

Table. Comparison Of Accuracy Rates based on Four Types Of Configurations

System	Merged Best configuration ($Th_1 = SSW_{med}$)	PCA-based configuration ($Th_1 = SSW_{med}$)	Variance coefficient based configuration ($Th_1 = SSW_{med}$)	MoJoFM ($\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \eta = 0.1$ and $Th_1 = SSW_{med}$)
Elasticsearch	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9060)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5314)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5314)	0.9060
Android-async-http	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8976)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5611)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5611)	0.8976
Iosched	$\alpha = 0.5, \beta = 0.1, \gamma = 0.3, \delta = 0.1$ (0.9180)	$\alpha = 0.3, \beta = 0.2, \gamma = 0.1, \delta = 0.4$ (0.5827)	$\alpha = 0.3, \beta = 0.1, \gamma = 0.1, \delta = 0.5$ (0.5470)	0.9156
Libgdx	$\alpha = 0.6, \beta = 0.1, \gamma = 0.2, \delta = 0.1$ (0.9112)	$\alpha = 0.3, \beta = 0.1, \gamma = 0, \delta = 0.6$ (0.5405)	$\alpha = 0.2, \beta = 0.1, \gamma = 0.1, \delta = 0.6$ (0.5532)	0.9077
Android-annotations	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9123)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5590)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5384)	0.9123
Okhttp	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8808)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5519)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5057)	0.8808
RxJava	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9489)	$\alpha = 0.3, \beta = 0.1, \gamma = 0, \delta = 0.6$ (0.5788)	$\alpha = 0.3, \beta = 0.1, \gamma = 0.1, \delta = 0.5$ (0.5214)	0.9489
Spring-framework	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9552)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5247)	$\alpha = 0.2, \beta = 0.1, \gamma = 0.1, \delta = 0.6$ (0.5883)	0.9287
Zxing	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9287)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5075)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5303)	0.8945
MPAndroidChart	$\alpha = 0.6, \beta = 0.1, \gamma = 0.2, \delta = 0.1$ (0.9014)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5893)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5016)	0.8938
Netty	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9002)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5101)	$\alpha = 0.3, \beta = 0.1, \gamma = 0.1, \delta = 0.5$ (0.5618)	0.9002
Guava	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8958)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5138)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5560)	0.8958
Junit	$\alpha = 0.6, \beta = 0.1, \gamma = 0.2, \delta = 0.1$ (0.9501)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (.5031)	$\alpha = 0.2, \beta = 0.1, \gamma = 0.1, \delta = 0.6$ (0.5319)	0.9488
Presto	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9049)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5382)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5771)	0.9049
Glide	$\alpha = 0.6, \beta = 0.1, \gamma = 0.2, \delta = 0.1$ (0.8912)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5565)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5222)	0.8883
Disruptor	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8975)	$\alpha = 0.3, \beta = 0.1, \gamma = 0, \delta = 0.6$ (0.5115)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5711)	0.8975
Stetho	$\alpha = 0.5, \beta = 0.1, \gamma = 0.3, \delta = 0.1$ (0.9122)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5655)	$\alpha = 0.2, \beta = 0.1, \gamma = 0.1, \delta = 0.6$ (0.5808)	0.9073
Titan	$\alpha = 0.5, \beta = 0.1, \gamma = 0.3, \delta = 0.1$ (0.9078)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5532)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5050)	0.8919
Fastjson	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9504)	$\alpha = 0.3, \beta = 0.2, \gamma = 0.1, \delta = 0.4$ (0.5546)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5560)	0.9504
AndroidAsync	$\alpha = 0.5, \beta = 0.1, \gamma = 0.3, \delta = 0.1$ (0.9123)	$\alpha = 0.3, \beta = 0.1, \gamma = 0, \delta = 0.6$ (0.5332)	$\alpha = 0.3, \beta = 0.1, \gamma = 0.1, \delta = 0.5$ (0.5560)	0.8958
gradle	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9059)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5098)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5660)	0.9059
HoloEverywhere	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8931)	$\alpha = 0.3, \beta = 0.1, \gamma = 0, \delta = 0.6$ (0.5108)	$\alpha = 0.2, \beta = 0.1, \gamma = 0.1, \delta = 0.6$ (0.5968)	0.8931
Storm	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9174)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5085)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5764)	0.9174

System	Merged Best configuration ($Th_1 = SSW_{med}$)	PCA-based configuration ($Th_1 = SSW_{med}$)	Variance coefficient based configuration ($Th_1 = SSW_{med}$)	MoJoFM ($\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \eta = 0.1$ and $Th_1 = SSW_{med}$)
Guice	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9115)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5114)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5677)	0.9115
Dubbo	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9028)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5061)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5660)	0.9028
Orientdb	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9028)	$\alpha = 0.3, \beta = 0.1, \gamma = 0, \delta = 0.6$ (0.5048)	$\alpha = 0.3, \beta = 0.1, \gamma = 0.1, \delta = 0.5$ (0.5706)	0.8964
Neo4j	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8964)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5072)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5110)	0.8912
jna	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8912)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5056)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5881)	0.8988
Smile	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8908)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5064)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5572)	0.8908
Tachyon	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8991)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5040)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5628)	0.8991
ExoPlayer	$\alpha = 0.6, \beta = 0.1, \gamma = 0.2, \delta = 0.1$ (0.8991)	$\alpha = 0.3, \beta = 0.1, \gamma = 0, \delta = 0.6$ (0.5140)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5794)	0.8983
Grails	$\alpha = 0.5, \beta = 0.1, \gamma = 0.3, \delta = 0.1$ (0.9196)	$\alpha = 0.3, \beta = 0.1, \gamma = 0, \delta = 0.6$ (0.5868)	$\alpha = 0.2, \beta = 0.1, \gamma = 0.1, \delta = 0.6$ (0.5132)	0.9125
Mockito	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9125)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5850)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5612)	0.9084
Mongo-java-driver	$\alpha = 0.5, \beta = 0.1, \gamma = 0.3, \delta = 0.1$ (0.9008)	$\alpha = 0.3, \beta = 0.2, \gamma = 0.1, \delta = 0.4$ (0.5041)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5628)	0.8992
Hibernate-orm	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9162)	$\alpha = 0.3, \beta = 0.2, \gamma = 0.1, \delta = 0.4$ (0.5033)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5529)	0.9162
Deeplearning4j	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8947)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5663)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5756)	0.8947
Hazelcast	$\alpha = 0.5, \beta = 0.1, \gamma = 0.3, \delta = 0.1$ (0.9321)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5075)	$\alpha = 0.3, \beta = 0.1, \gamma = 0.1, \delta = 0.5$ (0.5608)	0.9113
Jadx	$\alpha = 0.5, \beta = 0.1, \gamma = 0.3, \delta = 0.1$ (0.9432)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5247)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5454)	0.9253
Blueprints	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9098)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5247)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5247)	0.9098
Quasar	$\alpha = 0.5, \beta = 0.1, \gamma = 0.3, \delta = 0.1$ (0.9321)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5788)	$\alpha = 0.3, \beta = 0.1, \gamma = 0.1, \delta = 0.5$ (0.5896)	0.9224
Cucumber-jvm	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9294)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5837)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5315)	0.9294
Webmagic	$\alpha = 0.6, \beta = 0.1, \gamma = 0.2, \delta = 0.1$ (0.9014)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5077)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5558)	0.8979
Zookeeper	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.9648)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5092)	$\alpha = 0.3, \beta = 0.1, \gamma = 0.1, \delta = 0.5$ (0.5570)	0.9648
ninja	$\alpha = 0.5, \beta = 0.1, \gamma = 0.3, \delta = 0.1$ (0.8976)	$\alpha = 0.3, \beta = 0.1, \gamma = 0, \delta = 0.6$ (0.5441)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5908)	0.8773
Rundeck	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8994)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5131)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5620)	0.8994
Moco	$\alpha = 0.5, \beta = 0.1, \gamma = 0.3, \delta = 0.1$ (0.8988)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5472)	$\alpha = 0.2, \beta = 0.1, \gamma = 0.1, \delta = 0.6$ (0.5583)	0.8926
Flyway	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.12$ (0.8994)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5101)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5101)	0.8994

System	Merged Best configuration ($Th_1 = SSW_{med}$)	PCA-based configuration ($Th_1 = SSW_{med}$)	Variance coefficient based configuration ($Th_1 = SSW_{med}$)	MoJoFM ($\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \eta = 0.1$ and $Th_1 = SSW_{med}$)
Flume	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8803)	$\alpha = 0.4, \beta = 0.1, \gamma = 0, \delta = 0.5$ (0.5382)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5544)	0.8803
Astyanax	$\alpha = 0.5, \beta = 0.2, \gamma = 0.2, \delta = 0.1$ (0.8803)	$\alpha = 0.3, \beta = 0.1, \gamma = 0, \delta = 0.6$ (0.5007)	$\alpha = 0.2, \beta = 0.1, \gamma = 0.1, \delta = 0.6$ (0.5564)	0.8803
Syncany	$\alpha = 0.6, \beta = 0.1, \gamma = 0.2, \delta = 0.1$ (0.9296)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5031)	$\alpha = 0.2, \beta = 0.2, \gamma = 0.1, \delta = 0.5$ (0.5031)	0.9294