-4.10.3 | org.axonframework.eventsourcing.eventstore.leg... | 292 | 187 | 8 | withGapsCle |
| 8 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector.query | 292 | 216 | 9 | sti |
| 18 | axon-messaging-4.10.3 | org.axonframework.serialization | 285 | 181 | 7 | calculateR |
| 22 | axon-modelling-4.10.3 | org.axonframework.modelling.saga | 277 | 194 | 6 | he |
| 14 | axon-disruptor-4.10.3 | org.axonframework.disruptor.commandhandling | 274 | 184 | 8 | doDisr |
| 16 | axon-eventsourcing-4.10.3 | org.axonframework.eventsourcing.eventstore.jdbc | 273 | 236 | 7 | lambdafetchTrackedEven |
| 23 | axon-messaging-4.10.3 | org.axonframework.commandhandling.gateway | 249 | 174 | 12 | createGatr |
| 24 | axon-messaging-4.10.3 | org.axonframework.commandhandling.distributed | 243 | 175 | 12 | ec |
| 21 | axon-test-4.10.3 | org.axonframework.test.saga | 235 | 168 | 9 | assertDispatchedEqu |
| 17 | axon-spring-boot-autoconfigure-4.10.3 | org.axonframework.springboot.autoconfig | 224 | 192 | 10 | buildSeriz |
| 19 | axon-messaging-4.10.3 | org.axonframework.eventhandling.deadletter.jp | 212 | 132 | 15 | ec |
| 31 | axon-messaging-4.10.3 | org.axonframework.messaging | 209 | 156 | 4 | ec |

| | artifactName | fullPackageName | complexityInPackage | methodCount | maxComplexity | maxComplexityMe |
|----|-----------------------|--|---------------------|-------------|---------------|-----------------|
| 29 | axon-messaging-4.10.3 | org.axonframework.messaging.unitofwork | 206 | 129 | 11 | executeWithR |
| 27 | axon-messaging-4.10.3 | org.axonframework.commandhandling | 201 | 169 | 10 | < |
| 30 | axon-test-4.10.3 | org.axonframework.test.matchers | 191 | 108 | 8 | matche |
| 38 | axon-messaging-4.10.3 | org.axonframework.common.caching | 182 | 110 | 8 | onE |

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 | fullPackageName | maxComplexityType | maxComplexity |
|----|-------|---------------------------------------|---|--|---------------|
| 0 | 61 | axon-messaging-4.10.3 | org.axonframework.eventhandling.scheduling.job... | JobRunrEventScheduler | deseria |
| 1 | 2 | axon-messaging-4.10.3 | org.axonframework.eventhandling.pooled | Coordinator\$CoordinationTask | |
| 2 | 0 | axon-messaging-4.10.3 | org.axonframework.eventhandling | TrackingEventProcessor | I |
| 3 | 5 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector.event.axon | PersistentStreamConnection.SegmentConnectionP... | re |
| 4 | 39 | axon-modelling-4.10.3 | org.axonframework.modelling.saga.repository | AssociationValueMap\$AssociationValueComparator | |
| 5 | 19 | axon-messaging-4.10.3 | org.axonframework.eventhandling.deadletter.jpa | DeadLetterEventEntry | |
| 6 | 11 | axon-messaging-4.10.3 | org.axonframework.messaging.annotation | AnnotatedMessageHandlingMember | |
| 7 | 62 | axon-messaging-4.10.3 | org.axonframework.commandhandling.distributed.... | CommandNameFilter | deseria |
| 8 | 3 | axon-test-4.10.3 | org.axonframework.test.aggregate | AggregateTestFixture | ensur |
| 9 | 56 | axon-messaging-4.10.3 | org.axonframework.deadline.jobrunr | JobRunrDeadlineManager | deseria |
| 10 | 10 | axon-eventsourcing-4.10.3 | org.axonframework.eventsourcing.eventstore | ConcatenatingDomainEventStream | |
| 11 | 6 | axon-messaging-4.10.3 | org.axonframework.eventhandling.deadletter.jdbc | JdbcDeadLetter | |
| 12 | 46 | axon-messaging-4.10.3 | org.axonframework.common.jdbc | ConnectionWrapperFactory | le |
| 13 | 9 | axon-server-connector-4.10.3 | org.axonframework.axonserver.connector | AxonServerConnectionManager\$Builder | |
| 14 | 23 | axon-messaging-4.10.3 | org.axonframework.commandhandling.gateway | CommandGatewayFactory | cr |
| 15 | 45 | axon-test-4.10.3 | org.axonframework.test.server | AxonServerContainer | |
| 16 | 24 | axon-messaging-4.10.3 | org.axonframework.commandhandling.distributed | ReplyMessage | |
| 17 | 42 | axon-messaging-4.10.3 | org.axonframework.deadline.quartz | DeadlineJob | |
| 18 | 32 | axon-messaging-4.10.3 | org.axonframework.deadline.dbscheduler | DbSchedulerHumanReadableDeadlineDetails | |
| 19 | 29 | axon-messaging-4.10.3 | org.axonframework.messaging.unitofwork | BatchingUnitOfWork | execu |
| 20 | 26 | axon-messaging-4.10.3 | org.axonframework.eventhandling.deadletter.leg... | JpaDeadLetter | |
| 21 | 4 | axon-messaging-4.10.3 | org.axonframework.queryhandling | SimpleQueryBus | |
| 22 | 48 | axon-messaging-4.10.3 | org.axonframework.messaging.responsetypes | MultipleInstancesResponseType | |
| 23 | 59 | axon-messaging-4.10.3 | org.axonframework.common.lock | PessimisticLockFactory\$DisposableLock | |
| 24 | 17 | axon-spring-boot-autoconfigure-4.10.3 | org.axonframework.springboot.autoconfig | AxonAutoConfiguration | t |
| 25 | 27 | axon-messaging-4.10.3 | org.axonframework.commandhandling | MethodCommandHandlerDefinition\$MethodCommandMe... | |

| index | artifactName | fullPackageName | maxComplexityType | maxCompl |
|-------|-----------------------|---|---------------------|---------------------------------------|
| 26 | axon-messaging-4.10.3 | org.axonframework.messaging.deadletter | GenericDeadLetter | |
| 27 | axon-test-4.10.3 | org.axonframework.test.saga | CommandValidator | assertDispat |
| 28 | axon-messaging-4.10.3 | org.axonframework.common | TypeReflectionUtils | getExactDirectSuperTypesOfParameteriz |
| 29 | axon-messaging-4.10.3 | org.axonframework.eventhandling.tokenstore.jdbc | JdbcTokenStore | |