# Core Benchmark Results

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 000 | VERSIONS: | 1:8.4a3 | 1:8.3.3 | 1:8.2.3 | 1:8.1.1 | 1:8.0.5 | 1:7.6p2 | 1:7.5p1 |
| 001 | CATCH return ok | 11 | 6 | 7 | 4 | 5 | 28 | 17 |
| 002 | CATCH return error | 70 | 64 | 275 | 54 | 204 | 146 | 33 |
| 003 | CATCH no catch used | 10 | 6 | 7 | 13 | 4 | 24 | 9 |
| 004 | IF if true numeric | 17 | 11 | 13 | 7 | 9 | 152 | 61 |
| 005 | IF elseif true numeric | 20 | 15 | 16 | 20 | 11 | 299 | 292 |
| 006 | IF else true numeric | 20 | 15 | 16 | 15 | 11 | 318 | 82 |
| 007 | IF if true num/num | 17 | 12 | 281 | 22 | 9 | 329 | 174 |
| 008 | IF if false num/num | 17 | 12 | 13 | 13 | 9 | 202 | 182 |
| 009 | IF if false al/num | 27 | 20 | 20 | 29 | 17 | 467 | 121 |
| 010 | IF if true al/al | 31 | 26 | 26 | 51 | 169 | 292 | 184 |
| 011 | IF if false al/al | 31 | 25 | 25 | 51 | 60 | 217 | 243 |
| 012 | IF if true al | 32 | 25 | 25 | 42 | 51 | 214 | 76 |
| 013 | IF elseif true al | 47 | 39 | 338 | 89 | 156 | 358 | 154 |
| 014 | IF else true al | 46 | 40 | 42 | 71 | 51 | 292 | 323 |
| 015 | SWITCH first true | 63 | 42 | 103 | 58 | 73 | 391 | 241 |
| 016 | SWITCH second true | 58 | 39 | 153 | 65 | 62 | 340 | 282 |
| 017 | SWITCH ninth true | 67 | 44 | 238 | 73 | 112 | 391 | 284 |
| 018 | SWITCH default true | 62 | 38 | 46 | 73 | 77 | 492 | 292 |
| 019 | DATA create in a list | 4883 | 4083 | 15014 | 12925 | 7886 | 40180 | 29501 |
| 020 | DATA create in an array | 5388 | 4916 | 19172 | 12827 | 16792 | 53723 | 40784 |
| 021 | DATA access in a list | 4028 | 3546 | 15346 | 10386 | 7024 | 182889 | 175028 |
| 022 | DATA access in an array | 3507 | 3223 | 14156 | 6966 | 7640 | 43232 | 39744 |
| 023 | EVAL cmd eval in list obj var | 26 | 22 | 52 | 40 | 84 | 27 | 26 |
| 024 | EVAL cmd eval as list | 24 | 21 | 49 | 88 | 144 | 22 | 52 |
| 025 | EVAL cmd eval as string | 60 | 50 | 54 | 79 | 90 | 26 | 64 |
| 026 | EVAL cmd and mixed lists | 3347 | 3546 | 32485 | 21937 | 13914 | 3017 | 2112 |
| 027 | EVAL list cmd and mixed lists | 3403 | 3591 | 40366 | 19014 | 14703 | 2936 | 2259 |
| 028 | EVAL list cmd and pure lists | 543 | 582 | 40115 | 21974 | 12611 | 2653 | 2245 |
| 029 | EXPR unbraced | 153 | 167 | 502 | 23 | 331 | 313 | 365 |
| 030 | EXPR braced | 29 | 25 | 29 | 53 | 92 | 505 | 386 |
| 031 | EXPR inline | 31 | 30 | 40 | 68 | 59 | 321 | 177 |
| 032 | EXPR one operand | 11 | 6 | 158 | 9 | 11 | 47 | 65 |
| 033 | EXPR ten operands | 18 | 13 | 97 | 13 | 20 | 159 | 141 |
| 034 | EXPR fifty operands | 48 | 43 | 45 | 71 | 85 | 708 | 430 |
| 035 | EXPR incr with incr | 16 | 11 | 10 | 16 | 22 | 31 | 45 |
| 036 | EXPR incr with expr | 11 | 7 | 9 | 11 | 13 | 73 | 74 |
| 037 | FCOPY std: 160010 bytes | 10069 | 10242 | 46300 | 25104 | 26557 |  |  |
| 038 | FCOPY binary: 160010 bytes | 9932 | 9892 | 41776 | 25211 |  |  |  |
| 039 | FCOPY encoding: 160010 bytes | 9818 | 9831 | 44598 | 25972 |  |  |  |
| 040 | KLIST shuffle0 llength 1 | 144 | 127 | 554 | 271 | 367 |  |  |
| 041 | KLIST shuffle0 llength 10 | 457 | 413 | 1592 | 901 | 728 |  |  |
| 042 | KLIST shuffle0 llength 100 | 3986 | 3552 | 13565 | 8229 | 6484 |  |  |
| 043 | KLIST shuffle0 llength 1000 | 44083 | 41766 | 164223 | 92480 | 81157 |  |  |
| 044 | KLIST shuffle0 llength 10000 | 563245 | 533804 | 2073612 | 1214997 | 1161217 |  |  |
| 045 | KLIST shuffle1 llength 1 | 84 | 85 | 367 | 163 | 149 |  |  |
| 046 | KLIST shuffle1 llength 10 | 358 | 333 | 1371 | 718 | 634 |  |  |
| 047 | KLIST shuffle1 llength 100 | 6374 | 5238 | 12737 | 9243 | 8576 |  |  |
| 048 | KLIST shuffle1 llength 1000 | 1190696 | 1194146 | 1770024 | 1762135 | 1736049 |  |  |
| 049 | KLIST shuffle1a llength 1 | 110 | 100 | 94 | 172 | 150 |  |  |
| 050 | KLIST shuffle1a llength 10 | 474 | 368 | 404 | 768 | 910 |  |  |
| 051 | KLIST shuffle1a llength 100 | 4667 | 3625 | 3833 | 8986 | 9480 |  |  |
| 052 | KLIST shuffle1a llength 1000 | 47818 | 37340 | 39248 | 84798 | 95305 |  |  |
| 053 | KLIST shuffle1a llength 10000 | 474513 | 380522 | 408005 | 861405 | 1004602 |  |  |
| 054 | KLIST shuffle2 llength 1 | 104 | 99 | 108 | 196 | 229 |  |  |
| 055 | KLIST shuffle2 llength 10 | 440 | 375 | 481 | 938 | 1080 |  |  |
| 056 | KLIST shuffle2 llength 100 | 3762 | 3625 | 4250 | 8904 | 9803 |  |  |
| 057 | KLIST shuffle2 llength 1000 | 39573 | 37028 | 45651 | 95513 | 116933 |  |  |
| 058 | KLIST shuffle2 llength 10000 | 474558 | 433771 | 527055 | 1176566 | 1304458 |  |  |
| 059 | KLIST shuffle3 llength 1 | 104 | 98 | 102 | 217 | 170 |  |  |
| 060 | KLIST shuffle3 llength 10 | 380 | 335 | 376 | 786 | 832 |  |  |
| 061 | KLIST shuffle3 llength 100 | 3408 | 2883 | 3413 | 7161 | 7632 |  |  |
| 062 | KLIST shuffle3 llength 1000 | 38716 | 33237 | 37667 | 87353 | 82985 |  |  |
| 063 | KLIST shuffle3 llength 10000 | 945771 | 777699 | 844383 | 1789387 | 1732151 |  |  |
| 064 | KLIST shuffle4 llength 1 | 114 | 102 | 100 | 202 | 178 |  |  |
| 065 | KLIST shuffle4 llength 10 | 431 | 374 | 416 | 837 | 876 |  |  |
| 066 | KLIST shuffle4 llength 100 | 3871 | 3250 | 3758 | 8572 | 8278 |  |  |
| 067 | KLIST shuffle4 llength 1000 | 40201 | 32119 | 38186 | 82985 | 80450 |  |  |
| 068 | KLIST shuffle4 llength 10000 | 393369 | 330472 | 398724 | 874454 | 834612 |  |  |
| 069 | STR/LIST length, obj shimmer | 2390 | 2767 | 2333 | 905 | 28 | 2585 | 2638 |
| 070 | LIST length, pure list | 18 | 13 | 13 | 21 | 18 | 2023 | 1837 |
| 071 | STR length of a LIST | 15 | 12 | 12 | 529 | 23 | 525 | 400 |
| 072 | LIST exact search, first item | 19 | 11 | 14 | 17 | 32 | 2303 | 1693 |
| 073 | LIST exact search, middle item | 69 | 25 | 27 | 46 | 38 | 1787 | 1944 |
| 074 | LIST exact search, last item | 132 | 48 | 50 | 90 | 111 | 2261 | 2009 |
| 075 | LIST exact search, non-item | 314 | 110 | 121 | 212 | 220 | 2099 | 2118 |
| 076 | LIST sorted search, first item | 23 | 12 | 12 | 16 | 29 | 1862 | 1610 |
| 077 | LIST sorted search, middle item | 24 | 26 | 26 | 42 | 40 | 1623 | 2252 |
| 078 | LIST sorted search, last item | 24 | 52 | 49 | 84 | 121 | 2145 | 1784 |
| 079 | LIST sorted search, non-item | 23 | 111 | 122 | 201 | 257 | 1999 | 2057 |
| 080 | LIST exact search, untyped item | 131 | 47 | 51 | 80 | 101 | 2166 | 2218 |
| 081 | LIST exact search, typed item | 128 | 48 | 49 | 77 | 111 | 2072 | 1872 |
| 082 | LIST sorted search, typed item | 19 | 46 | 50 | 93 | 104 | 1887 | 2221 |
| 083 | LIST sort | 3299 | 3578 | 3293 | 6723 | 7021 | 10959 | 9644 |
| 084 | LIST typed sort | 2739 | 2943 | 2660 | 4737 | 4651 | 28889 | 23969 |
| 085 | LIST remove first element | 317 | 296 | 363 | 806 | 866 | 625 | 522 |
| 086 | LIST remove middle element | 325 | 291 | 358 | 692 | 876 | 656 | 677 |
| 087 | LIST remove last element | 318 | 293 | 360 | 689 | 879 | 754 | 675 |
| 088 | LIST replace first element | 310 | 289 | 346 | 722 | 917 | 727 | 978 |
| 089 | LIST replace middle element | 316 | 286 | 353 | 693 | 1045 | 1024 | 876 |
| 090 | LIST replace last element | 316 | 283 | 346 | 963 | 832 | 1450 | 1243 |
| 091 | LIST replace first el with multiple | 333 | 304 | 372 | 819 | 938 | 702 | 612 |
| 092 | LIST replace middle el with multiple | 319 | 310 | 351 | 691 | 736 | 1088 | 1123 |
| 093 | LIST replace last el with multiple | 319 | 282 | 347 | 813 | 740 | 1413 | 1313 |
| 094 | LIST replace range | 294 | 282 | 343 | 744 | 866 | 1198 | 971 |
| 095 | LIST remove in mixed list | 389 | 374 | 2195 | 833 | 999 | 829 | 617 |
| 096 | LIST replace in mixed list | 377 | 352 | 2184 | 1054 | 925 | 756 | 592 |
| 097 | LIST index first element | 18 | 10 | 13 | 16 | 25 | 451 | 375 |
| 098 | LIST index middle element | 17 | 10 | 13 | 16 | 23 | 516 | 536 |
| 099 | LIST index last element | 17 | 11 | 13 | 13 | 17 | 622 | 663 |
| 100 | LIST insert an item at start | 291 | 298 | 366 | 775 | 805 | 729 | 563 |
| 101 | LIST insert an item at middle | 269 | 266 | 370 | 684 | 667 | 978 | 630 |
| 102 | LIST insert an item at "end" | 257 | 254 | 349 | 670 | 1013 | 1779 | 1200 |
| 103 | LIST small, early range | 23 | 19 | 16 | 42 | 35 | 500 | 383 |
| 104 | LIST small, late range | 23 | 18 | 16 | 28 | 38 | 618 | 685 |
| 105 | LIST large, early range | 37 | 29 | 24 | 54 | 108 | 511 | 697 |
| 106 | LIST large, late range | 40 | 30 | 21 | 81 | 131 | 567 | 551 |
| 107 | LIST append to list | 409 | 401 | 396 | 917 | 1032 | 737 | 682 |
| 108 | LIST join list | 1053 | 1072 | 1066 | 1818 | 1453 | 3672 | 3167 |
| 109 | LOOP for, iterate list | 6616 | 5198 | 5372 | 13766 | 9653 | 662376 | 583297 |
| 110 | LOOP foreach, iterate list | 1919 | 1845 | 1952 | 3750 | 3553 | 11561 | 12556 |
| 111 | LOOP for (to 1000) | 2566 | 2674 | 3065 | 4639 | 4867 | 66896 | 73851 |
| 112 | LOOP while (to 1000) | 2568 | 2942 | 3065 | 4551 | 4637 | 69891 | 80404 |
| 113 | LOOP for, iterate string | 6456 | 9440 | 9637 | 141594 | 14530 | 219770 | 199570 |
| 114 | LOOP foreach, iterate string | 2240 | 2249 | 3955 | 9099 | 8147 | 15468 | 13206 |
| 115 | MAP string 1 val | 679 | 5931 | 6028 | 9096 | (8.2+) | (8.2+) | (8.2+) |
| 116 | MAP string 2 val | 1562 | 6643 | 6877 | 12943 | (8.2+) | (8.2+) | (8.2+) |
| 117 | MAP string 3 val | 1836 | 7673 | 7832 | 12825 | (8.2+) | (8.2+) | (8.2+) |
| 118 | MAP string 4 val | 2510 | 8429 | 8622 | 17267 | (8.2+) | (8.2+) | (8.2+) |
| 119 | MAP string 1 val -nocase | 3497 | 10259 | 10381 | 17685 | (8.2+) | (8.2+) | (8.2+) |
| 120 | MAP string 2 val -nocase | 6218 | 14570 | 15024 | 27379 | (8.2+) | (8.2+) | (8.2+) |
| 121 | MAP string 3 val -nocase | 8364 | 19344 | 18973 | 35569 | (8.2+) | (8.2+) | (8.2+) |
| 122 | MAP string 4 val -nocase | 10135 | 21861 | 22132 | 39660 | (8.2+) | (8.2+) | (8.2+) |
| 123 | MAP regsub 1 val | 3702 | 3954 | 4303 | 9663 | 1830 | 4430 | 3684 |
| 124 | MAP regsub 2 val | 16066 | 16981 | 18176 | 41500 | 4184 | 9394 | 11576 |
| 125 | MAP regsub 3 val | 21671 | 23258 | 24817 | 52315 | 6075 | 11441 | 12456 |
| 126 | MAP regsub 4 val | 26657 | 29335 | 31350 | 67973 | 8659 | 15319 | 13884 |
| 127 | MAP regsub 1 val -nocase | 3686 | 3913 | 4332 | 9463 | 2766 | 4729 | 4488 |
| 128 | MAP regsub 2 val -nocase | 15821 | 17024 | 18134 | 40735 | 5881 | 9546 | 11911 |
| 129 | MAP regsub 3 val -nocase | 20987 | 23228 | 24747 | 52639 | 8625 | 12501 | 14437 |
| 130 | MAP regsub 4 val -nocase | 26227 | 29397 | 31314 | 66937 | 11664 | 14510 | 16818 |
| 131 | MAP string, no match | 926 | 7712 | 8028 | 14020 | (8.2+) | (8.2+) | (8.2+) |
| 132 | MAP string -nocase, no match | 6726 | 18725 | 18933 | 35683 | (8.2+) | (8.2+) | (8.2+) |
| 133 | MAP regsub, no match | 1149 | 2764 | 2830 | 6704 | 1843 | 3352 | 4823 |
| 134 | MAP regsub -nocase, no match | 1151 | 2785 | 2890 | 6609 | 3563 | 4499 | 5249 |
| 135 | MAP string short | 37 | 41 | 39 | 116 | (8.2+) | (8.2+) | (8.2+) |
| 136 | MAP regsub short | 164 | 180 | 193 | 308 | 154 | 244 | 432 |
| 137 | MTHD direct ns proc call | 10 | 6 | 8 | 3 | 7 |  |  |
| 138 | MTHD imported ns proc call | 11 | 6 | 7 | 5 | 7 |  |  |
| 139 | MTHD interp alias proc call | 25 | 18 | 18 | 18 | 9 |  |  |
| 140 | MTHD indirect proc eval | 36 | 29 | 61 | 56 | 72 |  |  |
| 141 | MTHD indirect proc eval #2 | 58 | 48 | 57 | 81 | 107 |  |  |
| 142 | MTHD array stored proc call | 14 | 9 | 10 | 22 | 19 |  |  |
| 143 | MTHD switch method call | 50 | 38 | 83 | 119 | 172 |  |  |
| 144 | MTHD ns lookup call | 99 | 81 | 216 | 374 | 376 |  |  |
| 145 | MTHD inline call | 5 | 3 | 3 | 2 | 2 |  |  |
| 146 | PROC explicit return | 15 | 7 | 8 | 7 | 7 | 11 | 11 |
| 147 | PROC implicit return | 11 | 6 | 7 | 4 | 11 | 16 | 15 |
| 148 | PROC explicit return (2) | 12 | 7 | 8 | 13 | 13 | 14 | 10 |
| 149 | PROC implicit return (2) | 10 | 6 | 7 | 10 | 18 | 21 | 24 |
| 150 | PROC explicit return (3) | 10 | 7 | 7 | 4 | 14 | 14 | 25 |
| 151 | PROC implicit return (3) | 10 | 6 | 7 | 3 | 12 | 10 | 18 |
| 152 | PROC heavily commented | 10 | 5 | 6 | 12 | 5 | 629 | 753 |
| 153 | PROC do-nothing, no args | 8 | 5 | 28 | 38 | 4 | 5 | 2 |
| 154 | PROC do-nothing, one arg | 10 | 5 | 6 | 9 | 8 | 15 | 21 |
| 155 | PROC local links with global | 1579 | 1569 | 1626 | 3586 | 4533 | 7955 | 11505 |
| 156 | PROC local links with upvar | 1287 | 1166 | 1387 | 2806 | 2922 | 8371 | 10317 |
| 157 | PROC local links with variable | 1195 | 1101 | 1334 | 2614 | 1050 | 9091 | 9212 |
| 158 | READ 595K, gets | 340064 | 299797 | 306109 | 819327 | 372526 | 978472 | 985676 |
| 159 | READ 595K, read | 77751 | 97698 | 97019 | 227338 | 2936958 | 3774669 | 3834017 |
| 160 | READ 595K, read & size | 77606 | 97909 | 97074 | 242255 | 124776 | 3696432 | 3704813 |
| 161 | READ 3050b, gets | 1869 | 1641 | 2052 | 4118 | 954 | 2074 | 2201 |
| 162 | READ 3050b, read | 522 | 494 | 494 | 789 | 748 | 503 | 415 |
| 163 | READ 3050b, read & size | 569 | 534 | 530 | 790 | 410 | 467 | 361 |
| 164 | BREAD 595K, gets | 350077 | 292326 | 304961 | 833500 | 365165 | 953379 | 979961 |
| 165 | BREAD 595K, read | 50105 | 50454 | 50018 | 228963 | 2952787 | 3640795 | 3741298 |
| 166 | BREAD 595K, read & size | 50303 | 50486 | 50140 | 246365 | 87019 | 3685978 | 3688120 |
| 167 | BREAD 3050b, gets | 2097 | 1777 | 1774 | 5220 | 1062 | 2208 | 2178 |
| 168 | BREAD 3050b, read | 340 | 347 | 334 | 1310 | 412 | 458 | 359 |
| 169 | BREAD 3050b, read & size | 396 | 389 | 369 | 1144 | 1230 | 390 | 495 |
| 170 | REGEXP literal regexp | 39 | 37 | 38 | 42 | 31 | 26 | 26 |
| 171 | REGEXP var-based regexp | 41 | 40 | 40 | 55 | 45 | 30 | 61 |
| 172 | REGEXP count all matches | 137 | 139 | 530 | 1280 | 1332 | 2277 | 2776 |
| 173 | REGEXP extract all matches | 169 | 177 | 616 | 1790 | 1129 | 3068 | 3620 |
| 174 | STARTUP time to launch tclsh | 21138 | 20425 | 18293 | 85723 | 102877 | 70500 | 90323 |
| 175 | STR str [string compare] | 18 | 26 | 24 | 17 | 26 | 199 | 193 |
| 176 | STR str [string equal] | 18 | 25 | 23 | 68 | 38 | 160 | 198 |
| 177 | STR str $a equal "" | 17 | 26 | 24 | 81 | 52 | 670 | 410 |
| 178 | STR str num == "" | 19 | 14 | 24 | 36 | 52 | 338 | 419 |
| 179 | STR str $a eq $b | 22 | 33 | 31 | 39 | 56 | 231 | 261 |
| 180 | STR str $a ne $b | 23 | 31 | 30 | 85 | 47 | 226 | 265 |
| 181 | STR str $a eq $b (same obj) | 22 | 33 | 36 | 161 | 53 | 271 | 338 |
| 182 | STR str $a ne $b (same obj) | 21 | 33 | 30 | 28 | 57 | 203 | 235 |
| 183 | STR length (==4010) | 15 | 14 | 13 | 678 | 17 | 508 | 867 |
| 184 | STR index 0 | 26 | 19 | 19 | 487 | 30 | 522 | 614 |
| 185 | STR index 100 | 21 | 24 | 19 | 500 | 43 | 491 | 601 |
| 186 | STR index 500 | 21 | 18 | 19 | 483 | 42 | 489 | 493 |
| 187 | STR index2 0 | 21 | 19 | 19 | 494 | 27 | 485 | 583 |
| 188 | STR index2 100 | 20 | 19 | 19 | 470 | 26 | 557 | 459 |
| 189 | STR index2 500 | 21 | 19 | 19 | 484 | 40 | 764 | 468 |
| 190 | STR first (success) | 19 | 16 | 15 | 21 | 33 | 533 | 519 |
| 191 | STR first (failure) | 120 | 56 | 50 | 123 | 117 | 697 | 822 |
| 192 | STR first (total failure) | 109 | 42 | 28 | 54 | 57 | 545 | 631 |
| 193 | STR last (success) | 19 | 229 | 224 | 469 | 18 | 815 | 728 |
| 194 | STR last (failure) | 90 | 99 | 91 | 185 | 201 | 657 | 859 |
| 195 | STR last (total failure) | 82 | 90 | 83 | 135 | 151 | 584 | 1153 |
| 196 | STR match, simple (success early) | 17 | 14 | 13 | 25 | 33 | 503 | 489 |
| 197 | STR match, simple (success late) | 16 | 14 | 13 | 11 | 27 | 619 | 502 |
| 198 | STR match, simple (failure) | 17 | 15 | 13 | 26 | 36 | 421 | 680 |
| 199 | STR match, simple (total failure) | 16 | 18 | 13 | 17 | 30 | 456 | 378 |
| 200 | STR match, complex (success early) | 17 | 23 | 22 | 33 | 35 | 466 | 448 |
| 201 | STR match, complex (success late) | 145 | 1020 | 1040 | 2173 | 926 | 1529 | 1676 |
| 202 | STR match, complex (failure) | 122 | 1011 | 1010 | 1785 | 964 | 1357 | 1698 |
| 203 | STR match, complex (total failure) | 90 | 994 | 994 | 1844 | 1216 | 1725 | 1602 |
| 204 | STR range, index 100..200 of 4010 | 26 | 21 | 21 | 716 | 25 | 589 | 609 |
| 205 | STR replace, no replacement | 79 | 270 | 264 | 570 | 166 | 1217 | 1315 |
| 206 | STR replace, equal replacement | 92 | 277 | 257 | 526 | 140 | 1560 | 1263 |
| 207 | STR replace, longer replacement | 95 | 270 | 265 | 551 | 103 | 1563 | 1309 |
| 208 | STR repeat, abcdefghij \* 10 | 19 | 22 | 22 | 21 | 199 | 997 | 963 |
| 209 | STR repeat, abcdefghij \* 100 | 39 | 72 | 74 | 120 | 1267 | 8488 | 9065 |
| 210 | STR repeat, abcdefghij \* 1000 | 245 | 565 | 557 | 798 | 12264 | 81587 | 86928 |
| 211 | STR repeat, 4010 chars \* 10 | 314 | 797 | 671 | 1971 | 1494 | 11891 | 7688 |
| 212 | STR repeat, 4010 chars \* 100 | 7347 | 18287 | 18194 | 47967 | 69328 | 105423 | 107290 |
| 213 | STR reverse iter1, 100 chars | 1285 | 1628 | 1425 | 4104 | 1871 | 8459 | 8704 |
| 214 | STR reverse iter1, 100 uchars | 1264 | 1768 | 1436 | 4448 | 1864 | 8250 | 9034 |
| 215 | STR reverse iter2, 100 chars | 808 | 1252 | 1168 | 3860 | 2099 | 8379 | 8292 |
| 216 | STR reverse iter2, 100 uchars | 807 | 1259 | 1096 | 4086 | 1602 | 9513 | 5431 |
| 217 | STR reverse recur1, 100 chars | 4092 | 4770 | 3998 | 8749 | 8470 | 20868 | 11271 |
| 218 | STR reverse recur1, 100 uchars | 4169 | 5467 | 4767 | 8794 | 9075 | 21634 | 13821 |
| 219 | STR split, 4010 chars | 2663 | 2138 | 8847 | 23626 | 18954 | 4372 | 3169 |
| 220 | STR split, 12100 uchars | 7207 | 6395 |  |  |  |  |  |
| 221 | STR split iter, 4010 chars | 9349 | 9372 | 16664 | 39846 | 35962 | 52886 | 48521 |
| 222 | STR split iter, 12100 uchars | 28171 | 28299 |  |  |  |  |  |
| 223 | STR append | 100 | 82 | 71 | 108 | 164 | 1055 | 1145 |
| 224 | STR append (1KB + 1KB) | 65 | 55 | 49 | 96 | 79 | 236 | 290 |
| 225 | STR append (10KB + 1KB) | 186 | 193 | 196 | 474 | 75 | 215 | 213 |
| 226 | STR append (1MB + 2b \* 1000) | 37786 | 70498 | 74635 | 178639 | 12391 | 82339 | 84345 |
| 227 | STR append (1MB + 1KB) | 29729 | 63374 | 61479 | 136891 | 68 | 215 | 335 |
| 228 | STR append (1MB + 1KB \* 20) | 29635 | 64566 | 61865 | 127033 | 270 | 1551 | 1724 |
| 229 | STR append (1MB + 1KB \* 1000) | 66605 | 94413 | 101998 | 177875 | 10955 | 78370 | 81930 |
| 230 | STR append (1MB + 1MB \* 3) | 126103 | 153051 | 157370 | 282029 | 218 | 248 | 876 |
| 231 | STR append (1MB + 1MB \* 5) | 157407 | 303871 | 315407 | 1051814 | 45 | 543 | 342 |
| 232 | STR append (1MB + (1b + 1K + 1b) \* 100) | 33118 | 63834 | 69167 | 290360 | 2398 | 8930 | 9893 |
| 233 | STR info locals match | 828 | 818 | 993 | 2025 | 1518 | 8071 | 9043 |
| 234 | TRACE no trace set | 35 | 25 | 26 | 18 | 27 | 42 | 91 |
| 235 | TRACE read | 35 | 26 | 26 | 16 | 59 | 128 | 113 |
| 236 | TRACE write | 35 | 25 | 26 | 16 | 55 | 78 | 78 |
| 237 | TRACE unset | 35 | 26 | 26 | 16 | 70 | 94 | 112 |
| 238 | TRACE all set (rwu) | 35 | 25 | 25 | 18 | 59 | 77 | 105 |
| 239 | UNSET var exists | 14 | 8 | 9 | 8 | 16 | 27 | 37 |
| 240 | UNSET catch var exists | 16 | 9 | 10 | 52 | 20 | 61 | 58 |
| 241 | UNSET catch var !exist | 69 | 64 | 59 | 191 | 120 | 77 | 96 |
| 242 | UNSET info check var exists | 19 | 14 | 13 | 69 | 27 | 80 | 78 |
| 243 | UNSET info check var !exist | 16 | 11 | 11 | 6 | 17 | 73 | 64 |
| 244 | UNSET nocomplain var exists | 14 | 9 | 10 | 35 | 20 | 52 | 56 |
| 245 | UNSET nocomplain var !exist | 14 | 64 | 59 | 157 | 122 | 90 | 109 |
| 246 | VAR access locally set | 14 | 8 | 10 | 18 | 20 | 106 | 67 |
| 247 | VAR access local proc arg | 14 | 9 | 10 | 6 | 26 | 88 | 110 |
| 248 | VAR access global | 34 | 25 | 26 | 101 | 61 | 82 | 121 |
| 249 | VAR access upvar | 36 | 29 | 30 | 103 | 65 | 97 | 101 |
| 250 | VAR set scalar | 10 | 6 | 7 | 4 | 11 | 35 | 74 |
| 251 | VAR set array element | 18 | 12 | 14 | 9 | 33 | 59 | 35 |
| 252 | VAR 100 'set's in array | 162 | 133 | 160 | 296 | 292 | 917 | 827 |
| 253 | VAR 'array set' of 100 elems | 293 | 251 | 264 | 741 | 816 | 1063 | 993 |