Linked List Cursor List StackAr StackLi

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| --- | --- | --- | --- | --- | --- | --- | --- |
| File # | Time | File # | Time | File # | Time | File # | Time |
| 1 | .116369 | 1 | .100937 | 1 | .077046 | 1 | 0.098254 |
| 2 | 58.2648 | 2 | 58.1939 | 2 | 0.057618 | 2 | 0.069156 |
| 3 | 0.085239 | 3 | 0.085946 | 3 | 0.057967 | 3 | 0.069105 |
| 4 | 32.9457 | 4 | 149.947 | 4 | 0.061039 | 4 | 0.072085 |

QueueAr Skip List Binary Search Tree AVL Tree

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| File # | Time | File # | Time | File # | Time | File # | Time |
| 1 | .326449 | 1 | .334423 | 1 | 5+ min | 1 | .384528 |
| 2 | 0.061192 | 2 | 0.228541 | 2 | 221.069 | 2 | 0.301962 |
| 3 | 0.061934 | 3 | 0.265299 | 3 | 5+ min | 3 | 0.313834 |
| 4 | 0.065572 | 4 | 0.463072 | 4 | .279499 | 4 | 0.4578 |

Splay Tree BTree M=3;L=1 BTree M=3;L=200 BTree M=1000;L=2

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| --- | --- | --- | --- | --- | --- | --- | --- |
| File # | Time | File # | Time | File # | Time | File # | Time |
| 1 | .136577 | 1 | .29041 | 1 | .287995 | 1 | 1.43829 |
| 2 | 0.107291 | 2 | 0.407836 | 2 | 0.493676 | 2 | 2.06341 |
| 3 | 0.09819 | 3 | 0.249488 | 3 | 0.404055 | 3 | 1.38601 |
| 4 | 0.325606 | 4 | 0.532534 | 4 | 0.562537 | 4 | 1.92374 |

BTree M=1000;L=200 SCHash **λ** = .5 SCHash **λ** = 1 SCHash **λ** = 10

File 1 TableSize = 500000 TS = 250000 TS = 25000

File 2 - 4 TableSize = 250000 TS = 125000 TS = 12500

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| --- | --- | --- | --- | --- | --- | --- | --- |
| File # | Time | File # | Time | File # | Time | File # | Time |
| 1 | .632014 | 1 | 0.154126 | 1 | 0.148208 | 1 | 0.148107 |
| 2 | 0.69407 | 2 | 0.117539 | 2 | 0.118011 | 2 | 0.13742 |
| 3 | 0.690797 | 3 | 0.115646 | 3 | 0.118751 | 3 | 0.113371 |
| 4 | 0.78156 | 4 | 0.179481 | 4 | 0.198177 | 4 | 0.251824 |

SCHash **λ** = 100 SCHash **λ** = 1000 QPHash **λ** = 2 QPHash **λ** = 1

TS = 2500 TS = 250 TS = 125000 TS = 250000

TS = 1250 TS = 125 TS = 62500 TS = 125000

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| --- | --- | --- | --- | --- | --- | --- | --- |
| File # | Time | File # | Time | File # | Time | File # | Time |
| 1 | 0.241247 | 1 | 2.35934 | 1 | 0.138752 | 1 | 0.123099 |
| 2 | 0.642463 | 2 | 3.31644 | 2 | 0.116084 | 2 | 0.103145 |
| 3 | 0.215167 | 3 | 1.52435 | 3 | 0.083403 | 3 | 0.100926 |
| 4 | 0.953188 | 4 | 7.92103 | 4 | 0.115418 | 4 | 0.103192 |

QPHash **λ** = .5 QPHash **λ** = .25 QPHash **λ** = .1 Binary Heap

TS = 500000 TS = 1000000 TS = 2500000

TS = 250000 TS = 500000 TS = 1250000

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| File # | Time | File # | Time | File # | Time | File # | Time |
| 1 | 0.086251 | 1 | 0.086768 | 1 | 0.087642 | 1 | 0.08013 |
| 2 | 0.08319 | 2 | 0.083111 | 2 | 0.083913 | 2 | 0.177959 |
| 3 | 0.084934 | 3 | 0.081998 | 3 | 0.08264 | 3 | 0.175014 |
| 4 | 0.089409 | 4 | 0.085848 | 4 | 0.085458 | 4 | 0.18463 |

QPPHash **λ** = 2 QPPHash **λ** = 1 QPPHash **λ** = .5 QPPHash **λ** = .25

TS = 125000 TS = 250000 TS = 500000 TS = 1000000

TS = 62500 TS = 125000 TS = 250000 = 500000

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| --- | --- | --- | --- | --- | --- | --- | --- |
| File # | Time | File # | Time | File # | Time | File # | Time |
| 1 | 0.17399 | 1 | 0.152451 | 1 | 0.128637 | 1 | 0.130982 |
| 2 | 0.135193 | 2 | 0.129888 | 2 | 0.115921 | 2 | 0.116868 |
| 3 | 0.133814 | 3 | 0.131013 | 3 | 0.112234 | 3 | 0.116601 |
| 4 | 0.169108 | 4 | 0.161292 | 4 | 0.136228 | 4 | 0.139589 |

QPPHash **λ** = .1

TS = 2500000

TS = 1250000

|  |  |
| --- | --- |
| File # | Time |
| 1 | 0.151865 |
| 2 | 0.131276 |
| 3 | 0.128709 |
| 4 | 0.151837 |