# Libpll sequential benchmarks

### January 16, 2017

- node : node index (post order traversal)

- psize : number of unique (not repeating) sites on the current node

- lsize : number of unique (not repeating) sites on the left child node

- rsize : number of unique (not repeating) sites on the right child node

- repeats : runtime for 500 updatepartials on the node

- TCLV opt : runtime for 500 updatepartials on the node with left and right TCLV

# 1    dataset 404 hits avx

| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|------|---------|---------|---------|------------|---------|------|--------|
| node0 | 24 | 5 | 6 | 171ms | 47ms | 48ms | 47ms |
| node1 | 21 | 5 | 7 | 161ms | 49ms | 48ms | 47ms |
| node2 | 28 | 5 | 21 | 152ms | 49ms | 48ms | 48ms |
| node3 | 65 | 28 | 8 | 157ms | 51ms | 50ms | 49ms |
| node4 | 98 | 65 | 7 | 153ms | 52ms | 51ms | 51ms |
| node5 | 17 | 6 | 5 | 160ms | 47ms | 47ms | 47ms |
| node6 | 18 | 5 | 17 | 153ms | 48ms | 47ms | 47ms |
| node7 | 23 | 5 | 18 | 150ms | 47ms | 49ms | 47ms |
| node8 | 13 | 5 | 5 | 175ms | 47ms | 47ms | 46ms |
| node9 | 11 | 5 | 5 | 166ms | 46ms | 48ms | 47ms |
| node10 | 20 | 5 | 11 | 158ms | 47ms | 48ms | 49ms |
| node11 | 38 | 13 | 20 | 268ms | 49ms | 48ms | 48ms |
| node12 | 51 | 5 | 38 | 153ms | 49ms | 49ms | 48ms |
| node13 | 83 | 23 | 51 | 265ms | 52ms | 51ms | 51ms |
| node14 | 194 | 98 | 83 | 270ms | 58ms | 59ms | 56ms |
| node15 | 246 | 24 | 194 | 263ms | 60ms | 59ms | 59ms |
| node16 | 267 | 6 | 246 | 152ms | 60ms | 58ms | 58ms |
| node17 | 273 | 6 | 267 | 152ms | 60ms | 58ms | 60ms |
| node18 | 273 | 5 | 273 | 153ms | 60ms | 58ms | 60ms |
| node19 | 22 | 5 | 5 | 161ms | 48ms | 47ms | 47ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node20 | 23 | 5 | 5 | 162ms | 48ms | 47ms | 47ms |
| node21 | 25 | 5 | 5 | 167ms | 49ms | 47ms | 48ms |
| node22 | 120 | 23 | 25 | 266ms | 55ms | 55ms | 53ms |
| node23 | 272 | 22 | 120 | 256ms | 64ms | 62ms | 61ms |
| node24 | 341 | 5 | 272 | 150ms | 66ms | 62ms | 62ms |
| node25 | 22 | 5 | 5 | 161ms | 48ms | 49ms | 48ms |
| node26 | 63 | 5 | 22 | 151ms | 50ms | 52ms | 51ms |
| node27 | 76 | 5 | 63 | 211ms | 52ms | 51ms | 52ms |
| node28 | 17 | 6 | 5 | 201ms | 48ms | 47ms | 49ms |
| node29 | 37 | 5 | 17 | 155ms | 51ms | 48ms | 48ms |
| node30 | 24 | 5 | 6 | 165ms | 49ms | 48ms | 50ms |
| node31 | 35 | 24 | 5 | 151ms | 52ms | 48ms | 49ms |
| node32 | 131 | 37 | 35 | 255ms | 57ms | 55ms | 53ms |
| node33 | 23 | 6 | 5 | 161ms | 50ms | 47ms | 48ms |
| node34 | 43 | 6 | 23 | 157ms | 50ms | 49ms | 48ms |
| node35 | 55 | 5 | 43 | 154ms | 51ms | 50ms | 50ms |
| node36 | 16 | 5 | 5 | 163ms | 49ms | 47ms | 49ms |
| node37 | 29 | 16 | 5 | 154ms | 51ms | 48ms | 49ms |
| node38 | 111 | 55 | 29 | 257ms | 56ms | 54ms | 55ms |
| node39 | 120 | 5 | 111 | 154ms | 56ms | 52ms | 54ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node40 | 281 | 131 | 120 | 261ms | 68ms | 65ms | 65ms |
| node41 | 421 | 76 | 281 | 259ms | 77ms | 72ms | 71ms |
| node42 | 927 | 341 | 421 | 265ms | 107ms | 106ms | 98ms |
| node43 | 21 | 6 | 5 | 162ms | 53ms | 48ms | 47ms |
| node44 | 46 | 5 | 21 | 152ms | 49ms | 50ms | 50ms |
| node45 | 17 | 5 | 5 | 160ms | 50ms | 47ms | 47ms |
| node46 | 10 | 5 | 5 | 162ms | 47ms | 46ms | 49ms |
| node47 | 25 | 5 | 5 | 161ms | 47ms | 47ms | 47ms |
| node48 | 69 | 5 | 25 | 153ms | 50ms | 50ms | 48ms |
| node49 | 179 | 10 | 69 | 266ms | 56ms | 54ms | 53ms |
| node50 | 185 | 5 | 179 | 157ms | 56ms | 54ms | 58ms |
| node51 | 215 | 17 | 185 | 271ms | 59ms | 57ms | 58ms |
| node52 | 25 | 5 | 5 | 170ms | 47ms | 47ms | 49ms |
| node53 | 466 | 215 | 25 | 254ms | 70ms | 66ms | 64ms |
| node54 | 704 | 46 | 466 | 256ms | 89ms | 84ms | 93ms |
| node55 | 796 | 6 | 704 | 150ms | 91ms | 80ms | 85ms |
| node56 | 25 | 5 | 5 | 162ms | 49ms | 48ms | 47ms |
| node57 | 22 | 5 | 5 | 160ms | 49ms | 47ms | 48ms |
| node58 | 57 | 5 | 22 | 151ms | 51ms | 50ms | 48ms |
| node59 | 14 | 6 | 5 | 163ms | 48ms | 47ms | 47ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node60 | 23 | 5 | 5 | 165ms | 47ms | 47ms | 47ms |
| node61 | 69 | 14 | 23 | 257ms | 51ms | 51ms | 49ms |
| node62 | 9 | 5 | 5 | 165ms | 47ms | 47ms | 46ms |
| node63 | 35 | 5 | 9 | 151ms | 49ms | 48ms | 47ms |
| node64 | 87 | 5 | 35 | 155ms | 51ms | 50ms | 50ms |
| node65 | 212 | 69 | 87 | 265ms | 59ms | 59ms | 57ms |
| node66 | 228 | 5 | 212 | 151ms | 58ms | 56ms | 56ms |
| node67 | 29 | 9 | 5 | 160ms | 48ms | 48ms | 47ms |
| node68 | 19 | 5 | 5 | 162ms | 47ms | 47ms | 47ms |
| node69 | 106 | 29 | 19 | 259ms | 55ms | 52ms | 53ms |
| node70 | 15 | 5 | 5 | 164ms | 49ms | 48ms | 51ms |
| node71 | 146 | 106 | 15 | 262ms | 55ms | 54ms | 54ms |
| node72 | 434 | 228 | 146 | 259ms | 72ms | 72ms | 70ms |
| node73 | 449 | 5 | 434 | 150ms | 69ms | 64ms | 67ms |
| node74 | 522 | 57 | 449 | 264ms | 81ms | 75ms | 76ms |
| node75 | 555 | 5 | 522 | 151ms | 75ms | 68ms | 71ms |
| node76 | 638 | 5 | 555 | 150ms | 79ms | 71ms | 74ms |
| node77 | 24 | 5 | 5 | 161ms | 51ms | 48ms | 47ms |
| node78 | 23 | 5 | 5 | 161ms | 49ms | 48ms | 47ms |
| node79 | 60 | 5 | 23 | 150ms | 53ms | 49ms | 48ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node80 | 212 | 24 | 60 | 261ms | 63ms | 61ms | 57ms |
| node81 | 17 | 6 | 5 | 160ms | 50ms | 48ms | 47ms |
| node82 | 33 | 5 | 17 | 151ms | 48ms | 48ms | 50ms |
| node83 | 24 | 5 | 5 | 160ms | 48ms | 47ms | 48ms |
| node84 | 17 | 5 | 5 | 163ms | 47ms | 47ms | 47ms |
| node85 | 27 | 17 | 5 | 151ms | 48ms | 47ms | 48ms |
| node86 | 40 | 5 | 27 | 152ms | 48ms | 47ms | 48ms |
| node87 | 56 | 40 | 5 | 150ms | 49ms | 49ms | 48ms |
| node88 | 20 | 5 | 5 | 161ms | 47ms | 49ms | 47ms |
| node89 | 82 | 56 | 20 | 259ms | 51ms | 51ms | 50ms |
| node90 | 8 | 5 | 5 | 160ms | 48ms | 46ms | 46ms |
| node91 | 18 | 5 | 5 | 161ms | 48ms | 47ms | 46ms |
| node92 | 37 | 8 | 18 | 253ms | 48ms | 49ms | 48ms |
| node93 | 13 | 5 | 5 | 160ms | 50ms | 47ms | 47ms |
| node94 | 16 | 5 | 5 | 161ms | 47ms | 47ms | 47ms |
| node95 | 9 | 5 | 5 | 161ms | 47ms | 47ms | 48ms |
| node96 | 38 | 16 | 9 | 255ms | 52ms | 48ms | 48ms |
| node97 | 54 | 5 | 38 | 152ms | 52ms | 49ms | 49ms |
| node98 | 73 | 5 | 54 | 150ms | 53ms | 49ms | 49ms |
| node99 | 96 | 13 | 73 | 257ms | 55ms | 51ms | 52ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node100 | 145 | 37 | 96 | 257ms | 60ms | 54ms | 53ms |
| node101 | 220 | 82 | 145 | 257ms | 61ms | 61ms | 58ms |
| node102 | 331 | 24 | 220 | 255ms | 64ms | 61ms | 61ms |
| node103 | 19 | 5 | 5 | 160ms | 49ms | 48ms | 48ms |
| node104 | 17 | 5 | 5 | 160ms | 47ms | 47ms | 48ms |
| node105 | 22 | 5 | 5 | 162ms | 47ms | 48ms | 47ms |
| node106 | 14 | 5 | 5 | 161ms | 47ms | 47ms | 47ms |
| node107 | 33 | 5 | 14 | 151ms | 48ms | 48ms | 47ms |
| node108 | 46 | 5 | 33 | 151ms | 49ms | 49ms | 48ms |
| node109 | 12 | 5 | 5 | 160ms | 47ms | 47ms | 46ms |
| node110 | 15 | 5 | 5 | 162ms | 47ms | 47ms | 48ms |
| node111 | 46 | 15 | 5 | 153ms | 49ms | 48ms | 49ms |
| node112 | 62 | 12 | 46 | 255ms | 51ms | 49ms | 51ms |
| node113 | 108 | 46 | 62 | 258ms | 55ms | 53ms | 53ms |
| node114 | 146 | 5 | 108 | 150ms | 58ms | 53ms | 53ms |
| node115 | 149 | 5 | 146 | 150ms | 58ms | 53ms | 55ms |
| node116 | 189 | 5 | 149 | 152ms | 60ms | 55ms | 56ms |
| node117 | 20 | 5 | 5 | 161ms | 51ms | 47ms | 48ms |
| node118 | 256 | 189 | 20 | 256ms | 67ms | 58ms | 60ms |
| node119 | 336 | 22 | 256 | 260ms | 72ms | 63ms | 65ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node120 | 344 | 5 | 336 | 150ms | 69ms | 63ms | 64ms |
| node121 | 372 | 17 | 344 | 259ms | 73ms | 66ms | 70ms |
| node122 | 15 | 5 | 5 | 161ms | 51ms | 46ms | 47ms |
| node123 | 20 | 5 | 15 | 150ms | 51ms | 48ms | 47ms |
| node124 | 18 | 5 | 5 | 161ms | 50ms | 47ms | 48ms |
| node125 | 49 | 20 | 18 | 256ms | 53ms | 49ms | 51ms |
| node126 | 66 | 5 | 49 | 150ms | 54ms | 50ms | 50ms |
| node127 | 480 | 372 | 66 | 264ms | 77ms | 69ms | 74ms |
| node128 | 535 | 19 | 480 | 262ms | 86ms | 73ms | 76ms |
| node129 | 948 | 331 | 535 | 255ms | 108ms | 100ms | 95ms |
| node130 | 1004 | 33 | 948 | 257ms | 110ms | 93ms | 100ms |
| node131 | 1041 | 5 | 1004 | 152ms | 103ms | 85ms | 93ms |
| node132 | 1379 | 212 | 1041 | 256ms | 137ms | 126ms | 153ms |
| node133 | 24 | 5 | 5 | 160ms | 48ms | 48ms | 58ms |
| node134 | 50 | 5 | 24 | 150ms | 49ms | 50ms | 59ms |
| node135 | 70 | 5 | 50 | 150ms | 50ms | 51ms | 59ms |
| node136 | 16 | 5 | 5 | 162ms | 47ms | 47ms | 52ms |
| node137 | 13 | 5 | 5 | 160ms | 46ms | 47ms | 48ms |
| node138 | 39 | 16 | 13 | 261ms | 48ms | 50ms | 49ms |
| node139 | 56 | 39 | 5 | 150ms | 49ms | 49ms | 50ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node140 | 159 | 70 | 56 | 253ms | 56ms | 56ms | 55ms |
| node141 | 24 | 5 | 5 | 162ms | 47ms | 47ms | 48ms |
| node142 | 250 | 159 | 24 | 255ms | 60ms | 58ms | 59ms |
| node143 | 1768 | 1379 | 250 | 264ms | 148ms | 130ms | 140ms |
| node144 | 1774 | 5 | 1768 | 154ms | 139ms | 119ms | 139ms |
| node145 | 1863 | 5 | 1774 | 153ms | 145ms | 123ms | 139ms |
| node146 | 2448 | 638 | 1863 | 260ms | 221ms | 203ms | 221ms |
| node147 | 21 | 8 | 5 | 160ms | 47ms | 48ms | 47ms |
| node148 | 43 | 21 | 6 | 152ms | 49ms | 49ms | 48ms |
| node149 | 82 | 43 | 5 | 150ms | 50ms | 50ms | 49ms |
| node150 | 2574 | 2448 | 82 | 262ms | 187ms | 160ms | 189ms |
| node151 | 21 | 5 | 5 | 168ms | 48ms | 47ms | 50ms |
| node152 | 62 | 21 | 5 | 152ms | 53ms | 49ms | 51ms |
| node153 | 125 | 5 | 62 | 153ms | 54ms | 53ms | 54ms |
| node154 | 226 | 5 | 125 | 156ms | 60ms | 56ms | 58ms |
| node155 | 25 | 5 | 5 | 161ms | 48ms | 47ms | 48ms |
| node156 | 14 | 5 | 5 | 160ms | 47ms | 46ms | 47ms |
| node157 | 58 | 25 | 14 | 254ms | 50ms | 50ms | 50ms |
| node158 | 26 | 6 | 5 | 161ms | 48ms | 47ms | 47ms |
| node159 | 25 | 11 | 5 | 160ms | 48ms | 47ms | 47ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node160 | 25 | 5 | 5 | 161ms | 47ms | 47ms | 47ms |
| node161 | 24 | 5 | 5 | 162ms | 47ms | 48ms | 47ms |
| node162 | 24 | 5 | 5 | 160ms | 47ms | 48ms | 47ms |
| node163 | 40 | 5 | 24 | 151ms | 49ms | 48ms | 49ms |
| node164 | 101 | 40 | 5 | 153ms | 53ms | 52ms | 51ms |
| node165 | 189 | 6 | 101 | 155ms | 59ms | 57ms | 55ms |
| node166 | 23 | 5 | 5 | 162ms | 47ms | 48ms | 46ms |
| node167 | 64 | 23 | 5 | 151ms | 51ms | 50ms | 49ms |
| node168 | 364 | 189 | 64 | 270ms | 69ms | 66ms | 65ms |
| node169 | 399 | 364 | 5 | 157ms | 68ms | 64ms | 66ms |
| node170 | 431 | 5 | 399 | 155ms | 71ms | 65ms | 67ms |
| node171 | 524 | 24 | 431 | 265ms | 80ms | 74ms | 75ms |
| node172 | 560 | 5 | 524 | 151ms | 77ms | 70ms | 73ms |
| node173 | 675 | 25 | 560 | 259ms | 89ms | 80ms | 82ms |
| node174 | 729 | 25 | 675 | 257ms | 90ms | 83ms | 87ms |
| node175 | 740 | 5 | 729 | 151ms | 85ms | 76ms | 82ms |
| node176 | 25 | 5 | 5 | 160ms | 47ms | 47ms | 47ms |
| node177 | 68 | 25 | 5 | 150ms | 50ms | 50ms | 51ms |
| node178 | 24 | 5 | 5 | 162ms | 48ms | 48ms | 47ms |
| node179 | 54 | 24 | 5 | 152ms | 49ms | 49ms | 49ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node180 | 236 | 68 | 54 | 274ms | 62ms | 62ms | 59ms |
| node181 | 1009 | 740 | 236 | 262ms | 107ms | 101ms | 101ms |
| node182 | 1021 | 1009 | 5 | 150ms | 98ms | 86ms | 98ms |
| node183 | 25 | 5 | 5 | 164ms | 47ms | 48ms | 47ms |
| node184 | 82 | 25 | 5 | 152ms | 51ms | 50ms | 49ms |
| node185 | 1197 | 1021 | 82 | 267ms | 117ms | 102ms | 108ms |
| node186 | 1240 | 26 | 1197 | 266ms | 123ms | 109ms | 121ms |
| node187 | 1279 | 5 | 1240 | 150ms | 114ms | 98ms | 108ms |
| node188 | 1295 | 1279 | 5 | 150ms | 111ms | 95ms | 105ms |
| node189 | 1334 | 8 | 1295 | 151ms | 123ms | 104ms | 112ms |
| node190 | 1389 | 5 | 1334 | 152ms | 118ms | 103ms | 116ms |
| node191 | 27 | 5 | 8 | 160ms | 48ms | 48ms | 48ms |
| node192 | 22 | 5 | 5 | 160ms | 48ms | 47ms | 48ms |
| node193 | 27 | 5 | 9 | 161ms | 48ms | 48ms | 47ms |
| node194 | 58 | 6 | 27 | 150ms | 50ms | 51ms | 49ms |
| node195 | 104 | 6 | 58 | 150ms | 53ms | 51ms | 51ms |
| node196 | 23 | 5 | 6 | 162ms | 49ms | 48ms | 47ms |
| node197 | 39 | 5 | 23 | 156ms | 50ms | 48ms | 48ms |
| node198 | 59 | 7 | 39 | 160ms | 50ms | 50ms | 49ms |
| node199 | 88 | 59 | 5 | 150ms | 52ms | 51ms | 50ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node200 | 25 | 5 | 6 | 161ms | 48ms | 47ms | 48ms |
| node201 | 65 | 25 | 5 | 149ms | 52ms | 49ms | 50ms |
| node202 | 250 | 88 | 65 | 258ms | 61ms | 60ms | 58ms |
| node203 | 29 | 11 | 6 | 161ms | 48ms | 49ms | 50ms |
| node204 | 65 | 6 | 29 | 150ms | 50ms | 51ms | 49ms |
| node205 | 386 | 250 | 65 | 256ms | 67ms | 64ms | 65ms |
| node206 | 417 | 5 | 386 | 152ms | 66ms | 63ms | 64ms |
| node207 | 538 | 104 | 417 | 257ms | 78ms | 74ms | 76ms |
| node208 | 584 | 22 | 538 | 258ms | 78ms | 74ms | 77ms |
| node209 | 645 | 27 | 584 | 261ms | 81ms | 77ms | 86ms |
| node210 | 28 | 5 | 9 | 164ms | 47ms | 49ms | 48ms |
| node211 | 34 | 12 | 6 | 168ms | 48ms | 53ms | 48ms |
| node212 | 182 | 28 | 34 | 267ms | 58ms | 60ms | 55ms |
| node213 | 29 | 10 | 5 | 164ms | 48ms | 48ms | 48ms |
| node214 | 59 | 6 | 29 | 154ms | 52ms | 49ms | 49ms |
| node215 | 93 | 59 | 6 | 153ms | 52ms | 51ms | 51ms |
| node216 | 151 | 7 | 93 | 154ms | 55ms | 53ms | 52ms |
| node217 | 169 | 5 | 151 | 157ms | 55ms | 54ms | 54ms |
| node218 | 23 | 5 | 5 | 167ms | 48ms | 48ms | 48ms |
| node219 | 46 | 6 | 23 | 150ms | 50ms | 48ms | 50ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node220 | 29 | 8 | 6 | 160ms | 49ms | 47ms | 48ms |
| node221 | 90 | 5 | 29 | 152ms | 51ms | 51ms | 50ms |
| node222 | 245 | 46 | 90 | 253ms | 63ms | 62ms | 58ms |
| node223 | 17 | 5 | 5 | 160ms | 47ms | 48ms | 46ms |
| node224 | 56 | 5 | 17 | 152ms | 49ms | 48ms | 48ms |
| node225 | 28 | 5 | 8 | 161ms | 47ms | 49ms | 48ms |
| node226 | 97 | 28 | 12 | 151ms | 52ms | 52ms | 50ms |
| node227 | 297 | 56 | 97 | 256ms | 64ms | 66ms | 61ms |
| node228 | 328 | 5 | 297 | 151ms | 64ms | 61ms | 61ms |
| node229 | 663 | 245 | 328 | 257ms | 89ms | 89ms | 86ms |
| node230 | 686 | 5 | 663 | 150ms | 84ms | 83ms | 79ms |
| node231 | 877 | 169 | 686 | 262ms | 105ms | 99ms | 100ms |
| node232 | 882 | 5 | 877 | 151ms | 92ms | 81ms | 88ms |
| node233 | 1258 | 182 | 882 | 255ms | 132ms | 124ms | 124ms |
| node234 | 1267 | 5 | 1258 | 152ms | 112ms | 99ms | 112ms |
| node235 | 1744 | 645 | 1267 | 258ms | 162ms | 165ms | 164ms |
| node236 | 7429 | 1389 | 1744 | 257ms | 270ms | 271ms | 196ms |
| node237 | 7429 | 5 | 7429 | 152ms | 271ms | 193ms | 252ms |
| node238 | 7429 | 58 | 7429 | 260ms | 278ms | 193ms | 259ms |
| node239 | 7429 | 226 | 7429 | 264ms | 280ms | 201ms | 274ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node240 | 7429 | 5 | 7429 | 152ms | 267ms | 190ms | 261ms |
| node241 | 25 | 5 | 5 | 160ms | 48ms | 48ms | 48ms |
| node242 | 37 | 5 | 25 | 150ms | 50ms | 49ms | 48ms |
| node243 | 17 | 5 | 5 | 161ms | 48ms | 50ms | 49ms |
| node244 | 71 | 37 | 17 | 260ms | 51ms | 51ms | 50ms |
| node245 | 139 | 5 | 71 | 153ms | 55ms | 54ms | 52ms |
| node246 | 7429 | 7429 | 139 | 264ms | 271ms | 205ms | 263ms |
| node247 | 7429 | 2574 | 7429 | 262ms | 279ms | 241ms | 313ms |
| node248 | 25 | 5 | 5 | 160ms | 48ms | 47ms | 46ms |
| node249 | 83 | 25 | 5 | 152ms | 53ms | 50ms | 49ms |
| node250 | 25 | 5 | 5 | 160ms | 47ms | 47ms | 49ms |
| node251 | 264 | 83 | 25 | 259ms | 62ms | 58ms | 57ms |
| node252 | 7429 | 7429 | 264 | 260ms | 282ms | 203ms | 273ms |
| node253 | 7429 | 25 | 7429 | 266ms | 286ms | 204ms | 264ms |
| node254 | 24 | 5 | 5 | 161ms | 47ms | 51ms | 47ms |
| node255 | 41 | 8 | 12 | 165ms | 49ms | 49ms | 48ms |
| node256 | 25 | 5 | 5 | 163ms | 47ms | 50ms | 48ms |
| node257 | 26 | 9 | 5 | 163ms | 48ms | 49ms | 47ms |
| node258 | 45 | 26 | 6 | 153ms | 50ms | 50ms | 48ms |
| node259 | 75 | 45 | 5 | 150ms | 53ms | 50ms | 49ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node260 | 14 | 7 | 6 | 164ms | 48ms | 47ms | 47ms |
| node261 | 23 | 5 | 14 | 151ms | 47ms | 52ms | 50ms |
| node262 | 14 | 5 | 5 | 161ms | 47ms | 47ms | 47ms |
| node263 | 18 | 5 | 5 | 162ms | 47ms | 47ms | 47ms |
| node264 | 36 | 14 | 18 | 254ms | 49ms | 50ms | 49ms |
| node265 | 47 | 36 | 5 | 157ms | 50ms | 49ms | 49ms |
| node266 | 66 | 23 | 47 | 259ms | 50ms | 50ms | 50ms |
| node267 | 25 | 5 | 8 | 163ms | 48ms | 48ms | 49ms |
| node268 | 92 | 66 | 25 | 260ms | 51ms | 51ms | 53ms |
| node269 | 12 | 5 | 5 | 161ms | 47ms | 47ms | 47ms |
| node270 | 20 | 5 | 12 | 151ms | 48ms | 49ms | 47ms |
| node271 | 29 | 20 | 5 | 154ms | 51ms | 48ms | 48ms |
| node272 | 32 | 5 | 29 | 154ms | 50ms | 48ms | 49ms |
| node273 | 15 | 5 | 5 | 163ms | 48ms | 47ms | 46ms |
| node274 | 50 | 32 | 15 | 265ms | 51ms | 50ms | 49ms |
| node275 | 20 | 6 | 8 | 162ms | 48ms | 51ms | 47ms |
| node276 | 14 | 6 | 5 | 162ms | 49ms | 47ms | 47ms |
| node277 | 19 | 6 | 14 | 150ms | 49ms | 48ms | 47ms |
| node278 | 33 | 19 | 9 | 150ms | 49ms | 48ms | 48ms |
| node279 | 57 | 20 | 33 | 265ms | 50ms | 49ms | 50ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node280 | 98 | 50 | 57 | 255ms | 52ms | 51ms | 51ms |
| node281 | 107 | 6 | 98 | 151ms | 51ms | 51ms | 51ms |
| node282 | 178 | 92 | 107 | 258ms | 56ms | 56ms | 56ms |
| node283 | 190 | 178 | 6 | 151ms | 56ms | 52ms | 54ms |
| node284 | 196 | 5 | 190 | 153ms | 57ms | 52ms | 53ms |
| node285 | 200 | 5 | 196 | 151ms | 55ms | 52ms | 54ms |
| node286 | 293 | 75 | 200 | 253ms | 62ms | 66ms | 62ms |
| node287 | 436 | 5 | 293 | 152ms | 68ms | 66ms | 64ms |
| node288 | 559 | 5 | 436 | 152ms | 75ms | 69ms | 70ms |
| node289 | 666 | 25 | 559 | 257ms | 86ms | 78ms | 82ms |
| node290 | 1098 | 41 | 666 | 257ms | 112ms | 100ms | 101ms |
| node291 | 1383 | 8 | 1098 | 151ms | 119ms | 106ms | 111ms |
| node292 | 1565 | 24 | 1383 | 257ms | 139ms | 129ms | 133ms |
| node293 | 7429 | 7429 | 1565 | 267ms | 282ms | 238ms | 311ms |
| node294 | 7429 | 796 | 7429 | 269ms | 284ms | 221ms | 281ms |
| node295 | 37 | 8 | 10 | 166ms | 48ms | 50ms | 47ms |
| node296 | 26 | 5 | 7 | 162ms | 48ms | 48ms | 47ms |
| node297 | 24 | 5 | 5 | 160ms | 47ms | 48ms | 48ms |
| node298 | 41 | 5 | 24 | 155ms | 49ms | 50ms | 50ms |
| node299 | 24 | 5 | 5 | 165ms | 48ms | 50ms | 47ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node300 | 58 | 24 | 5 | 149ms | 50ms | 53ms | 48ms |
| node301 | 174 | 41 | 58 | 262ms | 57ms | 61ms | 55ms |
| node302 | 305 | 26 | 174 | 268ms | 65ms | 67ms | 62ms |
| node303 | 21 | 5 | 6 | 166ms | 48ms | 48ms | 47ms |
| node304 | 38 | 5 | 21 | 154ms | 48ms | 50ms | 48ms |
| node305 | 16 | 6 | 5 | 165ms | 47ms | 51ms | 47ms |
| node306 | 24 | 5 | 16 | 153ms | 47ms | 50ms | 48ms |
| node307 | 34 | 5 | 24 | 156ms | 48ms | 51ms | 49ms |
| node308 | 47 | 5 | 34 | 155ms | 50ms | 51ms | 48ms |
| node309 | 13 | 5 | 5 | 162ms | 48ms | 48ms | 47ms |
| node310 | 19 | 5 | 13 | 153ms | 47ms | 50ms | 48ms |
| node311 | 27 | 7 | 7 | 167ms | 47ms | 50ms | 47ms |
| node312 | 31 | 5 | 27 | 151ms | 48ms | 49ms | 48ms |
| node313 | 73 | 5 | 31 | 150ms | 50ms | 51ms | 49ms |
| node314 | 97 | 73 | 5 | 152ms | 52ms | 53ms | 50ms |
| node315 | 151 | 6 | 97 | 153ms | 56ms | 58ms | 52ms |
| node316 | 171 | 7 | 151 | 150ms | 56ms | 54ms | 54ms |
| node317 | 236 | 19 | 171 | 255ms | 62ms | 59ms | 59ms |
| node318 | 309 | 47 | 236 | 256ms | 67ms | 66ms | 64ms |
| node319 | 18 | 5 | 5 | 162ms | 47ms | 47ms | 46ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|---|---|---|---|---|---|---|---|
| node320 | 30 | 5 | 18 | 151ms | 47ms | 51ms | 47ms |
| node321 | 51 | 6 | 30 | 152ms | 49ms | 51ms | 49ms |
| node322 | 65 | 51 | 5 | 150ms | 51ms | 55ms | 49ms |
| node323 | 424 | 309 | 65 | 259ms | 72ms | 71ms | 69ms |
| node324 | 464 | 5 | 424 | 150ms | 73ms | 70ms | 69ms |
| node325 | 14 | 5 | 6 | 164ms | 47ms | 49ms | 48ms |
| node326 | 25 | 5 | 14 | 157ms | 48ms | 49ms | 48ms |
| node327 | 536 | 464 | 25 | 256ms | 79ms | 75ms | 77ms |
| node328 | 569 | 6 | 536 | 153ms | 79ms | 74ms | 77ms |
| node329 | 739 | 38 | 569 | 256ms | 94ms | 86ms | 87ms |
| node330 | 23 | 5 | 5 | 162ms | 48ms | 49ms | 47ms |
| node331 | 25 | 5 | 5 | 161ms | 48ms | 49ms | 47ms |
| node332 | 24 | 5 | 6 | 161ms | 47ms | 47ms | 47ms |
| node333 | 46 | 24 | 5 | 150ms | 49ms | 48ms | 48ms |
| node334 | 72 | 5 | 46 | 149ms | 50ms | 50ms | 50ms |
| node335 | 98 | 72 | 6 | 150ms | 52ms | 51ms | 50ms |
| node336 | 212 | 25 | 98 | 254ms | 58ms | 56ms | 55ms |
| node337 | 30 | 5 | 9 | 160ms | 47ms | 47ms | 47ms |
| node338 | 76 | 30 | 5 | 150ms | 50ms | 51ms | 50ms |
| node339 | 25 | 5 | 5 | 162ms | 48ms | 47ms | 47ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| node340 | 68 | 6 | 25 | 150ms | 50ms | 51ms | 49ms |
| node341 | 26 | 6 | 5 | 160ms | 48ms | 47ms | 47ms |
| node342 | 140 | 68 | 26 | 258ms | 54ms | 53ms | 52ms |
| node343 | 244 | 76 | 140 | 255ms | 61ms | 62ms | 59ms |
| node344 | 267 | 5 | 244 | 150ms | 61ms | 65ms | 61ms |
| node345 | 22 | 5 | 6 | 160ms | 48ms | 57ms | 47ms |
| node346 | 48 | 22 | 5 | 152ms | 49ms | 60ms | 48ms |
| node347 | 65 | 48 | 6 | 154ms | 51ms | 61ms | 52ms |
| node348 | 101 | 65 | 7 | 150ms | 52ms | 62ms | 51ms |
| node349 | 416 | 267 | 101 | 259ms | 70ms | 84ms | 68ms |
| node350 | 455 | 5 | 416 | 150ms | 70ms | 81ms | 66ms |
| node351 | 701 | 212 | 455 | 254ms | 90ms | 95ms | 85ms |
| node352 | 19 | 7 | 5 | 161ms | 48ms | 47ms | 47ms |
| node353 | 35 | 5 | 19 | 152ms | 48ms | 48ms | 48ms |
| node354 | 7 | 5 | 5 | 160ms | 46ms | 49ms | 46ms |
| node355 | 25 | 6 | 7 | 150ms | 47ms | 53ms | 47ms |
| node356 | 42 | 5 | 25 | 151ms | 49ms | 57ms | 49ms |
| node357 | 47 | 5 | 42 | 150ms | 49ms | 59ms | 49ms |
| node358 | 83 | 47 | 5 | 150ms | 52ms | 54ms | 51ms |
| node359 | 15 | 6 | 5 | 161ms | 47ms | 48ms | 46ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| node360 | 122 | 83 | 15 | 256ms | 54ms | 64ms | 53ms |
| node361 | 21 | 5 | 5 | 161ms | 47ms | 54ms | 47ms |
| node362 | 51 | 21 | 6 | 154ms | 49ms | 54ms | 49ms |
| node363 | 75 | 6 | 51 | 151ms | 51ms | 55ms | 50ms |
| node364 | 101 | 75 | 5 | 150ms | 52ms | 51ms | 51ms |
| node365 | 283 | 122 | 101 | 263ms | 64ms | 65ms | 61ms |
| node366 | 373 | 35 | 283 | 256ms | 68ms | 70ms | 65ms |
| node367 | 420 | 373 | 5 | 151ms | 69ms | 64ms | 65ms |
| node368 | 473 | 5 | 420 | 151ms | 71ms | 65ms | 67ms |
| node369 | 1117 | 701 | 473 | 257ms | 114ms | 114ms | 111ms |
| node370 | 1195 | 23 | 1117 | 259ms | 114ms | 107ms | 110ms |
| node371 | 9 | 5 | 5 | 160ms | 46ms | 48ms | 46ms |
| node372 | 23 | 9 | 5 | 151ms | 47ms | 49ms | 47ms |
| node373 | 17 | 5 | 5 | 160ms | 47ms | 49ms | 47ms |
| node374 | 41 | 5 | 17 | 150ms | 49ms | 50ms | 48ms |
| node375 | 81 | 41 | 5 | 152ms | 50ms | 52ms | 49ms |
| node376 | 25 | 5 | 5 | 162ms | 47ms | 49ms | 47ms |
| node377 | 182 | 81 | 25 | 255ms | 59ms | 57ms | 55ms |
| node378 | 271 | 23 | 182 | 257ms | 64ms | 64ms | 63ms |
| node379 | 25 | 5 | 5 | 160ms | 50ms | 49ms | 47ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|------|---------|---------|---------|------------|---------|------|--------|
| node380 | 69 | 6 | 25 | 152ms | 50ms | 51ms | 49ms |
| node381 | 91 | 5 | 69 | 150ms | 51ms | 50ms | 50ms |
| node382 | 466 | 271 | 91 | 256ms | 74ms | 72ms | 70ms |
| node383 | 1553 | 1195 | 466 | 255ms | 134ms | 125ms | 128ms |
| node384 | 1556 | 1553 | 6 | 150ms | 118ms | 104ms | 113ms |
| node385 | 2211 | 739 | 1556 | 269ms | 192ms | 182ms | 187ms |
| node386 | 2336 | 5 | 2211 | 154ms | 163ms | 139ms | 155ms |
| node387 | 2372 | 5 | 2336 | 168ms | 170ms | 163ms | 157ms |
| node388 | 2639 | 305 | 2372 | 256ms | 244ms | 267ms | 231ms |
| node389 | 25 | 5 | 5 | 161ms | 50ms | 50ms | 47ms |
| node390 | 2764 | 2639 | 25 | 258ms | 192ms | 163ms | 181ms |
| node391 | 2963 | 37 | 2764 | 262ms | 236ms | 222ms | 224ms |
| node392 | 3006 | 5 | 2963 | 152ms | 207ms | 177ms | 199ms |
| node393 | 7429 | 7429 | 3006 | 275ms | 296ms | 265ms | 337ms |
| node394 | 7429 | 927 | 7429 | 278ms | 291ms | 228ms | 288ms |
| node395 | 7429 | 7429 | 6 | 167ms | 280ms | 202ms | 282ms |
| node396 | 17 | 5 | 5 | 160ms | 49ms | 49ms | 47ms |
| node397 | 25 | 5 | 17 | 151ms | 49ms | 48ms | 49ms |
| node398 | 7429 | 7429 | 25 | 266ms | 287ms | 206ms | 279ms |
| node399 | 7429 | 7429 | 5 | 165ms | 280ms | 199ms | 266ms |

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| node | psrsize | lsrsize | rsrsize | tippattern | repeats | bclv | bclv 2 |
|------|---------|---------|---------|------------|---------|------|--------|
| node400 | 7429 | 6 | 7429 | 169ms | 282ms | 205ms | 262ms |
| node401 | 7429 | 7429 | 5 | 164ms | 280ms | 204ms | 260ms |

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