| # | Class Under Test | Number of lines of initial regression test suites | Number of lines of final regression test suites | Lines of code reduction percentage (%) |
| --- | --- | --- | --- | --- |
| 1 | Const | 368851 | 34863 | 90.55 |
| 2 | JavaWrapper | 5650 | 432 | 92.36 |
| 3 | BooleanConverter | 14557 | 10554 | 27.50 |
| 4 | DefaultParser | 17278 | 1614 | 90.66 |
| 5 | StringEncoderComparator | 36516 | 3619 | 90.09 |
| 6 | Gamma | 312256 | 40577 | 87.01 |
| 7 | ConvertUtils | 13798 | 12174 | 11.77 |
| 8 | PosixParser | 17296 | 1611 | 90.69 |
| 9 | BaseNCodecInputStream | 101917 | 74166 | 27.23 |
| 10 | HmacUtils | 34479 | 24812 | 28.04 |
| 11 | ArrayListIterator | 377159 | 41021 | 89.13 |
| 12 | IEEE754rUtils | 323751 | 52045 | 83.93 |
| 13 | GnuParser | 17296 | 1611 | 90.69 |
| 14 | URLCodec | 15630 | 11416 | 26.97 |
| 15 | CryptoOutputStream | 17121 | 9519 | 44.41 |
| 16 | IndexedCollection | 681424 | 382606 | 43.86 |
| 17 | SkippingIterator | 1931 | 215 | 88.87 |
| 18 | CryptoInputStream | 23396 | 17511 | 25.16 |
| 19 | StreamInput | 541632 | 33450 | 93.83 |
| 20 | CSVParser | 9952 | 759 | 92.38 |
| 21 | FactoryCreateRule | 432785 | 285598 | 34.01 |
| 22 | SimpleRegexMatcher | 38912 | 29823 | 23.36 |
| 23 | ColorConversions | 349857 | 126987 | 63.71 |
| 24 | ColorXyz | 351508 | 258527 | 26.46 |
| 25 | PixelDensity | 575822 | 384871 | 33.17 |
| 26 | QuantizedPalette | 13962 | 2124 | 84.79 |
| 27 | JaccardSimilarity | 15306 | 1833 | 88.03 |
| 28 | DateFormatUtils | 5026 | 892 | 82.26 |
| 29 | RgbBufferedImageFactory | 121323 | 56880 | 53.12 |
| 30 | ConstructorFunction | 583793 | 48391 | 91.72 |
| 31 | QName | 243689 | 176391 | 27.62 |
| 32 | CharSequenceUtils | 1344 | 161 | 88.03 |
| 33 | Beta | 54455 | 7135 | 86.90 |
| 34 | UrlValidator | 18787 | 13812 | 26.49 |
| 35 | FieldUtils | 384473 | 50510 | 86.87 |
| 36 | EuclideanDistance | 155914 | 84106 | 46.06 |
| 37 | Md5Crypt | 595569 | 397326 | 33.29 |
| 38 | GradientFunction | 550546 | 30515 | 94.46 |
| 39 | NeuronSquareMesh2D | 86799 | 5420 | 93.76 |
| 40 | ArithmeticUtils | 22500 | 8639 | 61.61 |
| 41 | BrentSolver | 425526 | 29224 | 93.14 |
| 42 | UniquePredicate | 39106 | 30691 | 21.52 |
| 43 | PlaneAngleRadians | 300550 | 27690 | 90.79 |
| 44 | CaseUtils | 1183107 | 77919 | 93.42 |
| 45 | CosineDistance | 21726 | 7222 | 66.76 |
| 46 | CsvTranslators | 20405 | 9906 | 51.46 |
| 47 | DurationFormatUtils | 342494 | 31927 | 90.68 |
| 48 | EmailValidator | 683835 | 26869 | 96.08 |
| 49 | Primes | 947 | 156 | 83.53 |
| 50 | VerhoeffCheckDigit | 1229884 | 64998 | 94.72 |

| # | Class Under Test | Number of regression test suites | Number of test cases | Number of test clones | Conversion percentage of initial test cases to parameterized tests (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | Const | 50 | 25000 | 24539 | 98.15 |
| 2 | JavaWrapper | 1 | 257 | 256 | 99.61 |
| 3 | BooleanConverter | 1 | 232 | 52 | 22.41 |
| 4 | DefaultParser | 2 | 768 | 763 | 99.34 |
| 5 | StringEncoderComparator | 5 | 2098 | 2062 | 98.28 |
| 6 | Gamma | 50 | 25000 | 24910 | 99.64 |
| 7 | ConvertUtils | 1 | 389 | 183 | 47.04 |
| 8 | PosixParser | 2 | 769 | 763 | 99.21 |
| 9 | BaseNCodecInputStream | 4 | 1586 | 248 | 15.63 |
| 10 | HmacUtils | 2 | 558 | 195 | 34.94 |
| 11 | ArrayListIterator | 50 | 25000 | 24798 | 99.19 |
| 12 | IEEE754rUtils | 50 | 25000 | 24568 | 98.27 |
| 13 | GnuParser | 2 | 769 | 763 | 99.21 |
| 14 | URLCodec | 1 | 204 | 40 | 19.60 |
| 15 | CryptoOutputStream | 1 | 184 | 106 | 57.60 |
| 16 | IndexedCollection | 50 | 25000 | 14865 | 59.46 |
| 17 | SkippingIterator | 1 | 120 | 120 | 100 |
| 18 | CryptoInputStream | 1 | 382 | 60 | 15.70 |
| 19 | StreamInput | 50 | 25000 | 24998 | 99.99 |
| 20 | CSVParser | 2 | 584 | 578 | 98.97 |
| 21 | FactoryCreateRule | 50 | 25000 | 12740 | 50.96 |
| 22 | SimpleRegexMatcher | 1 | 361 | 61 | 16.89 |
| 23 | ColorConversions | 47 | 23305 | 19450 | 83.45 |
| 24 | ColorXyz | 17 | 8360 | 3038 | 36.33 |
| 25 | PixelDensity | 50 | 25000 | 10681 | 42.72 |
| 26 | QuantizedPalette | 1 | 436 | 425 | 97.47 |
| 27 | JaccardSimilarity | 1 | 337 | 324 | 96.14 |
| 28 | DateFormatUtils | 1 | 318 | 288 | 90.56 |
| 29 | RgbBufferedImageFactory | 7 | 3051 | 1934 | 63.38 |
| 30 | ConstructorFunction | 50 | 25000 | 24698 | 98.79 |
| 31 | QName | 12 | 5699 | 2526 | 44.32 |
| 32 | CharSequenceUtils | 1 | 96 | 95 | 98.95 |
| 33 | Beta | 10 | 4519 | 4455 | 98.58 |
| 34 | UrlValidator | 2 | 857 | 340 | 39.67 |
| 35 | FieldUtils | 50 | 25000 | 24483 | 97.93 |
| 36 | EuclideanDistance | 4 | 1687 | 778 | 46.11 |
| 37 | Md5Crypt | 33 | 16129 | 7405 | 45.91 |
| 38 | GradientFunction | 50 | 25000 | 24993 | 99.97 |
| 39 | NeuronSquareMesh2D | 9 | 4338 | 4332 | 99.86 |
| 40 | ArithmeticUtils | 3 | 1078 | 996 | 92.39 |
| 41 | BrentSolver | 50 | 25000 | 24997 | 99.98 |
| 42 | UniquePredicate | 3 | 1472 | 428 | 29.07 |
| 43 | PlaneAngleRadians | 50 | 25000 | 24996 | 99.98 |
| 44 | CaseUtils | 40 | 19669 | 19264 | 97.94 |
| 45 | CosineDistance | 1 | 265 | 231 | 87.16 |
| 46 | CsvTranslators | 1 | 223 | 143 | 64.12 |
| 47 | DurationFormatUtils | 50 | 25000 | 24989 | 99.95 |
| 48 | EmailValidator | 17 | 8130 | 8096 | 99.58 |
| 49 | Primes | 1 | 75 | 75 | 100 |
| 50 | VerhoeffCheckDigit | 33 | 16080 | 15905 | 98.91 |

| # | Class Under Test | Randoop test run time (minutes) | Time of parameterized test suites generation (minutes) |
| --- | --- | --- | --- |
| 1 | Const | 2 | 11.21 |
| 2 | JavaWrapper | 2 | 00.23 |
| 3 | BooleanConverter | 2 | 00.25 |
| 4 | DefaultParser | 2 | 00.56 |
| 5 | StringEncoderComparator | 2 | 01.04 |
| 6 | Gamma | 2 | 12.58 |
| 7 | ConvertUtils | 2 | 00.35 |
| 8 | PosixParser | 2 | 00.51 |
| 9 | BaseNCodecInputStream | 2 | 01.04 |
| 10 | HmacUtils | 2 | 00.75 |
| 11 | ArrayListIterator | 2 | 13.59 |
| 12 | IEEE754rUtils | 2 | 11.28 |
| 13 | GnuParser | 2 | 00.63 |
| 14 | URLCodec | 2 | 00.16 |
| 15 | CryptoOutputStream | 2 | 00.54 |
| 16 | IndexedCollection | 2 | 44.29 |
| 17 | SkippingIterator | 2 | 00.04 |
| 18 | CryptoInputStream | 2 | 00.22 |
| 19 | StreamInput | 2 | 15.41 |
| 20 | CSVParser | 2 | 00.21 |
| 21 | FactoryCreateRule | 2 | 19.23 |
| 22 | SimpleRegexMatcher | 2 | 00.47 |
| 23 | ColorConversions | 2 | 15.57 |
| 24 | ColorXyz | 2 | 06.33 |
| 25 | PixelDensity | 2 | 14.17 |
| 26 | QuantizedPalette | 2 | 00.65 |
| 27 | JaccardSimilarity | 2 | 00.69 |
| 28 | DateFormatUtils | 2 | 00.18 |
| 29 | RgbBufferedImageFactory | 2 | 08.30 |
| 30 | ConstructorFunction | 2 | 19.37 |
| 31 | QName | 2 | 05.22 |
| 32 | CharSequenceUtils | 2 | 00.03 |
| 33 | Beta | 2 | 02.07 |
| 34 | UrlValidator | 2 | 00.93 |
| 35 | FieldUtils | 2 | 14.23 |
| 36 | EuclideanDistance | 2 | 09.47 |
| 37 | Md5Crypt | 2 | 17.03 |
| 38 | GradientFunction | 2 | 15.04 |
| 39 | NeuronSquareMesh2D | 2 | 02.38 |
| 40 | ArithmeticUtils | 2 | 00.82 |
| 41 | BrentSolver | 2 | 14.19 |
| 42 | UniquePredicate | 2 | 01.27 |
| 43 | PlaneAngleRadians | 2 | 09.31 |
| 44 | CaseUtils | 2 | 54.50 |
| 45 | CosineDistance | 2 | 02.13 |
| 46 | CsvTranslators | 2 | 01.09 |
| 47 | DurationFormatUtils | 2 | 12.17 |
| 48 | EmailValidator | 2 | 13.20 |
| 49 | Primes | 2 | 00.01 |
| 50 | VerhoeffCheckDigit | 2 | 29.02 |