Overview of Java Artifacts with Neo4j

References

- jqassistant
- py2neo

Artifacts

Table 1 - Types per artifact

	artifactName	languageElement	numberOfTypes
0	axon-test-4.7.5	Class	69
1	axon-test-4.7.5	Interface	16
2	axon-disruptor-4.7.5	Class	22
3	axon-eventsourcing-4.7.5	Interface	31
4	axon-eventsourcing-4.7.5	Class	96
5	axon-eventsourcing-4.7.5	Enum	2
6	axon-eventsourcing-4.7.5	Annotation	1
7	axon-messaging-4.7.5	Class	541
8	axon-messaging-4.7.5	Interface	143
9	axon-messaging-4.7.5	Annotation	26
10	axon-messaging-4.7.5	Enum	19
11	axon-modelling-4.7.5	Annotation	12
12	axon-modelling-4.7.5	Class	108
13	axon-modelling-4.7.5	Enum	3
14	axon-modelling-4.7.5	Interface	26
15	axon-configuration-4.7.5	Class	22
16	axon-configuration-4.7.5	Interface	15
17	axon-configuration-4.7.5	Enum	1
18	axon-configuration-4.7.5	Annotation	1

Table 2 - Types per artifact (grouped)

languageElement artifactName	Class	Interface	Annotation	Enum
axon-messaging-4.7.5	541	143	26	19
axon-modelling-4.7.5	108	26	12	3
axon-eventsourcing-4.7.5	96	31	1	2
axon-test-4.7.5	69	16	0	0
axon-configuration-4.7.5	22	15	1	1
axon-disruptor-4.7.5	22	0	0	0

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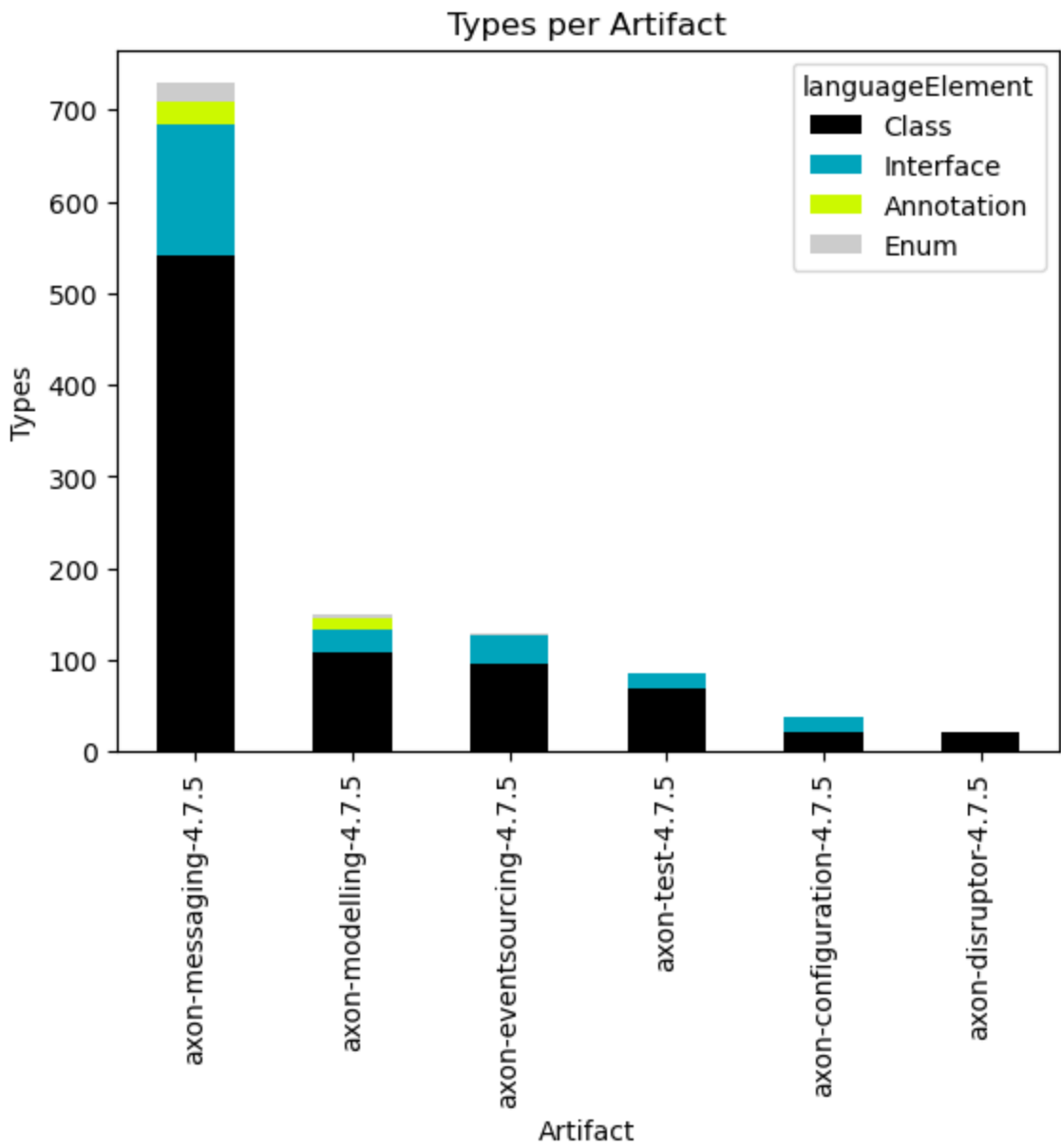
Table 3 - Types per artifact (grouped and normalized in %)

languageElement artifactName	Class	Interface	Annotation	Enum
axon-messaging-4.7.5	74.211248	19.615912	3.566529	2.606310
axon-modelling-4.7.5	72.483221	17.449664	8.053691	2.013423
axon-eventsourcing-4.7.5	73.846154	23.846154	0.769231	1.538462
axon-test-4.7.5	81.176471	18.823529	0.000000	0.000000
axon-configuration-4.7.5	56.410256	38.461538	2.564103	2.564103
axon-disruptor-4.7.5	100.000000	0.000000	0.000000	0.000000

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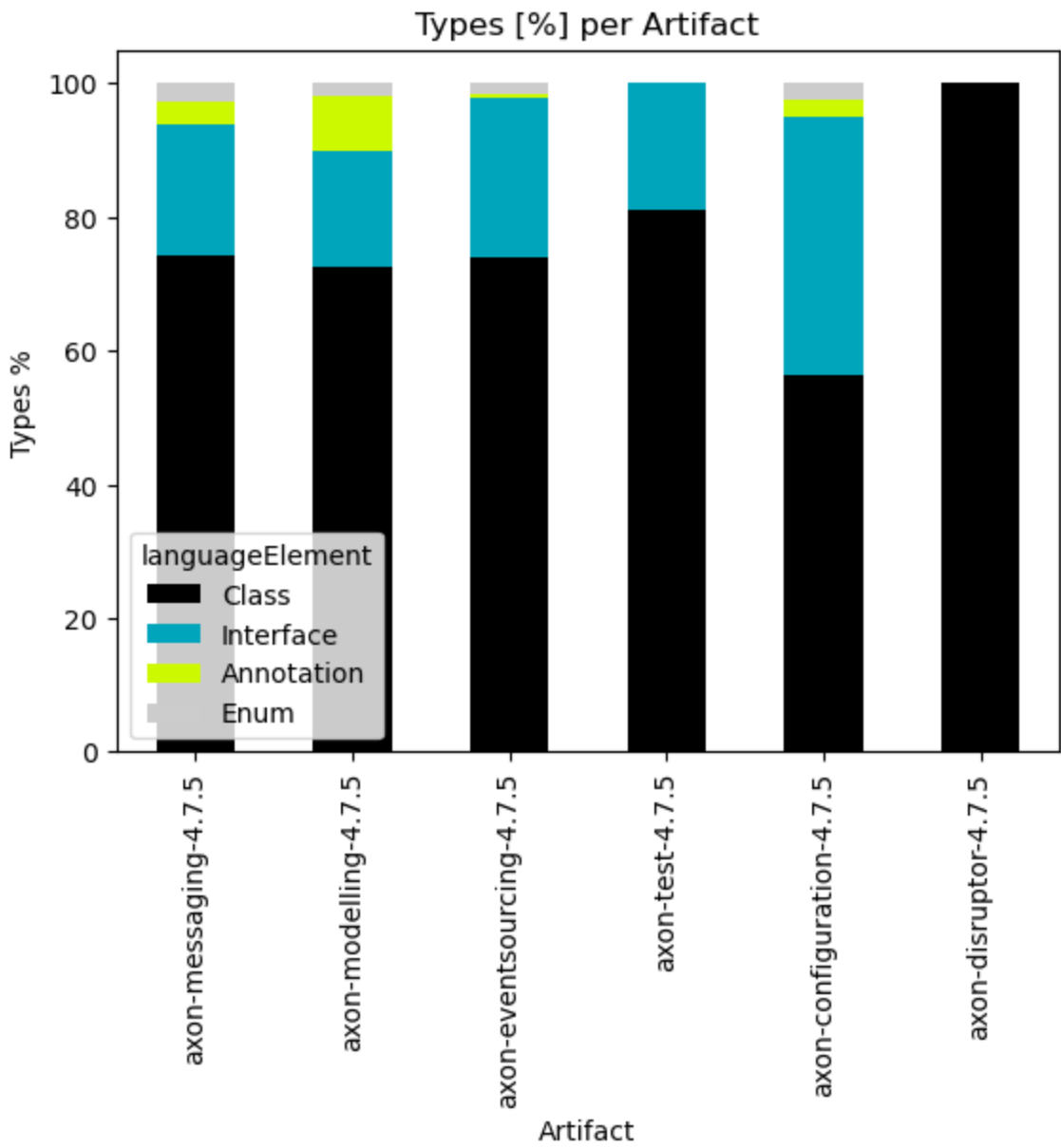

Table 4 - Number of packages per artifact

	numberOfPackages
artifactName	
axon-messaging-4.7.5	61
axon-modelling-4.7.5	10
axon-eventsourcing-4.7.5	9
axon-test-4.7.5	8
axon-disruptor-4.7.5	1
axon-configuration-4.7.5	1

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Packages per Artifact
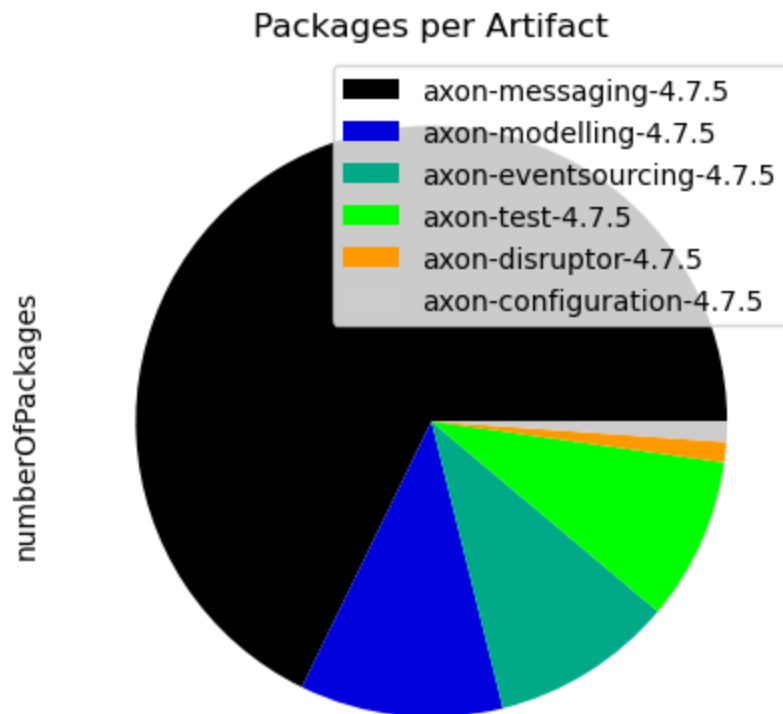
Effective Method Line Count

Table 5 - Effective method line count distribution

The table shown here only includes the first 10 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-configuration-4.7.5.jar	axon-disruptor-4.7.5.jar	axon-eventsourcing-4.7.5.jar	axon-messaging-4.7.5.jar	axon-modelling-4.7.5.jar	axon-test-4.7.5.jar
effectiveLineCount						
1	304	84	566	2503	508	267
2	135	31	197	723	141	159
3	33	30	123	556	133	62
4	33	8	63	244	55	48
5	14	5	40	198	48	23
6	16	6	33	128	38	17
7	2	2	30	92	24	19
8	9	0	11	73	11	10
9	8	4	17	63	8	10
10	4	3	8	35	7	5

Table 6 - Effective method line count distribution (normalized)

The table shown here only includes the first 10 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-configuration-4.7.5.jar	axon-disruptor-4.7.5.jar	axon-eventsourcing-4.7.5.jar	axon-messaging-4.7.5.jar	axon-modelling-4.7.5.jar	axon-test-4.7.5.jar
effectiveLineCount						
1	52.961672	45.652174	50.535714	52.211097	50.148075	40.393343
2	23.519164	16.847826	17.589286	15.081352	13.919052	24.054463
3	5.749129	16.304348	10.982143	11.597831	13.129319	9.379728
4	5.749129	4.347826	5.625000	5.089695	5.429418	7.261725
5	2.439024	2.717391	3.571429	4.130163	4.738401	3.479576
6	2.787456	3.260870	2.946429	2.670004	3.751234	2.571861
7	0.348432	1.086957	2.678571	1.919065	2.369200	2.874433
8	1.567944	0.000000	0.982143	1.522737	1.085884	1.512859
9	1.393728	2.173913	1.517857	1.314143	0.789733	1.512859
10	0.696864	1.630435	0.714286	0.730079	0.691017	0.756430

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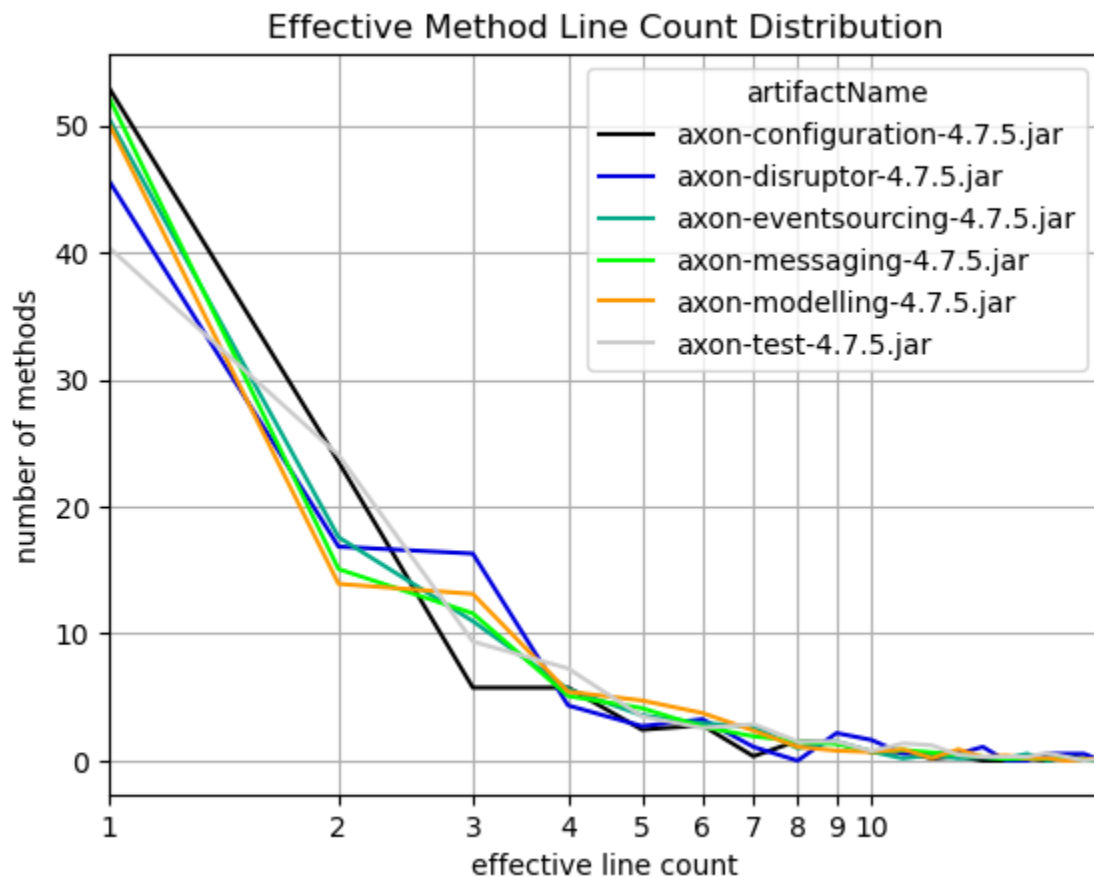## Effective Method Line Count Distribution

Table 7 - Cyclomatic method complexity distribution

The table shown here only includes the first 10 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-configuration-4.7.5.jar	axon-disruptor-4.7.5.jar	axon-eventsourcing-4.7.5.jar	axon-messaging-4.7.5.jar	axon-modelling-4.7.5.jar	axon-test-4.7.5.jar
cyclomaticComplexity						
1	515	146	924	3839	835	492
2	37	20	91	408	74	60
3	13	5	54	261	37	55
4	3	4	24	122	28	21
5	3	3	9	64	22	12
6	1	2	3	43	11	8
7	2	2	7	19	2	4
8	0	2	7	9	1	3
9	0	0	0	7	2	1
10	0	0	0	4	0	1

Table 8 - Cyclomatic method complexity distribution (normalized)

The table shown here only includes the first 10 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 cyclomaticComplexity	axon-configuration-4.7.5.jar	axon-disruptor-4.7.5.jar	axon-eventsourcing-4.7.5.jar	axon-messaging-4.7.5.jar	axon-modelling-4.7.5.jar	axon-test-4.7.5.jar
1	89.721254	79.347826	82.500000	80.079266	82.428430	74.432678
2	6.445993	10.869565	8.125000	8.510638	7.305035	9.077156
3	2.264808	2.717391	4.821429	5.444305	3.652517	8.320726
4	0.522648	2.173913	2.142857	2.544848	2.764067	3.177005
5	0.522648	1.630435	0.803571	1.335002	2.171767	1.815431
6	0.174216	1.086957	0.267857	0.896955	1.085884	1.210287
7	0.348432	1.086957	0.625000	0.396329	0.197433	0.605144
8	0.000000	1.086957	0.625000	0.187735	0.098717	0.453858
9	0.000000	0.000000	0.000000	0.146016	0.197433	0.151286
10	0.000000	0.000000	0.000000	0.083438	0.000000	0.151286

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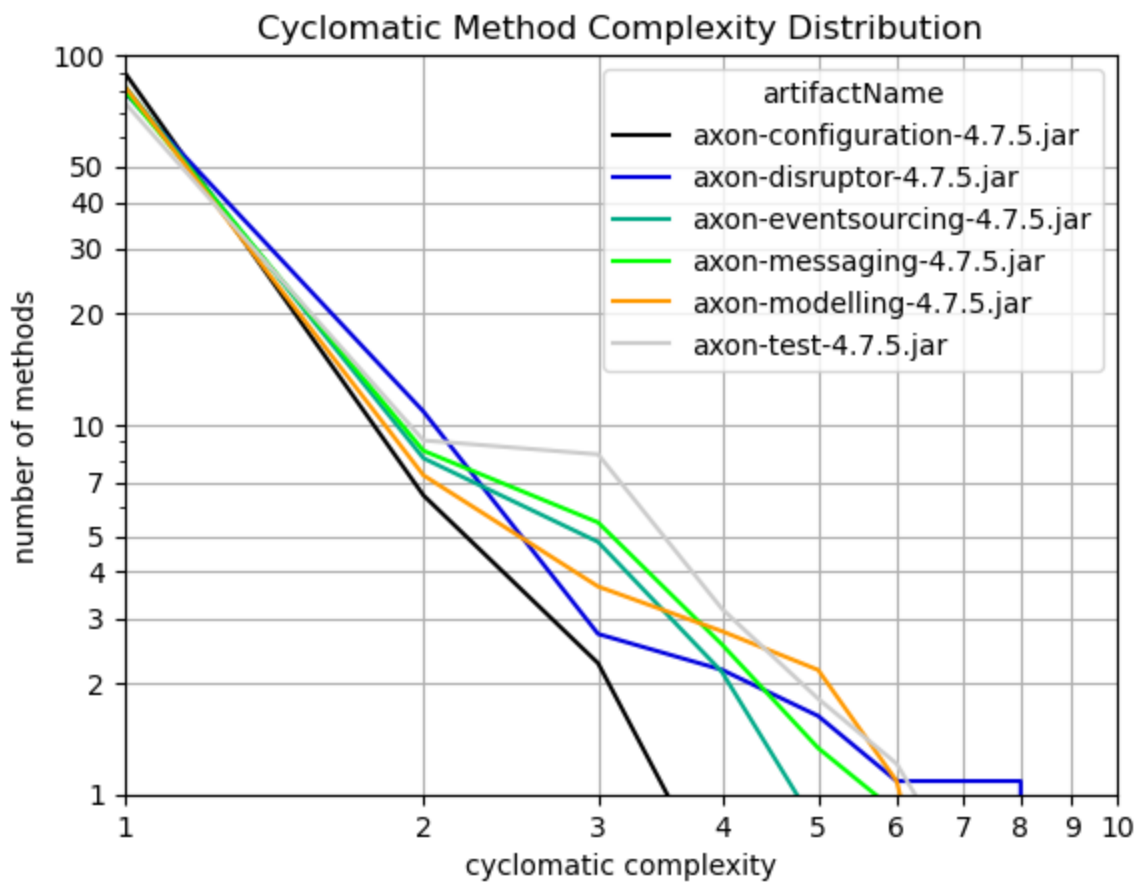
Table 9 - Top 10 packages with highest effective line counts

	artifactName	fullPackageName	linesInPackage	methodCount	maxLinesMethod	maxLinesMethodName
0	axon-messaging-4.7.5	org.axonframework.eventhandling	2187	786	64	processBatch
1	axon-configuration-4.7.5	org.axonframework.config	1474	574	42	<init>
2	axon-messaging-4.7.5	org.axonframework.eventhandling.pooled	939	308	70	run
3	axon-test-4.7.5	org.axonframework.test.aggregate	937	249	45	appendEventOverview
4	axon-messaging-4.7.5	org.axonframework.queryhandling	832	333	36	doQuery
5	axon-modelling-4.7.5	org.axonframework.modelling.command	784	315	17	$lambda\:initializeHandler7$
6	axon-eventsourcing-4.7.5	org.axonframework.eventsourcing.eventstore	697	259	21	peekPrivateStream
7	axon-messaging-4.7.5	org.axonframework.messaging.annotation	673	239	23	<init>
8	axon-modelling-4.7.5	org.axonframework.modelling.command.inspection	629	215	26	inspectFieldsAndMethods
9	axon-disruptor-4.7.5	org.axonframework.disruptor.commandhandling	605	184	32	<init>

Table 10 - Top 10 methods with highest effective line counts

	artifactName	fullPackageName	maxLinesMethodType	maxLinesMethodName	maxLinesMethod
0	axon-messaging-4.7.5	org.axonframework.eventhandling.pooled	Coordinator$CoordinationTask	run	70
1	axon-messaging-4.7.5	org.axonframework.eventhandling	TrackingEventProcessor	processBatch	64
2	axon-messaging-4.7.5	org.axonframework.commandhandling.gateway	CommandGatewayFactory	createGateway	50
3	axon-test-4.7.5	org.axonframework.test.aggregate	Reporter	appendEventOverview	45
4	axon-configuration-4.7.5	org.axonframework.config	EventProcessingModule	<init>	42
5	axon-messaging-4.7.5	org.axonframework.deadline.quartz	DeadlineJob	execute	42
6	axon-modelling-4.7.5	org.axonframework.modelling.saga.repository.jdbc	JdbcSagaStore	updateSaga	38
7	axon-messaging-4.7.5	org.axonframework.queryhandling	SimpleQueryBus	doQuery	36
8	axon-messaging-4.7.5	org.axonframework.messaging.deadletter	InMemorySequencedDeadLetterQueue	process	33
9	axon-disruptor-4.7.5	org.axonframework.disruptor.commandhandling	DisruptorCommandBus	<init>	32

Table 11 - Top 10 methods with highest cyclomatic complexity

	artifactName	fullPackageName	maxComplexityType	maxComplexityMethod	maxComplexity
0	axon-messaging-4.7.5	org.axonframework.eventhandling.scheduling.job...	JobRunrEventScheduler	$deserializeLambda$	40
1	axon-messaging-4.7.5	org.axonframework.eventhandling	TrackingEventProcessor	processBatch	21
2	axon-messaging-4.7.5	org.axonframework.eventhandling.pooled	Coordinator$CoordinationTask	run	21
3	axon-modelling-4.7.5	org.axonframework.modelling.saga.repository	AssociationValueMap$AssociationValueComparator	compare	16
4	axon-messaging-4.7.5	org.axonframework.eventhandling.deadletter.jpa	DeadLetterEventEntry	equals	15
5	axon-messaging-4.7.5	org.axonframework.messaging.annotation	AnnotatedMessageHandlingMember	handle	14
6	axon-messaging-4.7.5	org.axonframework.commandhandling.distributed....	CommandNameFilter	$deserializeLambda$	13
7	axon-messaging-4.7.5	org.axonframework.deadline.jobrunr	JobRunrDeadlineManager	$deserializeLambda$	13
8	axon-eventsourcing-4.7.5	org.axonframework.eventsourcing.eventstore	ConcatenatingDomainEventStream	hasNext	13
9	axon-test-4.7.5	org.axonframework.test.aggregate	AggregateTestFixture	ensureValuesEqual	13