

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-4.10.0.jar | axon-eventsourcing-4.10.0.jar | axon-server-connector-4.10.0.jar | axon-modelling-4.10.0.jar | axon-test-4.10.0.jar | axon-configuration-4.10.0.jar | axon-spring-boot-autoconfigure-4.10.0.jar | axon-disruptor-4.10.0.jar | axon-tracing-opentelemetry-4.10.0.jar |
|--------------------|---------------------------|-------------------------------|----------------------------------|---------------------------|----------------------|-------------------------------|---|---------------------------|---------------------------------------|
| effectiveLineCount | | | | | | | | | |
| 1 | 2827 | 573 | 529 | 532 | 281 | 310 | 219 | 84 | 16 |
| 2 | 827 | 204 | 193 | 158 | 171 | 146 | 92 | 31 | 4 |
| 3 | 670 | 127 | 137 | 141 | 65 | 34 | 18 | 30 | 10 |
| 4 | 271 | 64 | 67 | 57 | 49 | 42 | 20 | 8 | 7 |
| 5 | 220 | 39 | 42 | 45 | 24 | 16 | 13 | 5 | 2 |
| 6 | 161 | 34 | 28 | 45 | 18 | 17 | 9 | 6 | 3 |
| 7 | 103 | 32 | 19 | 24 | 20 | 3 | 11 | 2 | 2 |
| 8 | 80 | 12 | 17 | 10 | 11 | 7 | 8 | 0 | 0 |
| 9 | 78 | 18 | 11 | 17 | 10 | 8 | 4 | 4 | 1 |
| 10 | 46 | 7 | 13 | 8 | 4 | 6 | 3 | 3 | 0 |
| 11 | 45 | 2 | 10 | 8 | 9 | 5 | 3 | 1 | 0 |
| 12 | 42 | 5 | 9 | 2 | 9 | 1 | 0 | 1 | 1 |
| 13 | 30 | 2 | 6 | 9 | 4 | 2 | 0 | 1 | 0 |
| 14 | 12 | 3 | 1 | 3 | 3 | 1 | 0 | 2 | 0 |
| 15 | 9 | 2 | 5 | 5 | 3 | 0 | 0 | 0 | 0 |
| 16 | 8 | 6 | 3 | 2 | 4 | 0 | 0 | 0 | 0 |
| 17 | 10 | 0 | 6 | 2 | 3 | 1 | 0 | 1 | 0 |
| 18 | 9 | 3 | 1 | 0 | 3 | 1 | 0 | 1 | 0 |
| 19 | 6 | 0 | 4 | 1 | 0 | 1 | 1 | 1 | 0 |
| 20 | 5 | 2 | 2 | 2 | 1 | 0 | 1 | 0 | 0 |
| 21 | 7 | 2 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 22 | 2 | 1 | 0 | 2 | 1 | 0 | 1 | 1 | 0 |
| 23 | 5 | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| 24 | 3 | 1 | 3 | 1 | 1 | 0 | 0 | 1 | 0 |
| 25 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 |
| 28 | 2 | 0 | 1 | 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 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 36 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 40 | 0 | 0 | 2 | 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 |
| 45 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 50 | 1 | 0 | 0 | 0 | 0 | 1 | 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-4.10.0.jar | axon-eventsourcing-4.10.0.jar | axon-server-connector-4.10.0.jar | axon-modelling-4.10.0.jar | axon-test-4.10.0.jar | axon-configuration-4.10.0.jar | axon-spring-boot-autoconfigure-4.10.0.jar | axon-disruptor-4.10.0.jar | axon-tracing-opentelemetry-4.10.0.jar |
|--------------------|---------------------------|-------------------------------|----------------------------------|---------------------------|----------------------|-------------------------------|---|---------------------------|---------------------------------------|
| effectiveLineCount | | | | | | | | | |
| 1 | 51.456134 | 50.175131 | 47.571942 | 49.396472 | 40.142857 | 51.155116 | 54.074074 | 45.652174 | 34.782609 |
| 2 | 15.052785 | 17.863398 | 17.356115 | 14.670381 | 24.428571 | 24.092409 | 22.716049 | 16.847826 | 8.695652 |
| 3 | 12.195122 | 11.120841 | 12.320144 | 13.091922 | 9.285714 | 5.610561 | 4.444444 | 16.304348 | 21.739130 |
| 4 | 4.932654 | 5.604203 | 6.025180 | 5.292479 | 7.000000 | 6.930693 | 4.938272 | 4.347826 | 15.217391 |
| 5 | 4.004368 | 3.415061 | 3.776978 | 4.178273 | 3.428571 | 2.640264 | 3.209877 | 2.717391 | 4.347826 |
| 6 | 2.930470 | 2.977233 | 2.517986 | 4.178273 | 2.571429 | 2.805281 | 2.222222 | 3.260870 | 6.521739 |
| 7 | 1.874772 | 2.802102 | 1.708633 | 2.228412 | 2.857143 | 0.495050 | 2.716049 | 1.086957 | 4.347826 |
| 8 | 1.456134 | 1.050788 | 1.528777 | 0.928505 | 1.571429 | 1.155116 | 1.975309 | 0.000000 | 0.000000 |
| 9 | 1.419731 | 1.576182 | 0.989209 | 1.578459 | 1.428571 | 1.320132 | 0.987654 | 2.173913 | 2.173913 |
| 10 | 0.837277 | 0.612960 | 1.169065 | 0.742804 | 0.571429 | 0.990099 | 0.740741 | 1.630435 | 0.000000 |
| 11 | 0.819075 | 0.175131 | 0.899281 | 0.742804 | 1.285714 | 0.825083 | 0.740741 | 0.543478 | 0.000000 |
| 12 | 0.764470 | 0.437828 | 0.809353 | 0.185701 | 1.285714 | 0.165017 | 0.000000 | 0.543478 | 2.173913 |
| 13 | 0.546050 | 0.175131 | 0.539568 | 0.835655 | 0.571429 | 0.330033 | 0.000000 | 0.543478 | 0.000000 |
| 14 | 0.218420 | 0.262697 | 0.089928 | 0.278552 | 0.428571 | 0.165017 | 0.000000 | 1.086957 | 0.000000 |
| 15 | 0.163815 | 0.175131 | 0.449640 | 0.464253 | 0.428571 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 16 | 0.145613 | 0.525394 | 0.269784 | 0.185701 | 0.571429 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 17 | 0.182017 | 0.000000 | 0.539568 | 0.185701 | 0.428571 | 0.165017 | 0.000000 | 0.543478 | 0.000000 |
| 18 | 0.163815 | 0.262697 | 0.089928 | 0.000000 | 0.428571 | 0.165017 | 0.000000 | 0.543478 | 0.000000 |
| 19 | 0.109210 | 0.000000 | 0.359712 | 0.092851 | 0.000000 | 0.165017 | 0.246914 | 0.543478 | 0.000000 |
| 20 | 0.091008 | 0.175131 | 0.179856 | 0.185701 | 0.142857 | 0.000000 | 0.246914 | 0.000000 | 0.000000 |
| 21 | 0.127412 | 0.175131 | 0.089928 | 0.092851 | 0.142857 | 0.165017 | 0.000000 | 0.000000 | 0.000000 |
| 22 | 0.036403 | 0.087566 | 0.000000 | 0.185701 | 0.142857 | 0.000000 | 0.246914 | 0.543478 | 0.000000 |
| 23 | 0.091008 | 0.175131 | 0.000000 | 0.000000 | 0.142857 | 0.165017 | 0.246914 | 0.000000 | 0.000000 |
| 24 | 0.054605 | 0.087566 | 0.269784 | 0.092851 | 0.142857 | 0.000000 | 0.000000 | 0.543478 | 0.000000 |
| 25 | 0.036403 | 0.087566 | 0.089928 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 26 | 0.036403 | 0.000000 | 0.000000 | 0.092851 | 0.142857 | 0.165017 | 0.000000 | 0.000000 | 0.000000 |
| 28 | 0.036403 | 0.000000 | 0.089928 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 29 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.142857 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 30 | 0.018202 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 31 | 0.018202 | 0.000000 | 0.000000 | 0.000000 | 0.142857 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 32 | 0.018202 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.543478 | 0.000000 |
| 33 | 0.018202 | 0.000000 | 0.089928 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 34 | 0.018202 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.246914 | 0.000000 | 0.000000 |
| 36 | 0.036403 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 38 | 0.000000 | 0.000000 | 0.000000 | 0.092851 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 40 | 0.000000 | 0.000000 | 0.179856 | 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 | 0.018202 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 45 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.142857 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 50 | 0.018202 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.165017 | 0.000000 | 0.000000 | 0.000000 |

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

<Figure size 640x480 with 0 Axes>

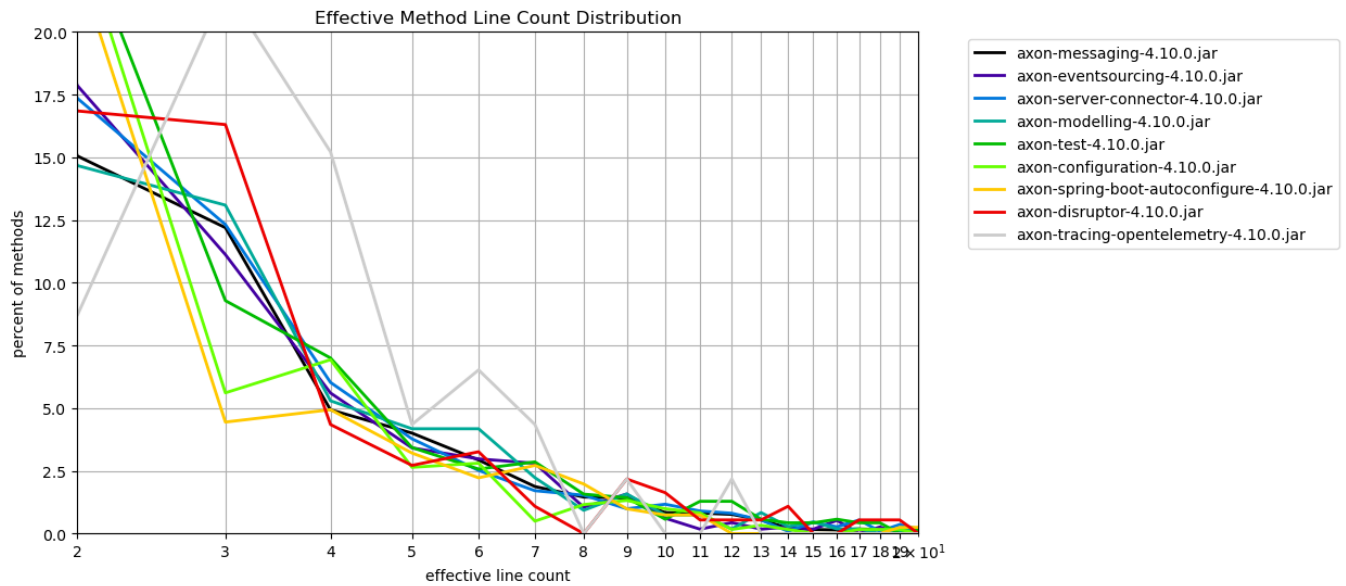


Table 1c - Top 30 packages with highest effective line counts

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-4.10.0 | org.axonframework.eventhandling | 2331 | 838 | 64 | processBatch |
| 1 | axon-configuration-4.10.0 | org.axonframework.config | 1587 | 606 | 50 | <init> |
| 2 | axon-messaging-4.10.0 | org.axonframework.eventhandling.pooled | 1041 | 341 | 77 | run |
| 3 | axon-test-4.10.0 | org.axonframework.test.aggregate | 956 | 252 | 45 | appendEventOverview |
| 4 | axon-messaging-4.10.0 | org.axonframework.queryhandling | 935 | 384 | 36 | doQuery |
| 5 | axon-messaging-4.10.0 | org.axonframework.eventhandling.deadletter.jdbc | 849 | 249 | 31 | convertToLetter |
| 6 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector.event.axon | 834 | 261 | 40 | readMessagesFromSegment |
| 7 | axon-modelling-4.10.0 | org.axonframework.modelling.command | 824 | 329 | 17 | lambdainitalizeHandler7 |
| 8 | axon-eventsourcing-4.10.0 | org.axonframework.eventsourcing.eventstore | 712 | 264 | 21 | peekPrivateStream |
| 9 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector | 701 | 292 | 40 | build |
| 10 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector.query | 699 | 204 | 25 | query |
| 11 | axon-messaging-4.10.0 | org.axonframework.messaging.annotation | 670 | 239 | 23 | <init> |
| 12 | axon-modelling-4.10.0 | org.axonframework.modelling.command.inspection | 637 | 218 | 26 | inspectFieldsAndMethods |
| 13 | axon-eventsourcing-4.10.0 | org.axonframework.eventsourcing | 622 | 251 | 20 | doScheduleSnapshot |
| 14 | axon-disruptor-4.10.0 | org.axonframework.disruptor.commandhandling | 605 | 184 | 32 | <init> |
| 15 | axon-eventsourcing-4.10.0 | org.axonframework.eventsourcing.eventstore.leg... | 573 | 187 | 25 | fetchTrackedEvents |
| 16 | axon-eventsourcing-4.10.0 | org.axonframework.eventsourcing.eventstore.jdbc | 568 | 236 | 24 | <init> |
| 17 | axon-spring-boot-autoconfigure-4.10.0 | org.axonframework.springboot.autoconfig | 565 | 192 | 34 | buildSerializer |
| 18 | axon-messaging-4.10.0 | org.axonframework.serialization | 537 | 181 | 22 | <init> |
| 19 | axon-messaging-4.10.0 | org.axonframework.eventhandling.deadletter.jpa | 522 | 132 | 28 | equals |
| 20 | axon-messaging-4.10.0 | org.axonframework.common | 498 | 144 | 24 | getExactDirectSuperTypesOfParameterizedTypeOrC... |
| 21 | axon-test-4.10.0 | org.axonframework.test.saga | 492 | 168 | 29 | <init> |
| 22 | axon-modelling-4.10.0 | org.axonframework.modelling.saga | 490 | 194 | 22 | handle |
| 23 | axon-messaging-4.10.0 | org.axonframework.commandhandling.gateway | 488 | 174 | 50 | createGateway |
| 24 | axon-messaging-4.10.0 | org.axonframework.commandhandling.distributed | 477 | 175 | 23 | dispatch |
| 25 | axon-messaging-4.10.0 | org.axonframework.eventhandling.tokenstore.jdbc | 430 | 130 | 26 | updateToken |

| | artifactName | fullPackageName | linesInPackage | methodCount | maxLinesMethod | maxLinesMethodName |
|----|-----------------------|---|----------------|-------------|----------------|--------------------|
| 26 | axon-messaging-4.10.0 | org.axonframework.eventhandling.deadletter.leg... | 401 | 97 | 21 | convert |
| 27 | axon-messaging-4.10.0 | org.axonframework.commandhandling | 377 | 169 | 13 | <init> |
| 28 | axon-modelling-4.10.0 | org.axonframework.modelling.saga.repository.jdbc | 374 | 84 | 38 | updateSaga |
| 29 | axon-messaging-4.10.0 | 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-4.10.0 | org.axonframework.eventhandling.pooled | Coordinator\$CoordinationTask | |
| 1 | 0 | axon-messaging-4.10.0 | org.axonframework.eventhandling | TrackingEventProcessor | proc |
| 2 | 23 | axon-messaging-4.10.0 | org.axonframework.commandhandling.gateway | CommandGatewayFactory | create |
| 3 | 1 | axon-configuration-4.10.0 | org.axonframework.config | DefaultConfigurer | |
| 4 | 3 | axon-test-4.10.0 | org.axonframework.test.aggregate | Reporter | appendEvent |
| 5 | 42 | axon-messaging-4.10.0 | org.axonframework.deadline.quartz | DeadlineJob | |
| 6 | 6 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector.event.axon | PersistentStreamConnection\$SegmentConnection | readMessagesFrom |
| 7 | 9 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector | AxonServerConnectionManager\$Builder | |
| 8 | 28 | axon-modelling-4.10.0 | org.axonframework.modelling.saga.repository.jdbc | JdbcSagaStore | up |
| 9 | 4 | axon-messaging-4.10.0 | org.axonframework.queryhandling | SimpleQueryBus | |
| 10 | 17 | axon-spring-boot-autoconfigure-4.10.0 | org.axonframework.springboot.autoconfig | AxonAutoConfiguration | build |
| 11 | 36 | axon-messaging-4.10.0 | org.axonframework.messaging.deadletter | InMemorySequencedDeadLetterQueue | |
| 12 | 14 | axon-disruptor-4.10.0 | org.axonframework.disruptor.commandhandling | DisruptorCommandBus | |
| 13 | 29 | axon-messaging-4.10.0 | org.axonframework.messaging.unitofwork | BatchingUnitOfWork | executeV |
| 14 | 5 | axon-messaging-4.10.0 | org.axonframework.eventhandling.deadletter.jdbc | DefaultDeadLetterJdbcConverter | conve |
| 15 | 21 | axon-test-4.10.0 | org.axonframework.test.saga | SagaTestFixture | |
| 16 | 19 | axon-messaging-4.10.0 | org.axonframework.eventhandling.deadletter.jpa | DeadLetterEventEntry | |
| 17 | 12 | axon-modelling-4.10.0 | org.axonframework.modelling.command.inspection | AnnotatedAggregateMetaModelFactory\$AnnotatedAg... | inspectFieldsAni |
| 18 | 25 | axon-messaging-4.10.0 | org.axonframework.eventhandling.tokenstore.jdbc | JdbcTokenStore | upc |
| 19 | 10 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector.query | AxonServerQueryBus | |
| 20 | 15 | axon-eventsourcing-4.10.0 | org.axonframework.eventsourcing.eventstore.leg... | JpaEventStorageEngine | fetchTrack |
| 21 | 41 | axon-messaging-4.10.0 | org.axonframework.deadline | SimpleDeadlineManager\$DeadlineTask | |
| 22 | 16 | axon-eventsourcing-4.10.0 | org.axonframework.eventsourcing.eventstore.jdbc | JdbcEventStorageEngine | |
| 23 | 34 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector.command | AxonServerCommandBus | dc |
| 24 | 65 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector.event.util | EventCipher | |
| 25 | 20 | axon-messaging-4.10.0 | org.axonframework.common | TypeReflectionUtils | getExactDirectSuperTypesOfParameterizedT |

| | index | artifactName | fullPackageName | maxLinesMethodType | maxLinesMet |
|----|-------|---------------------------|--|--------------------------------|-------------|
| 26 | 24 | axon-messaging-4.10.0 | org.axonframework.commandhandling.distributed | DistributedCommandBus | |
| 27 | 11 | axon-messaging-4.10.0 | org.axonframework.messaging.annotation | AnnotatedMessageHandlingMember | |
| 28 | 56 | axon-messaging-4.10.0 | org.axonframework.deadline.jobrunr | JobRunrDeadlineManager | |
| 29 | 33 | axon-eventsourcing-4.10.0 | org.axonframework.eventsourcing.eventstore.jpa | JpaEventStorageEngine | fetchTrack |

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-4.10.0.jar | axon-eventsourcing-4.10.0.jar | axon-server-connector-4.10.0.jar | axon-modelling-4.10.0.jar | axon-test-4.10.0.jar | axon-configuration-4.10.0.jar | axon-spring-boot-autoconfigure-4.10.0.jar | axon-disruptor-4.10.0.jar | axon-tracing-opentelemetry-4.10.0.jar |
|----------------------|---------------------------|-------------------------------|----------------------------------|---------------------------|----------------------|-------------------------------|---|---------------------------|---------------------------------------|
| cyclomaticComplexity | | | | | | | | | |
| 1 | 4425 | 943 | 938 | 895 | 521 | 542 | 385 | 146 | 35 |
| 2 | 460 | 94 | 84 | 75 | 61 | 37 | 9 | 20 | 8 |
| 3 | 284 | 53 | 37 | 38 | 60 | 17 | 4 | 5 | 2 |
| 4 | 141 | 24 | 25 | 29 | 22 | 5 | 3 | 4 | 1 |
| 5 | 74 | 9 | 6 | 24 | 13 | 3 | 1 | 3 | 0 |
| 6 | 46 | 4 | 3 | 10 | 9 | 0 | 2 | 2 | 0 |
| 7 | 20 | 7 | 6 | 2 | 4 | 2 | 0 | 2 | 0 |
| 8 | 12 | 7 | 6 | 1 | 3 | 0 | 0 | 2 | 0 |
| 9 | 7 | 0 | 3 | 2 | 1 | 0 | 0 | 0 | 0 |
| 10 | 4 | 0 | 2 | 0 | 1 | 0 | 1 | 0 | 0 |
| 11 | 9 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 12 | 4 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 |
| 13 | 2 | 1 | 0 | 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 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 17 | 1 | 0 | 1 | 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-4.10.0.jar | axon-eventsourcing-4.10.0.jar | axon-server-connector-4.10.0.jar | axon-modelling-4.10.0.jar | axon-test-4.10.0.jar | axon-configuration-4.10.0.jar | axon-spring-boot-autoconfigure-4.10.0.jar | axon-disruptor-4.10.0.jar | axon-tracing-opentelemetry-4.10.0.jar |
|----------------------|---------------------------|-------------------------------|----------------------------------|---------------------------|----------------------|-------------------------------|---|---------------------------|---------------------------------------|
| cyclomaticComplexity | | | | | | | | | |
| 1 | 80.542410 | 82.574431 | 84.352518 | 83.101207 | 74.428571 | 89.438944 | 95.061728 | 79.347826 | 76.086957 |
| 2 | 8.372770 | 8.231173 | 7.553957 | 6.963788 | 8.714286 | 6.105611 | 2.222222 | 10.869565 | 17.391304 |
| 3 | 5.169276 | 4.640981 | 3.327338 | 3.528319 | 8.571429 | 2.805281 | 0.987654 | 2.717391 | 4.347826 |
| 4 | 2.566436 | 2.101576 | 2.248201 | 2.692665 | 3.142857 | 0.825083 | 0.740741 | 2.173913 | 2.173913 |
| 5 | 1.346924 | 0.788091 | 0.539568 | 2.228412 | 1.857143 | 0.495050 | 0.246914 | 1.630435 | 0.000000 |
| 6 | 0.837277 | 0.350263 | 0.269784 | 0.928505 | 1.285714 | 0.000000 | 0.493827 | 1.086957 | 0.000000 |
| 7 | 0.364033 | 0.612960 | 0.539568 | 0.185701 | 0.571429 | 0.330033 | 0.000000 | 1.086957 | 0.000000 |
| 8 | 0.218420 | 0.612960 | 0.539568 | 0.092851 | 0.428571 | 0.000000 | 0.000000 | 1.086957 | 0.000000 |
| 9 | 0.127412 | 0.000000 | 0.269784 | 0.185701 | 0.142857 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 10 | 0.072807 | 0.000000 | 0.179856 | 0.000000 | 0.142857 | 0.000000 | 0.246914 | 0.000000 | 0.000000 |
| 11 | 0.163815 | 0.000000 | 0.000000 | 0.000000 | 0.285714 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 12 | 0.072807 | 0.000000 | 0.089928 | 0.000000 | 0.285714 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 13 | 0.036403 | 0.087566 | 0.000000 | 0.000000 | 0.142857 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 14 | 0.018202 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 15 | 0.018202 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 16 | 0.000000 | 0.000000 | 0.000000 | 0.092851 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 17 | 0.018202 | 0.000000 | 0.089928 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 21 | 0.018202 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 23 | 0.018202 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 | 0.000000 |
| 40 | 0.018202 | 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>

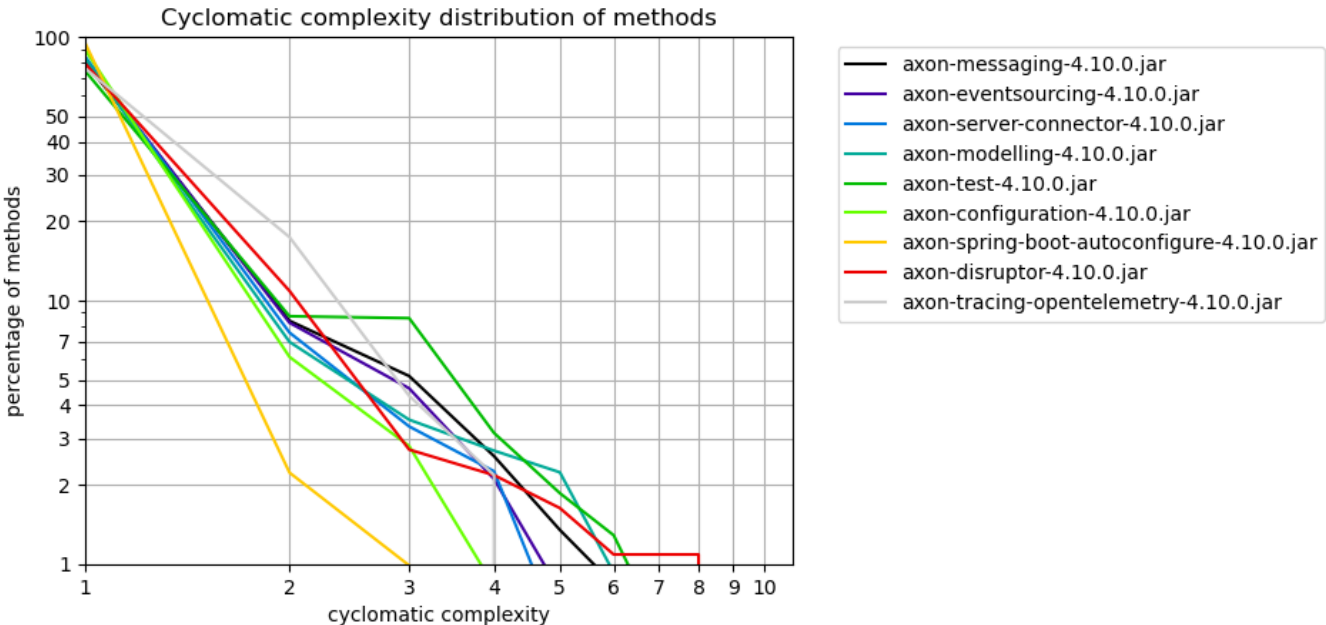


Table 2c - Top 30 packages with highest cyclomatic complexity

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-4.10.0 | org.axonframework.eventhandling | 1276 | 838 | 21 | processE |
| 1 | axon-configuration-4.10.0 | org.axonframework.config | 716 | 606 | 7 | invokeLifecycleHan |
| 4 | axon-messaging-4.10.0 | org.axonframework.queryhandling | 480 | 384 | 11 | doQ |
| 2 | axon-messaging-4.10.0 | org.axonframework.eventhandling.pooled | 460 | 341 | 23 | |
| 7 | axon-modelling-4.10.0 | org.axonframework.modelling.command | 445 | 329 | 9 | resolveTi |
| 3 | axon-test-4.10.0 | org.axonframework.test.aggregate | 438 | 252 | 13 | ensureValuesE |
| 6 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector.event.axon | 426 | 261 | 17 | readMessagesFromSegi |
| 8 | axon-eventsourcing-4.10.0 | org.axonframework.eventsourcing.eventstore | 397 | 264 | 13 | has |
| 11 | axon-messaging-4.10.0 | org.axonframework.messaging.annotation | 386 | 239 | 14 | he |
| 9 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector | 347 | 292 | 12 | |
| 12 | axon-modelling-4.10.0 | org.axonframework.modelling.command.inspection | 339 | 218 | 9 | prepareHan |
| 13 | axon-eventsourcing-4.10.0 | org.axonframework.eventsourcing | 325 | 251 | 8 | doScheduleSnap |
| 5 | axon-messaging-4.10.0 | org.axonframework.eventhandling.deadletter.jdbc | 304 | 249 | 12 | ec |
| 20 | axon-messaging-4.10.0 | org.axonframework.common | 301 | 144 | 9 | getExactDirectSuperTypesOfParameterizedTypeC |
| 15 | axon-eventsourcing-4.10.0 | org.axonframework.eventsourcing.eventstore.leg... | 292 | 187 | 8 | loadKeyViolationC |
| 18 | axon-messaging-4.10.0 | org.axonframework.serialization | 285 | 181 | 7 | calculateR |
| 22 | axon-modelling-4.10.0 | org.axonframework.modelling.saga | 277 | 194 | 6 | instantiateAssociationRes |
| 14 | axon-disruptor-4.10.0 | org.axonframework.disruptor.commandhandling | 274 | 184 | 8 | doDisq |
| 16 | axon-eventsourcing-4.10.0 | org.axonframework.eventsourcing.eventstore.jdbc | 273 | 236 | 7 | lambda\$cleanGa |
| 10 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector.query | 269 | 204 | 9 | sti |
| 23 | axon-messaging-4.10.0 | org.axonframework.commandhandling.gateway | 249 | 174 | 12 | createGatr |
| 24 | axon-messaging-4.10.0 | org.axonframework.commandhandling.distributed | 243 | 175 | 12 | ec |
| 21 | axon-test-4.10.0 | org.axonframework.test.saga | 235 | 168 | 9 | assertDispatchedEq |
| 17 | axon-spring-boot-autoconfigure-4.10.0 | org.axonframework.springboot.autoconfig | 223 | 192 | 10 | buildSeri |
| 19 | axon-messaging-4.10.0 | org.axonframework.eventhandling.deadletter.jp | 212 | 132 | 15 | ec |
| 31 | axon-messaging-4.10.0 | org.axonframework.messaging | 209 | 156 | 4 | |

| | artifactName | fullPackageName | complexityInPackage | methodCount | maxComplexity | maxComplexityMe |
|----|-----------------------|--|---------------------|-------------|---------------|-----------------|
| 29 | axon-messaging-4.10.0 | org.axonframework.messaging.unitofwork | 206 | 129 | 11 | executeWithR |
| 27 | axon-messaging-4.10.0 | org.axonframework.commandhandling | 201 | 169 | 10 | < |
| 30 | axon-test-4.10.0 | org.axonframework.test.matchers | 191 | 108 | 8 | matchingF |
| 38 | axon-messaging-4.10.0 | 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 | maxCompl |
|-------|----|---------------------------------------|---|--|---------------|
| 0 | 61 | axon-messaging-4.10.0 | org.axonframework.eventhandling.scheduling.job... | JobRunrEventScheduler | deseria |
| 1 | 2 | axon-messaging-4.10.0 | org.axonframework.eventhandling.pooled | Coordinator\$CoordinationTask | |
| 2 | 0 | axon-messaging-4.10.0 | org.axonframework.eventhandling | TrackingEventProcessor | I |
| 3 | 6 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector.event.axon | PersistentStreamConnection\$SegmentConnection | readMessagesF |
| 4 | 39 | axon-modelling-4.10.0 | org.axonframework.modelling.saga.repository | AssociationValueMap\$AssociationValueComparator | |
| 5 | 19 | axon-messaging-4.10.0 | org.axonframework.eventhandling.deadletter.jp | DeadLetterEventEntry | |
| 6 | 11 | axon-messaging-4.10.0 | org.axonframework.messaging.annotation | AnnotatedMessageHandlingMember | |
| 7 | 62 | axon-messaging-4.10.0 | org.axonframework.commandhandling.distributed.... | CommandNameFilter | deseria |
| 8 | 8 | axon-eventsourcing-4.10.0 | org.axonframework.eventsourcing.eventstore | ConcatenatingDomainEventStream | |
| 9 | 3 | axon-test-4.10.0 | org.axonframework.test.aggregate | AggregateTestFixture | ensure |
| 10 | 56 | axon-messaging-4.10.0 | org.axonframework.deadline.jobrunr | JobRunrDeadlineManager | deseria |
| 11 | 5 | axon-messaging-4.10.0 | org.axonframework.eventhandling.deadletter.jdbc | JdbcDeadLetter | |
| 12 | 9 | axon-server-connector-4.10.0 | org.axonframework.axonserver.connector | AxonServerConnectionManager\$Builder | |
| 13 | 23 | axon-messaging-4.10.0 | org.axonframework.commandhandling.gateway | CommandGatewayFactory | cr |
| 14 | 45 | axon-messaging-4.10.0 | org.axonframework.common.jdbc | ConnectionWrapperFactory | le |
| 15 | 24 | axon-messaging-4.10.0 | org.axonframework.commandhandling.distributed | ReplyMessage | |
| 16 | 46 | axon-test-4.10.0 | org.axonframework.test.server | AxonServerContainer | |
| 17 | 42 | axon-messaging-4.10.0 | org.axonframework.deadline.quartz | DeadlineJob | |
| 18 | 32 | axon-messaging-4.10.0 | org.axonframework.deadline.dbscheduler | DbSchedulerBinaryDeadlineDetails | |
| 19 | 29 | axon-messaging-4.10.0 | org.axonframework.messaging.unitofwork | BatchingUnitOfWork | execu |
| 20 | 26 | axon-messaging-4.10.0 | org.axonframework.eventhandling.deadletter.leg... | JpaDeadLetter | |
| 21 | 4 | axon-messaging-4.10.0 | org.axonframework.queryhandling | SimpleQueryBus | |
| 22 | 48 | axon-messaging-4.10.0 | org.axonframework.messaging.responsetypes | MultipleInstancesResponseType | |
| 23 | 59 | axon-messaging-4.10.0 | org.axonframework.common.lock | PessimisticLockFactory\$DisposableLock | |
| 24 | 17 | axon-spring-boot-autoconfigure-4.10.0 | org.axonframework.springboot.autoconfig | AxonAutoConfiguration | t |
| 25 | 27 | axon-messaging-4.10.0 | org.axonframework.commandhandling | MethodCommandHandlerDefinition\$MethodCommandMe... | |

| index | artifactName | fullPackageName | maxComplexityType | maxCompl |
|-------|-----------------------|---|---------------------|---------------------------------------|
| 26 | axon-messaging-4.10.0 | org.axonframework.messaging.deadletter | GenericDeadLetter | |
| 27 | axon-test-4.10.0 | org.axonframework.test.saga | CommandValidator | assertDispat |
| 28 | axon-messaging-4.10.0 | org.axonframework.common | TypeReflectionUtils | getExactDirectSuperTypesOfParameteriz |
| 29 | axon-messaging-4.10.0 | org.axonframework.eventhandling.tokenstore.jdbc | JdbcTokenStore | |