# Libpll full tree CLV update benchmarks

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# 1 Benchmark

### CPU architecture (computer: my hits computer), 500 iterations

|  | seq59 | seq128 | seq404 |
|---|---|---|---|
| tip pattern mode | 4125ms | 51896ms | 64407ms |
| repeats no update 2000000 | 3591ms | 30355ms | 24161ms |
| repeats 2000000 | 3947ms | 34632ms | 29333ms |
| repeats + bclv 2000000 | 2891ms | 25572ms | 20656ms |
| repeats + bclv2 2000000 | 2641ms | 24148ms | 20850ms |

### AVX architecture (computer: my hits computer), 500 iterations

|  | seq59 | seq128 | seq404 |
|---|---|---|---|
| tip pattern mode | 1597ms | 22329ms | 25036ms |
| repeats no update 2000000 | 491ms | 5096ms | 4302ms |
| repeats 2000000 | 912ms | 9321ms | 9004ms |
| repeats + bclv 2000000 | 852ms | 8865ms | 8421ms |
| repeats + bclv2 2000000 | 907ms | 9593ms | 9095ms |

### CPU architecture (computer: avx), 500 iterations

|  | seq59 | seq128 | seq404 |
|---|---|---|---|
| tip pattern mode | 5642ms | 72772ms | 92708ms |
| repeats no update 2000000 | 1747ms | 15508ms | 12372ms |
| repeats 2000000 | 2305ms | 21764ms | 19153ms |
| repeats + bclv 2000000 | 2015ms | 19541ms | 16916ms |
| repeats + bclv2 2000000 | 2155ms | 20877ms | 18511ms |

**AVX architecture (computer: avx), 500 iterations**

|  | seq59 | seq128 | seq404 |
|---|---|---|---|
| tip pattern mode | 2131ms | 29971ms | 33231ms |
| repeats no update 2000000 | 660ms | 6649ms | 5174ms |
| repeats 2000000 | 1239ms | 12731ms | 11953ms |
| repeats + bclv 2000000 | 1146ms | 12071ms | 11244ms |
| repeats + bclv2 2000000 | 1217ms | 13285ms | 12015ms |

**CPU architecture (computer: play), 500 iterations**

|  | seq59 | seq128 | seq404 |
|---|---|---|---|
| tip pattern mode | 15546ms | 212398ms | 285752ms |
| repeats no update 2000000 | 4593ms | 39958ms | 30911ms |
| repeats 2000000 | 5741ms | 60693ms | 50494ms |
| repeats + bclv 2000000 | 5412ms | 54222ms | 48397ms |
| repeats + bclv2 2000000 | 5484ms | 57526ms | 50360ms |

**AVX architecture (computer: play), 500 iterations**

|  | seq59 | seq128 | seq404 |
|---|---|---|---|
| tip pattern mode | 17107ms | 226069ms | 287151ms |
| repeats no update 2000000 | 4781ms | 40610ms | 33130ms |
| repeats 2000000 | 6013ms | 60118ms | 48222ms |
| repeats + bclv 2000000 | 5434ms | 58475ms | 51413ms |
| repeats + bclv2 2000000 | 6169ms | 55909ms | 49226ms |