Sevarebench Measurement Results MP-Slice Scalable Search

Various Measurements

March 30, 2023

Nodes: idex meld tinyman yieldly (Intel 6312U(2.4GHz) 512GiB 25Gbits)

Protocols: 12 ... 6

Datatypes: 8 64 128 256 512 Inputs: 1024 10240 102400

Preprocessing: 0 1 SplitRoles: 0 1 2 Pack Bool: 0

Optimized Sharing: 1

SSL: 0 1

Summary file: resultsMP-Slice/2023-03/30_10-26-19/Eslice-run-summary.dat

Total Experiment runtime: 6h11min49sec Experiment run status: completed Latex built date: 23.03.30 16:51 Experiment Networking Information Speedtest Info measured speed between nodes 1 and 2 Threads: 1 total sender speed: 24.7 Gbits/sec total receiver speed: 24.7 Gbits/sec Threads: 10 total sender speed: 24.82 Gbits/sec total receiver speed: 24.80 Gbits/sec measured speed between nodes 1 and 3 Threads: 1 total sender speed: 24.7 Gbits/sec total receiver speed: 24.7 Gbits/sec Threads: 10 total sender speed: 24.82 Gbits/sec total receiver speed: 24.80 Gbits/sec measured speed between nodes 2 and 3 Threads: 1 total sender speed: 24.8 Gbits/sec total receiver speed: 24.8 Gbits/sec Threads: 10 total sender speed: 24.81 Gbits/sec total receiver speed: 24.79 Gbits/sec measured speed between nodes 1 and 4 Threads: 1 total sender speed: 24.7 Gbits/sec total receiver speed: 24.7 Gbits/sec Threads: 10 total sender speed: 24.81 Gbits/sec total receiver speed: 24.80 Gbits/sec measured speed between nodes 2 and 4 Threads: 1 total sender speed: 24.7 Gbits/sec

total receiver speed: 24.7 Gbits/sec

total sender speed: 24.81 Gbits/sec

Threads: 10

total receiver speed: 24.79 Gbits/sec measured speed between nodes 3 and 4 Threads: 1

total sender speed: 24.7 Gbits/sec total receiver speed: 24.7 Gbits/sec

Threads: 10

total sender speed: 24.81 Gbits/sec total receiver speed: 24.76 Gbits/sec

Latency Info

Node idex statistics

- 10.10.115.3 ping statistics -
- rtt min/avg/max/mdev = 0.243/0.314/0.532/0.109 ms — 10.10.115.4 ping statistics —
- rtt min/avg/max/mdev = 0.250/0.298/0.409/0.058 ms
- 10.10.115.5 ping statistics -
- rtt min/avg/max/mdev = 0.251/0.270/0.290/0.015 ms Node meld statistics

- 10.10.115.4 ping statistics -

- rtt min/avg/max/mdev = 0.116/0.205/0.514/0.154 ms
- 10.10.115.5 ping statistics —
- rtt min/avg/max/mdev = 0.247/0.309/0.461/0.077 ms
- 10.10.115.2 ping statistics rtt min/avg/max/mdev = 0.262/0.294/0.313/0.018 ms
- Node tinyman statistics
- 10.10.115.5 ping statistics -
- rtt min/avg/max/mdev = 0.253/0.292/0.398/0.053 ms
- 10.10.115.2 ping statistics -
- rtt min/avg/max/mdev = 0.260/0.276/0.287/0.008 ms
- 10.10.115.3 ping statistics —
- rtt min/avg/max/mdev = 0.191/0.275/0.309/0.042 ms Node yieldly statistics
- 10.10.115.2 ping statistics —
- rtt min/avg/max/mdev = 0.240/0.307/0.508/0.101 ms - 10.10.115.3 ping statistics -
- rtt min/avg/max/mdev = 0.232/0.256/0.277/0.017 ms
- 10.10.115.4 ping statistics —
- rtt min/avg/max/mdev = 0.216/0.270/0.291/0.027 ms

Outline I

manipulations

Datatype Fixed Input: 102400 all (all) pre0spiti0pack0opt1ssl0 Datatype Fixed Input: 102400 all (all) pre0spiti0pack0opt1ssl1 Datatype Fixed Input: 102400 all (all) pre0spiti1pack0opt1ssl1 Datatype Fixed Input: 102400 all (all) pre0spit1pack0opt1ssl1 Datatype Fixed Input: 102400 all (all) pre0spit1pack0opt1ssl1 Datatype Fixed Input: 102400 all (all) pre0spit2pack0opt1ssl0 Datatype Fixed Input: 102400 all (all) pre1spit0pack0opt1ssl0 Datatype Fixed Input: 102400 all (all) pre1spit0pack0opt1ssl0 Datatype Fixed Input: 102400 all (all) pre1spit1pack0opt1ssl0 Datatype Fixed Input: 102400 all (all) pre1spit1pack0opt1ssl0 Datatype Fixed Input: 102400 all (all) pre1spit2pack0opt1ssl0 Datatype Fixed Input: 102400 all (all) pre1spit2pack0opt1ssl0 Datatype Fixed Input: 102400 all (all) pre1spit2pack0opt1ssl0 Datatype Fixed Input: 102400 all (all) pre1spit2pack0opt1ssl0

input

Input Size Protocol -s 1 (Sharemind) pre0split0pack0opt1ssl0 Input Size Protocol -s 1 (Sharemind) pre0split0pack0opt1ssl1 Input Size Protocol -s 1 (Sharemind) pre0split1pack0opt1ssl0 Input Size Protocol -s 1 (Sharemind) pre0split1pack0opt1ssl1 Input Size Protocol -s 1 (Sharemind) pre0split2pack0opt1ssl0 Input Size Protocol -s 1 (Sharemind) pre0split2pack0opt1ssl1 Input Size Protocol -s 1 (Sharemind) pre1split0pack0opt1ssl0 Input Size Protocol -s 1 (Sharemind) pre1split0pack0opt1ssl1 Input Size Protocol -s 1 (Sharemind) pre1split1pack0opt1ssl0 Input Size Protocol -s 1 (Sharemind) pre1split1pack0opt1ssl1 Input Size Protocol -s 1 (Sharemind) pre1split2pack0opt1ssl0 Input Size Protocol -s 1 (Sharemind) pre1split2pack0opt1ssl1 Input Size Protocol -s 2 (Replicated) pre0split0pack0opt1ssl0 Input Size Protocol -s 2 (Replicated) pre0split0pack0opt1ssl1 Input Size Protocol -s 2 (Replicated) pre0split1pack0opt1ssl0 Input Size Protocol -s 2 (Replicated) pre0split1pack0opt1ssl1 Input Size Protocol -s 2 (Replicated) pre0split2pack0opt1ssl0 Input Size Protocol -s 2 (Replicated) pre0split2pack0opt1ssl1 Input Size Protocol -s 2 (Replicated) pre1split0pack0opt1ssl0 Input Size Protocol -s 2 (Replicated) pre1split0pack0opt1ssl1

Outline II

```
Input Size Protocol -s 2 (Replicated) pre1split1pack0opt1ssl0
Input Size Protocol -s 2 (Replicated) pre1split1pack0opt1ssl1
Input Size Protocol -s 2 (Replicated) pre1split2pack0opt1ssl0
Input Size Protocol -s 2 (Replicated) pre1split2pack0opt1ssl1
Input Size Protocol -s 3 (Astra) pre0split0pack0opt1ssl0
Input Size Protocol -s 3 (Astra) pre0split0pack0opt1ssl1
Input Size Protocol -s 3 (Astra) pre0split1pack0opt1ssl0
Input Size Protocol -s 3 (Astra) pre0split1pack0opt1ssl1
Input Size Protocol -s 3 (Astra) pre0split2pack0opt1ssl0
Input Size Protocol -s 3 (Astra) pre0split2pack0opt1ssl1
Input Size Protocol -s 3 (Astra) pre1split0pack0opt1ssl0
Input Size Protocol -s 3 (Astra) pre1split0pack0opt1ssl1
Input Size Protocol -s 3 (Astra) pre1split1pack0opt1ssl0
Input Size Protocol -s 3 (Astra) pre1split1pack0opt1ssl1
Input Size Protocol -s 3 (Astra) pre1split2pack0opt1ssl0
Input Size Protocol -s 3 (Astra) pre1split2pack0opt1ssl1
Input Size Protocol -s 4 (OEC DUP) pre0split0pack0opt1ssl0
Input Size Protocol -s 4 (OEC DUP) pre0split0pack0opt1ssl1
Input Size Protocol -s 4 (OEC DUP) pre0split1pack0opt1ssl0
Input Size Protocol -s 4 (OEC DUP) pre0split1pack0opt1ssl1
Input Size Protocol -s 4 (OEC DUP) pre0split2pack0opt1ssl0
Input Size Protocol -s 4 (OEC DUP) pre0split2pack0opt1ssl1
Input Size Protocol -s 4 (OEC DUP) pre1split0pack0opt1ssl0
Input Size Protocol -s 4 (OEC DUP) pre1split0pack0opt1ssl1
Input Size Protocol -s 4 (OEC DUP) pre1split1pack0opt1ssl0
Input Size Protocol -s 4 (OEC DUP) pre1split1pack0opt1ssl1
Input Size Protocol -s 4 (OEC DUP) pre1split2pack0opt1ssl0
Input Size Protocol -s 4 (OEC DUP) pre1split2pack0opt1ssl1
Input Size Protocol -s 5 (OEC REP) pre0split0pack0opt1ssl0
Input Size Protocol -s 5 (OEC REP) pre0split0pack0opt1ssl1
Input Size Protocol -s 5 (OEC REP) pre0split1pack0opt1ssl0
Input Size Protocol -s 5 (OEC REP) pre0split1pack0opt1ssl1
Input Size Protocol -s 5 (OEC REP) pre0split2pack0opt1ssl0
```

Outline III

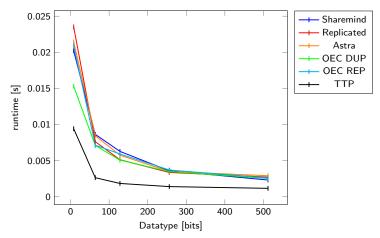
```
Input Size Protocol -s 5 (OEC REP) pre0split2pack0opt1ssl1
Input Size Protocol -s 5 (OEC REP) pre1split0pack0opt1ssl0
Input Size Protocol -s 5 (OEC REP) pre1split0pack0opt1ssl1
Input Size Protocol -s 5 (OEC REP) pre1split1pack0opt1ssl0
Input Size Protocol -s 5 (OEC REP) pre1split1pack0opt1ssl1
Input Size Protocol -s 5 (OEC REP) pre1split2pack0opt1ssl0
Input Size Protocol -s 5 (OEC REP) pre1split2pack0opt1ssl1
Input Size Protocol -s 6 (TTP) pre0split0pack0opt1ssl0
Input Size Protocol -s 6 (TTP) pre0split0pack0opt1ssl1
Input Size Protocol -s 6 (TTP) pre0split1pack0opt1ssl0
Input Size Protocol -s 6 (TTP) pre0split1pack0opt1ssl1
Input Size Protocol -s 6 (TTP) pre0split2pack0opt1ssl0
Input Size Protocol -s 6 (TTP) pre0split2pack0opt1ssl1
Input Size Protocol -s 6 (TTP) pre1split0pack0opt1ssl0
Input Size Protocol -s 6 (TTP) pre1split0pack0opt1ssl1
Input Size Protocol -s 6 (TTP) pre1split1pack0opt1ssl0
Input Size Protocol -s 6 (TTP) pre1split1pack0opt1ssl1
Input Size Protocol -s 6 (TTP) pre1split2pack0opt1ssl0
Input Size Protocol -s 6 (TTP) pre1split2pack0opt1ssl1
Input Size Datatype -d d8 (char) pre0split0pack0opt1ssl0
Input Size Datatype -d d8 (char) pre0split0pack0opt1ssl1
Input Size Datatype -d d8 (char) pre0split1pack0opt1ssl0
Input Size Datatype -d d8 (char) pre0split1pack0opt1ssl1
Input Size Datatype -d d8 (char) pre0split2pack0opt1ssl0
Input Size Datatype -d d8 (char) pre0split2pack0opt1ssl1
Input Size Datatype -d d8 (char) pre1split0pack0opt1ssl0
Input Size Datatype -d d8 (char) pre1split0pack0opt1ssl1
Input Size Datatype -d d8 (char) pre1split1pack0opt1ssl0
Input Size Datatype -d d8 (char) pre1split1pack0opt1ssl1
Input Size Datatype -d d8 (char) pre1split2pack0opt1ssl0
Input Size Datatype -d d8 (char) pre1split2pack0opt1ssl1
Input Size Datatype -d d64 (uint64) pre0split0pack0opt1ssl0
Input Size Datatype -d d64 (uint64) pre0split0pack0opt1ssl1
```

Outline IV

```
Input Size Datatype -d d64 (uint64) pre0split1pack0opt1ssl0
Input Size Datatype -d d64 (uint64) pre0split1pack0opt1ssl1
Input Size Datatype -d d64 (uint64) pre0split2pack0opt1ssl0
Input Size Datatype -d d64 (uint64) pre0split2pack0opt1ssl1
Input Size Datatype -d d64 (uint64) pre1split0pack0opt1ssl0
Input Size Datatype -d d64 (uint64) pre1split0pack0opt1ssl1
Input Size Datatype -d d64 (uint64) pre1split1pack0opt1ssl0
Input Size Datatype -d d64 (uint64) pre1split1pack0opt1ssl1
Input Size Datatype -d d64 (uint64) pre1split2pack0opt1ssl0
Input Size Datatype -d d64 (uint64) pre1split2pack0opt1ssl1
Input Size Datatype -d d128 (SSE) pre0split0pack0opt1ssl0
Input Size Datatype -d d128 (SSE) pre0split0pack0opt1ssl1
Input Size Datatype -d d128 (SSE) pre0split1pack0opt1ssl0
Input Size Datatype -d d128 (SSE) pre0split1pack0opt1ssl1
Input Size Datatype -d d128 (SSE) pre0split2pack0opt1ssl0
Input Size Datatype -d d128 (SSE) pre0split2pack0opt1ssl1
Input Size Datatype -d d128 (SSE) pre1split0pack0opt1ssl0
Input Size Datatype -d d128 (SSE) pre1split0pack0opt1ssl1
Input Size Datatype -d d128 (SSE) pre1split1pack0opt1ssl0
Input Size Datatype -d d128 (SSE) pre1split1pack0opt1ssl1
Input Size Datatype -d d128 (SSE) pre1split2pack0opt1ssl0
Input Size Datatype -d d128 (SSE) pre1split2pack0opt1ssl1
Input Size Datatype -d d256 (AVX) pre0split0pack0opt1ssl0
Input Size Datatype -d d256 (AVX) pre0split0pack0opt1ssl1
Input Size Datatype -d d256 (AVX) pre0split1pack0opt1ssl0
Input Size Datatype -d d256 (AVX) pre0split1pack0opt1ssl1
Input Size Datatype -d d256 (AVX) pre0split2pack0opt1ssl0
Input Size Datatype -d d256 (AVX) pre0split2pack0opt1ssl1
Input Size Datatype -d d256 (AVX) pre1split0pack0opt1ssl0
Input Size Datatype -d d256 (AVX) pre1split0pack0opt1ssl1
Input Size Datatype -d d256 (AVX) pre1split1pack0opt1ssl0
Input Size Datatype -d d256 (AVX) pre1split1pack0opt1ssl1
Input Size Datatype -d d256 (AVX) pre1split2pack0opt1ssl0
```

Outline V

```
Input Size Datatype -d d256 (AVX) pre1split2pack0opt1ssl1 Input Size Datatype -d d512 (AVX512) pre0split0pack0opt1ssl0 Input Size Datatype -d d512 (AVX512) pre0split0pack0opt1ssl1 Input Size Datatype -d d512 (AVX512) pre0split1pack0opt1ssl1 Input Size Datatype -d d512 (AVX512) pre0split1pack0opt1ssl1 Input Size Datatype -d d512 (AVX512) pre0split1pack0opt1ssl1 Input Size Datatype -d d512 (AVX512) pre0split2pack0opt1ssl1 Input Size Datatype -d d512 (AVX512) pre1split0pack0opt1ssl1 Input Size Datatype -d d512 (AVX512) pre1split0pack0opt1ssl1 Input Size Datatype -d d512 (AVX512) pre1split0pack0opt1ssl1 Input Size Datatype -d d512 (AVX512) pre1split1pack0opt1ssl1 Input Size Datatype -d d512 (AVX512) pre1split1pack0opt1ssl0 Input Size Datatype -d d512 (AVX512) pre1split2pack0opt1ssl0 Input Size Datatype -d d512 (AVX512)
```

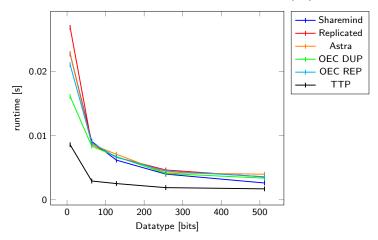


- Ref.Problem: Scalable Search

Library: MP-Slice - Fixed Input: 102400 all (all)

Metric: Datatype - runtime

- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0

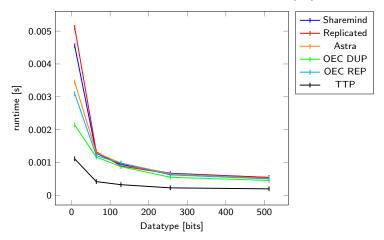


- Ref.Problem: Scalable Search

- Library: MP-Slice - Fixed Input: 102400 all (all)

- Metric: Datatype - runtime

Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1

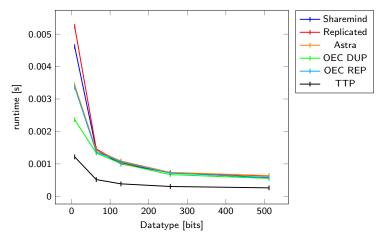


- Ref.Problem: Scalable Search

- Library: MP-Slice - Fixed Input: 102400 all (all)

- Metric: Datatype - runtime

Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0

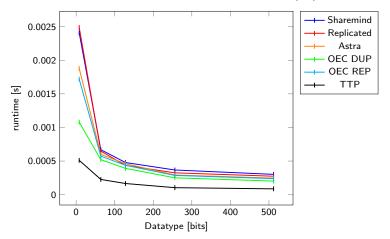


- Ref.Problem: Scalable Search

- Library: MP-Slice - Fixed Input: 102400 all (all)

- Metric: Datatype - runtime

- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 1

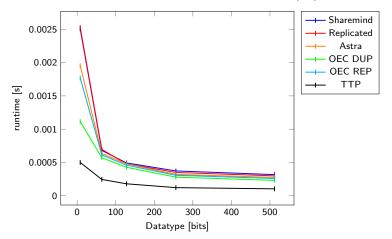


- Ref.Problem: Scalable Search

- Library: MP-Slice - Fixed Input: 102400 all (all)

Metric: Datatype - runtime

Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0



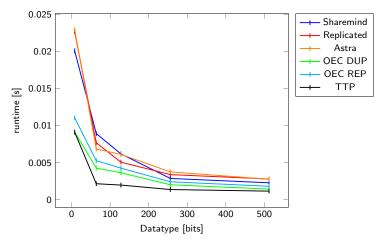
- Ref.Problem: Scalable Search

- Library: MP-Slice - Fixed Input: 102400 all (all)

- Metric: Datatype - runtime

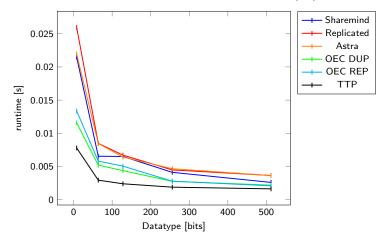
Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 1





- Ref.Problem: Scalable Search
- Library: MP-Slice Fixed Input: 102400 all (all)
- Metric: Datatype runtime
- Switches: Preprocessing: 1, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



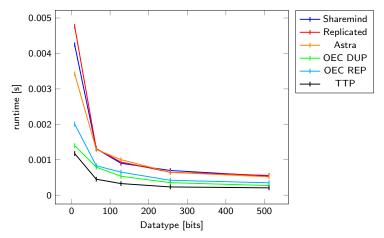


- Ref.Problem: Scalable Search

- Library: MP-Slice - Fixed Input: 102400 all (all)

- Metric: Datatype - runtime

Switches: Preprocessing: 1, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1

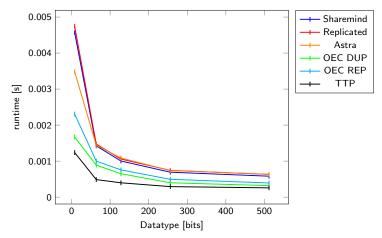


Ref.Problem: Scalable Search

- Library: MP-Slice - Fixed Input: 102400 all (all)

- Metric: Datatype - runtime

- Switches: Preprocessing: 1, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0



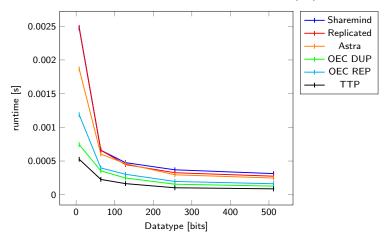
Ref.Problem: Scalable Search

- Library: MP-Slice - Fixed Input: 102400 all (all)

- Metric: Datatype - runtime

- Switches: Preprocessing: 1, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 1



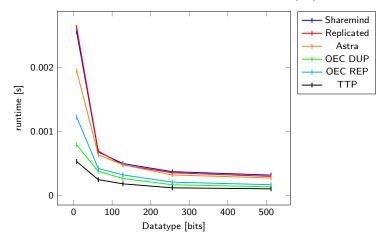


- Ref.Problem: Scalable Search

- Library: MP-Slice - Fixed Input: 102400 all (all)

- Metric: Datatype - runtime

Switches: Preprocessing: 1, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0



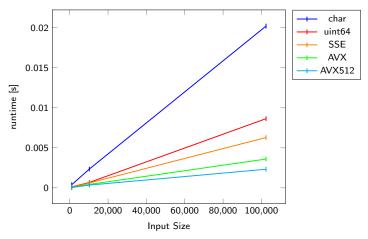
Ref.Problem: Scalable Search

- Library: MP-Slice - Fixed Input: 102400 all (all)

- Metric: Datatype - runtime

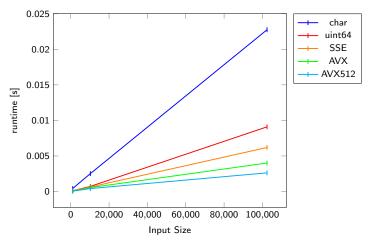
- Switches: Preprocessing: 1, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 1





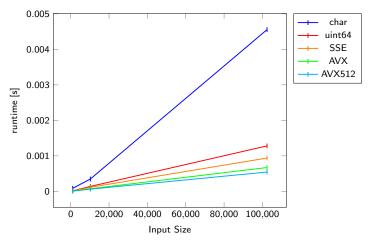
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 1 (Sharemind)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





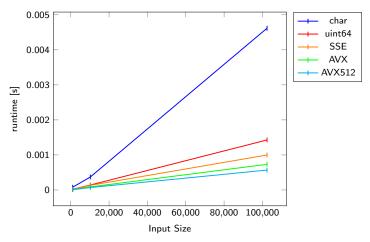
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 1 (Sharemind)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





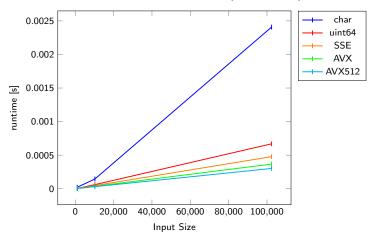
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 1 (Sharemind)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
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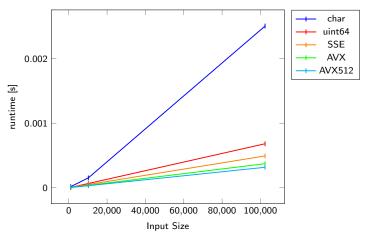
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 1 (Sharemind)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





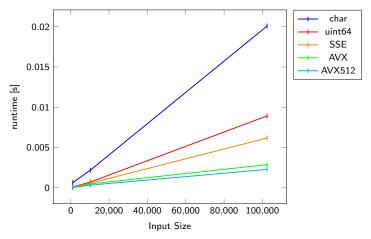
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 1 (Sharemind)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





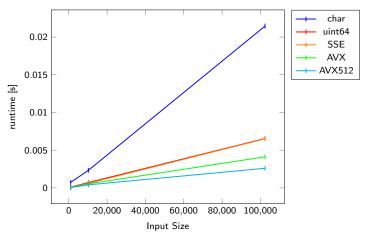
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 1 (Sharemind)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





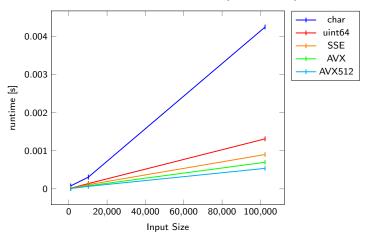
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 1 (Sharemind)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





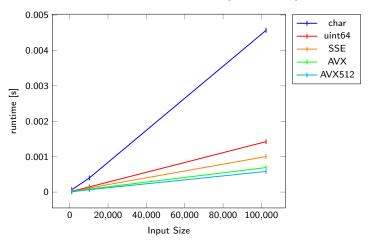
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 1 (Sharemind)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





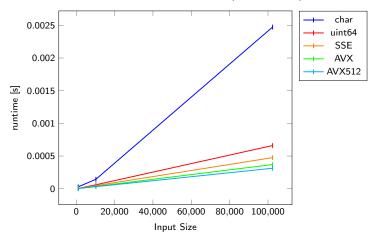
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 1 (Sharemind)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



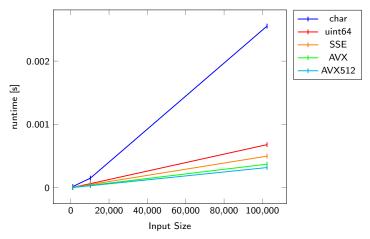


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 1 (Sharemind)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





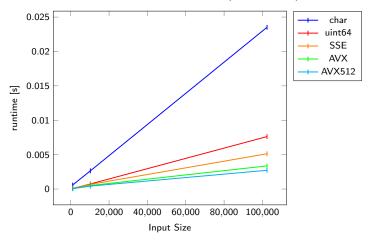
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 1 (Sharemind)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 1 (Sharemind)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



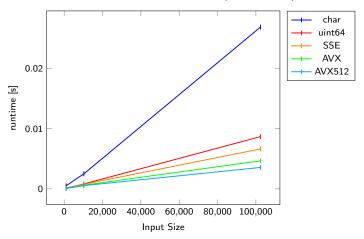
MP-Slice Runtimes Input Size Protocol -s 2 (Replicated)



- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 2 (Replicated)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



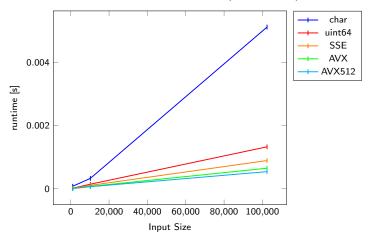
MP-Slice Runtimes Input Size Protocol -s 2 (Replicated)



- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 2 (Replicated)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

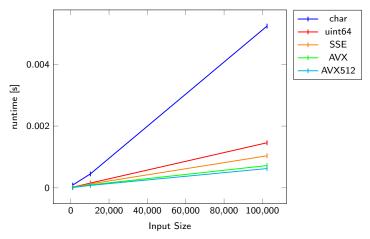


MP-Slice Runtimes Input Size Protocol -s 2 (Replicated)



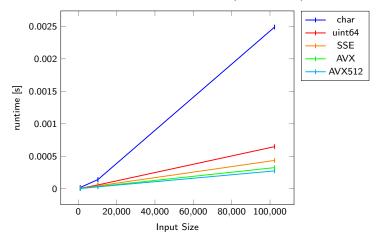
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 2 (Replicated)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





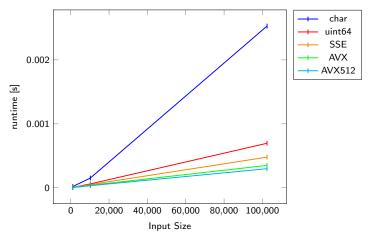
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 2 (Replicated)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





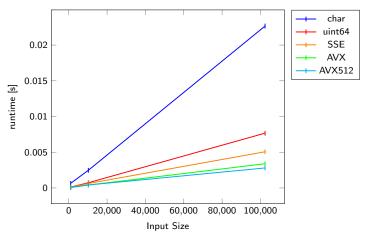
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 2 (Replicated)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



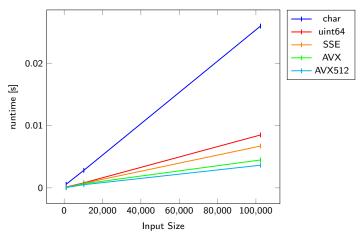


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 2 (Replicated)
- Metric: Input Size runtime
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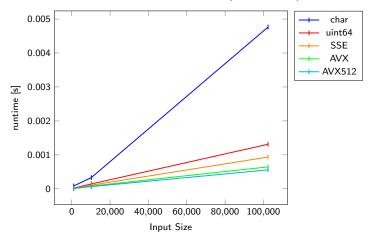


- Ref.Problem: Scalable Search
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- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

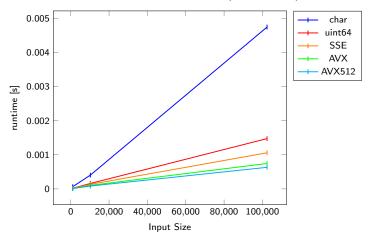


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 2 (Replicated)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



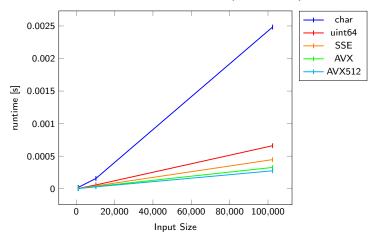


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 2 (Replicated)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



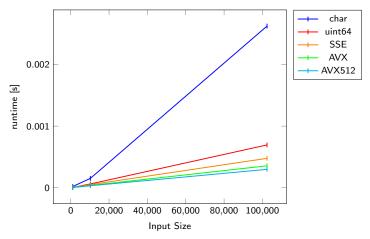
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- Library: MP-Slice Protocol -s 2 (Replicated)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





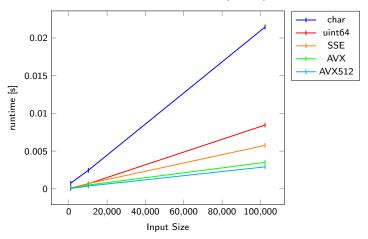
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- Library: MP-Slice Protocol -s 2 (Replicated)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



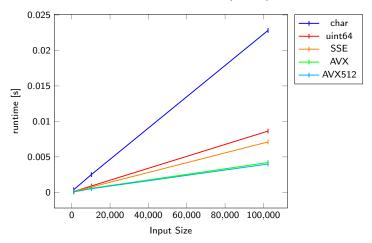


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- Library: MP-Slice Protocol -s 2 (Replicated)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



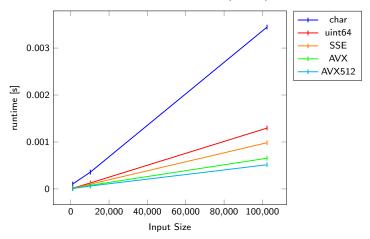


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 3 (Astra)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

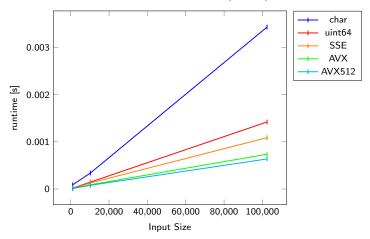


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 3 (Astra)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

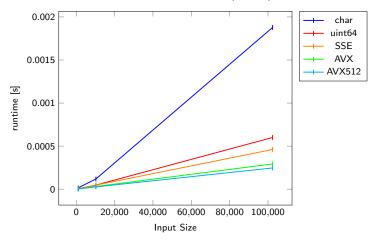




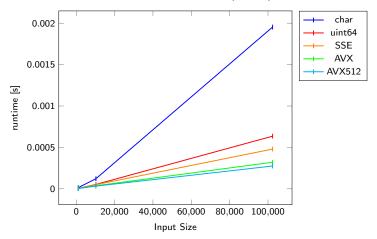
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- Library: MP-Slice Protocol -s 3 (Astra)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 3 (Astra)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 3 (Astra)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



- Ref.Problem: Scalable Search

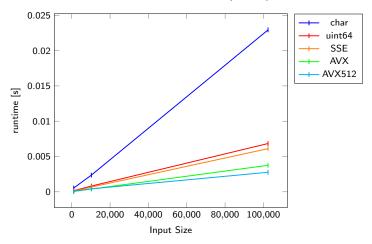
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- Metric: Input Size - runtime

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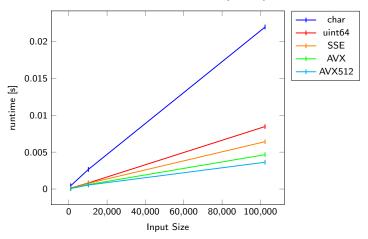
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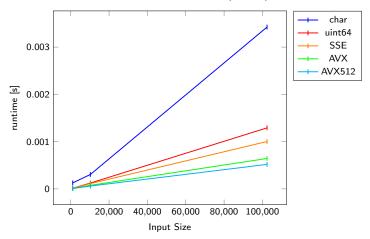


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 3 (Astra)
- Metric: Input Size runtime
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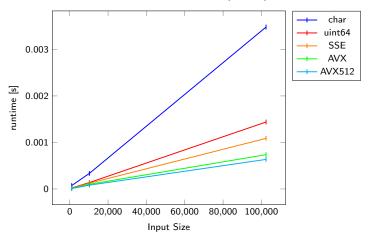




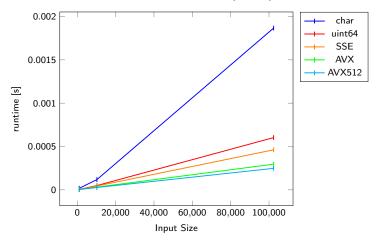
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- Switches: Preprocessing: 1, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
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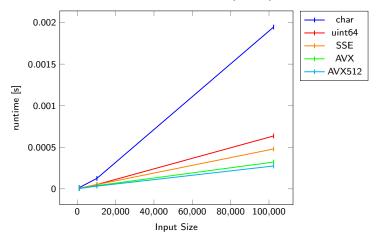
- Ref.Problem: Scalable Search
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- Ref.Problem: Scalable Search
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- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 3 (Astra)
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- Switches: Preprocessing: 1, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



- Ref.Problem: Scalable Search

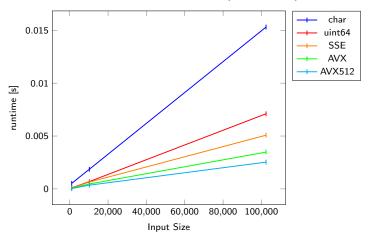
- Library: MP-Slice - Protocol -s 3 (Astra)

- Metric: Input Size - runtime

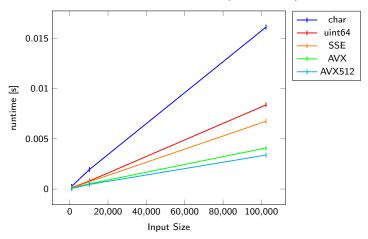
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Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

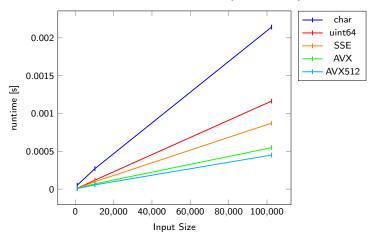




- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 4 (OEC DUP)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

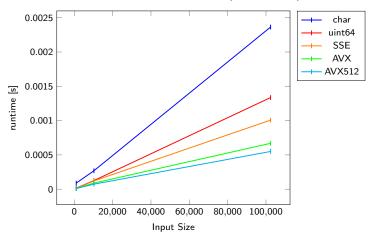


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 4 (OEC DUP)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

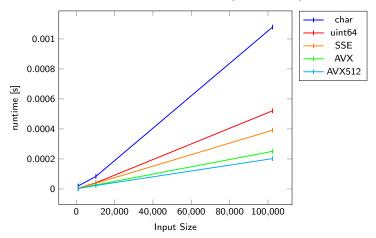


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 4 (OEC DUP)
- Metric: Input Size runtime
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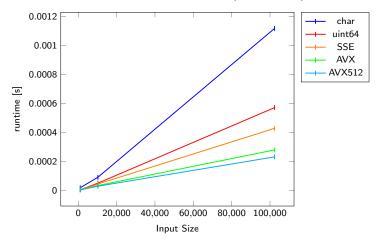




- Ref.Problem: Scalable Search
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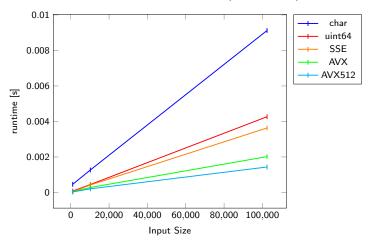


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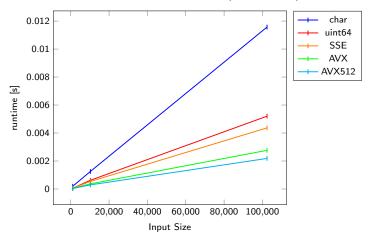
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- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



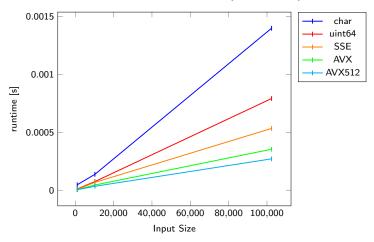


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 4 (OEC DUP)
- Metric: Input Size runtime
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- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



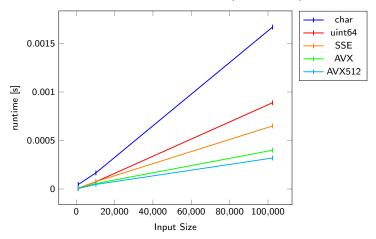


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 4 (OEC DUP)
- Metric: Input Size runtime
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- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

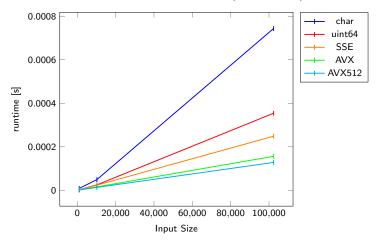


- Ref.Problem: Scalable Search
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- Switches: Preprocessing: 1, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



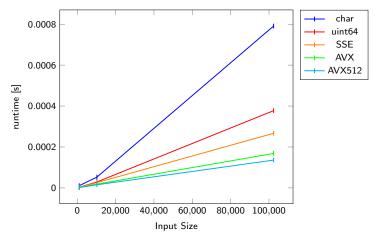


- Ref.Problem: Scalable Search
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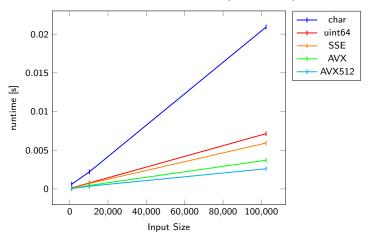


- Ref.Problem: Scalable Search
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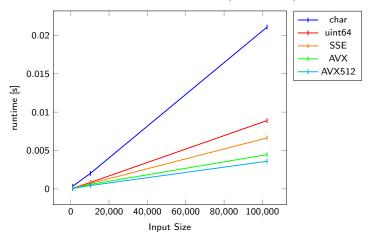




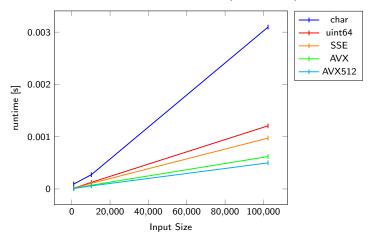
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 4 (OEC DUP)
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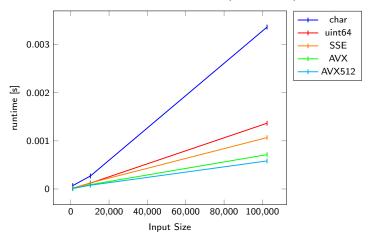
- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 5 (OEC REP)
- Metric: Input Size runtime
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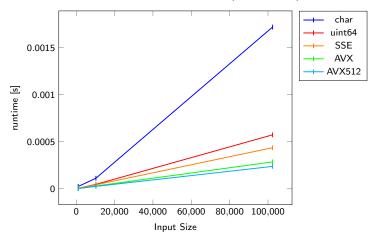
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- Library: MP-Slice Protocol -s 5 (OEC REP)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
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- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 5 (OEC REP)
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- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

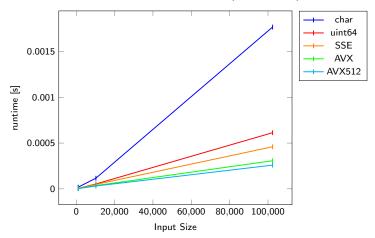


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 5 (OEC REP)
- Metric: Input Size runtime
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- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

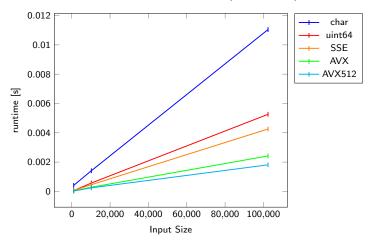


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- Metric: Input Size runtime
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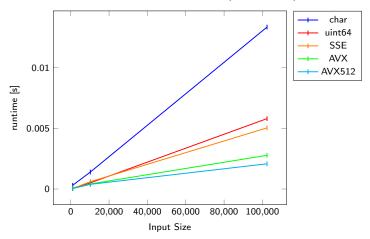


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 5 (OEC REP)
- Metric: Input Size runtime
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- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

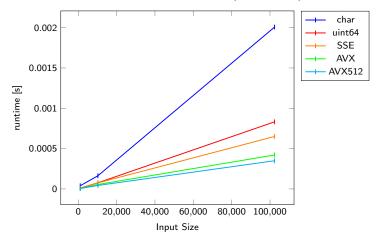


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 5 (OEC REP)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
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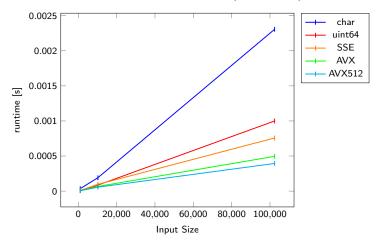


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 5 (OEC REP)
- Metric: Input Size runtime
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- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



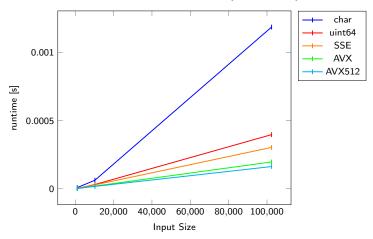
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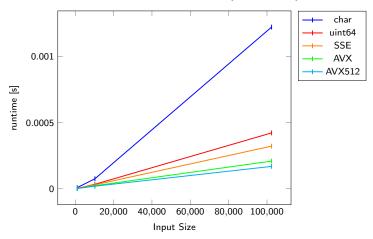
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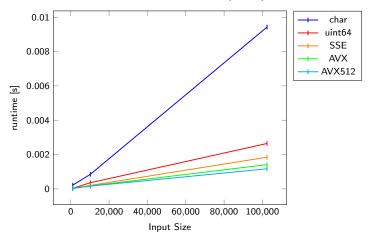
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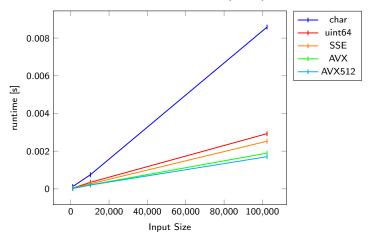


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- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

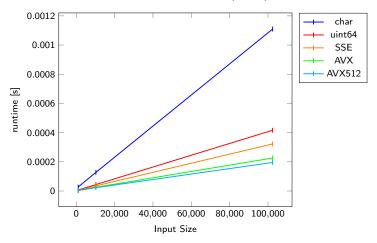




- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 6 (TTP)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

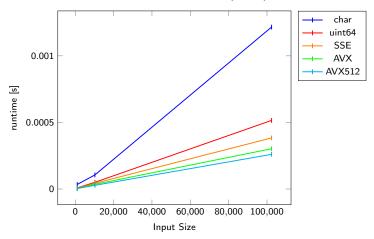


- Ref.Problem: Scalable Search
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- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
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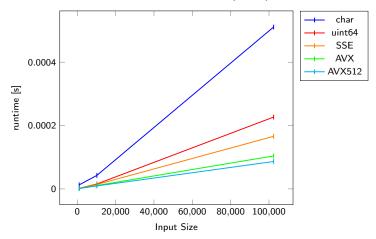


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 6 (TTP)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
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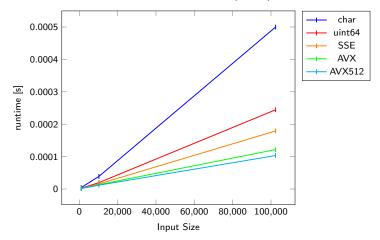




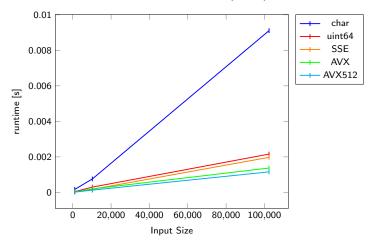
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- Library: MP-Slice Protocol -s 6 (TTP)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 6 (TTP)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

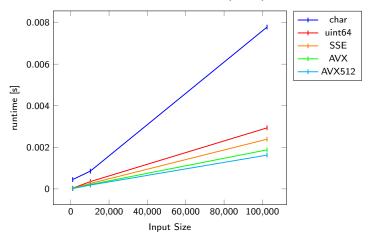


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 6 (TTP)
- Metric: Input Size runtime
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- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



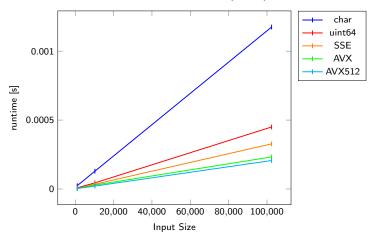
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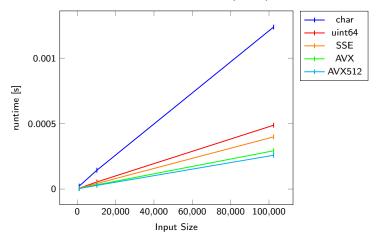
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- Metric: Input Size runtime
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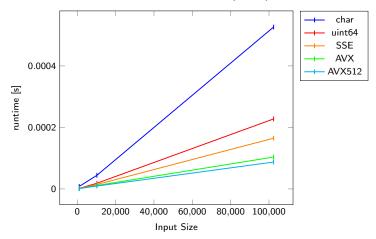


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 6 (TTP)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
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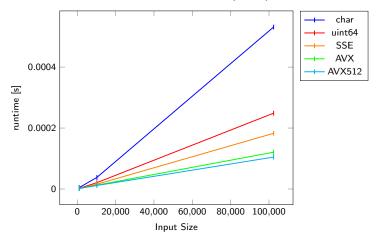


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 6 (TTP)
- Metric: Input Size runtime
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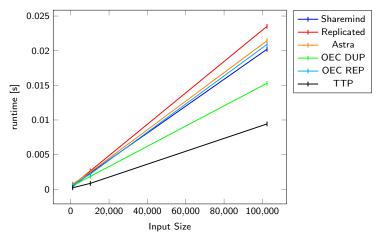


- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 6 (TTP)
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- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

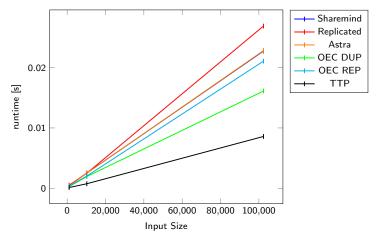




- Ref.Problem: Scalable Search
- Library: MP-Slice Protocol -s 6 (TTP)
- Metric: Input Size runtime
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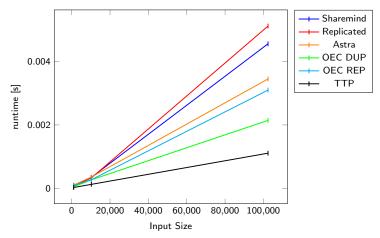


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d8 (char)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



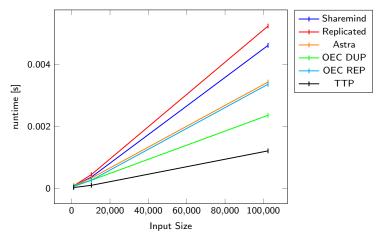
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- Library: MP-Slice Datatype -d d8 (char)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



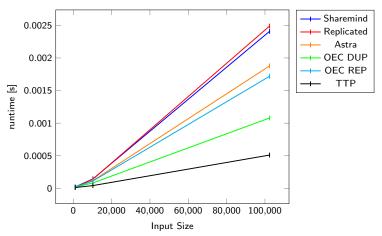


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d8 (char)
- Metric: Input Size runtime
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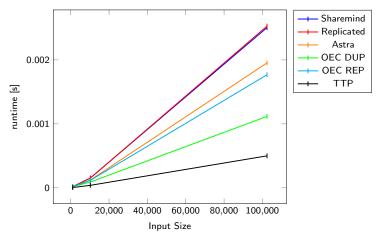




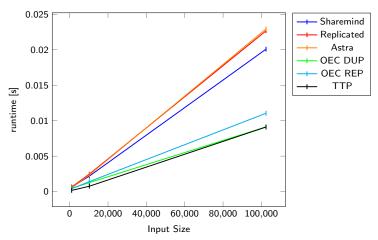
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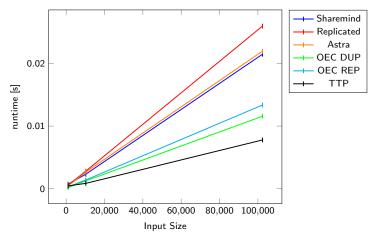
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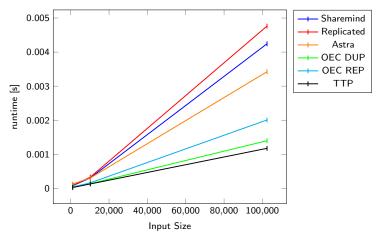


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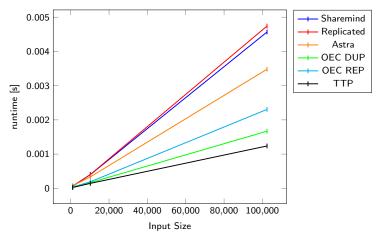


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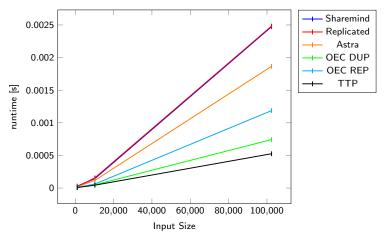




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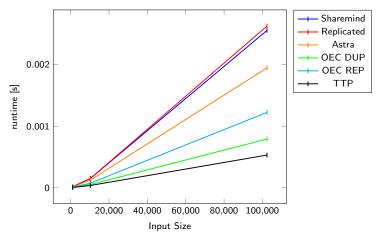


- Ref.Problem: Scalable Search
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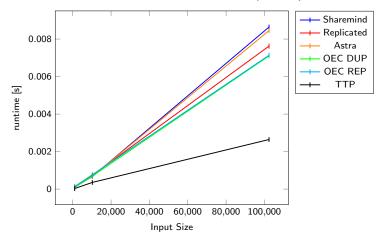
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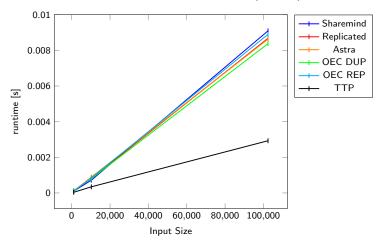
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- Library: MP-Slice Datatype -d d8 (char)
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MP-Slice Runtimes Input Size Datatype -d d64 (uint64)



- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d64 (uint64)
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- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

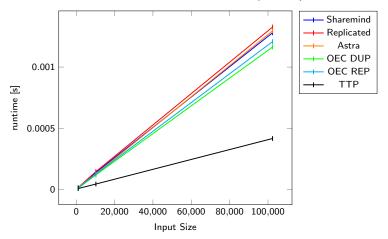
MP-Slice Runtimes Input Size Datatype -d d64 (uint64)



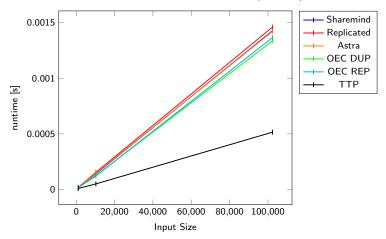
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- Metric: Input Size runtime
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MP-Slice Runtimes Input Size Datatype -d d64 (uint64)

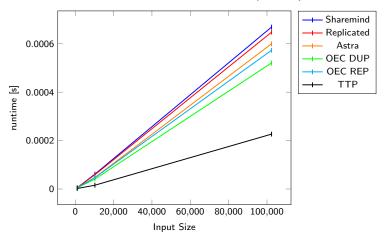


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d64 (uint64)
- Metric: Input Size runtime
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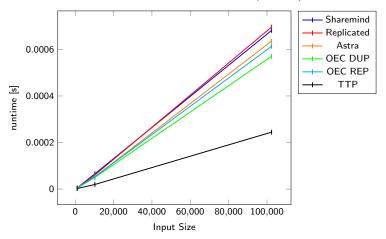
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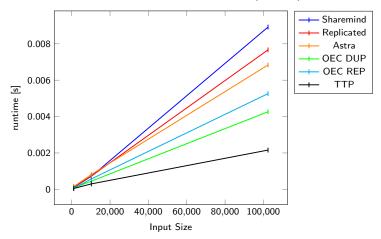


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d64 (uint64)
- Metric: Input Size runtime
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- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

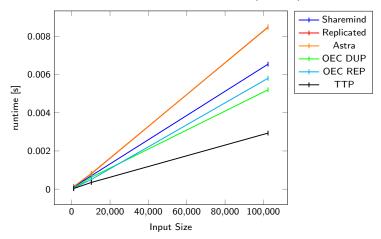




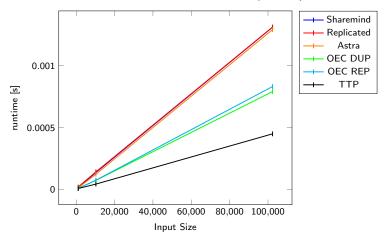
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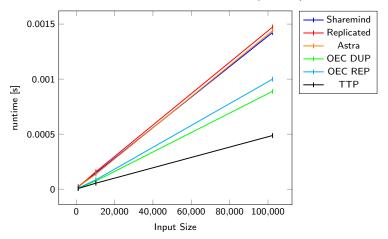
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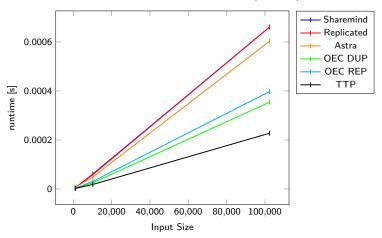
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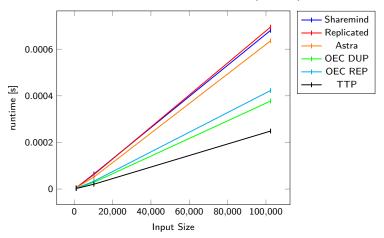
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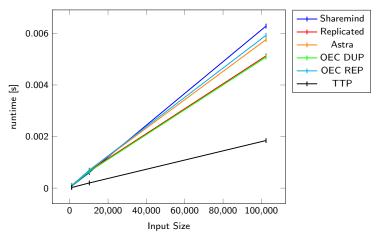
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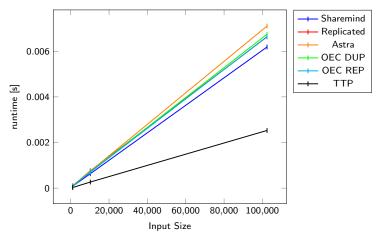
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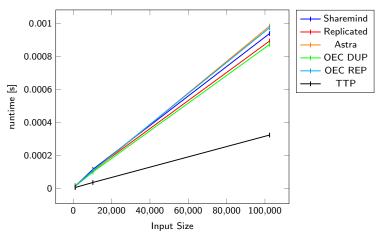


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d128 (SSE)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
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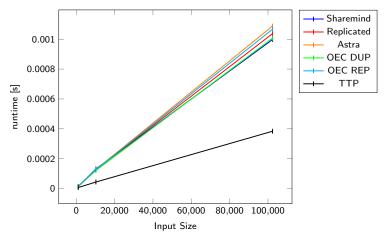


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d128 (SSE)
- Metric: Input Size runtime
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- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



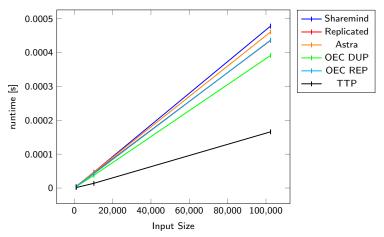


- Ref.Problem: Scalable Search
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- Metric: Input Size runtime
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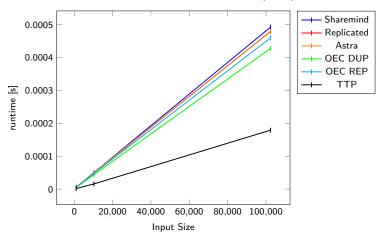
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- Metric: Input Size runtime
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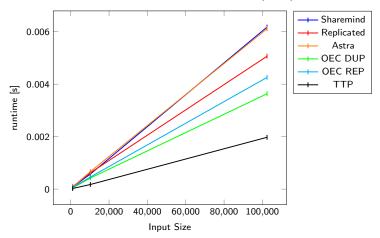
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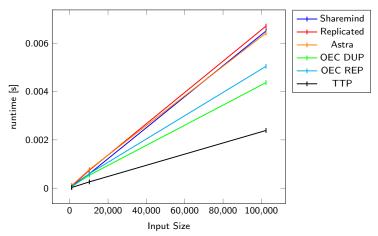


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d128 (SSE)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
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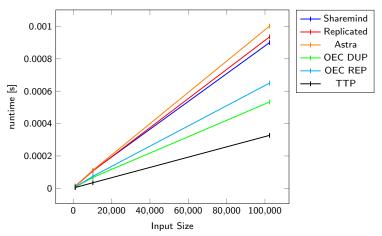


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d128 (SSE)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

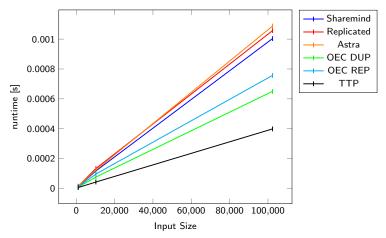


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d128 (SSE)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



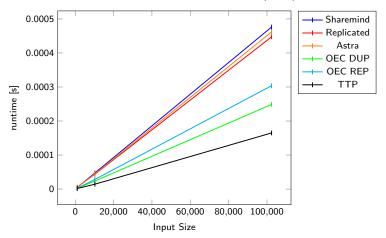


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d128 (SSE)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

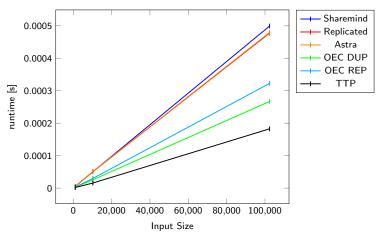


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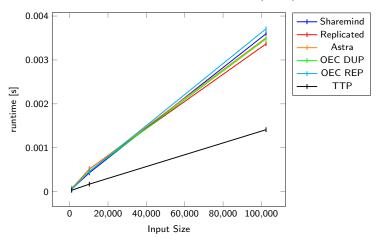




- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d128 (SSE)
- Metric: Input Size runtime
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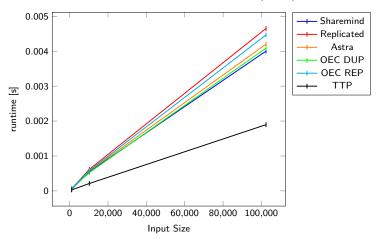


- Ref.Problem: Scalable Search
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- Metric: Input Size runtime
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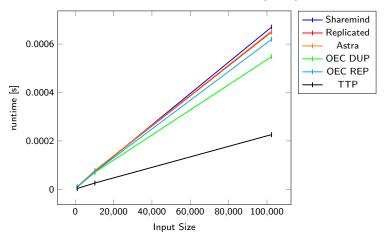
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- Library: MP-Slice Datatype -d d256 (AVX)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



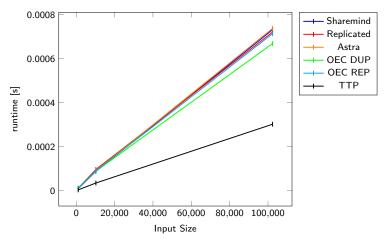


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d256 (AVX)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



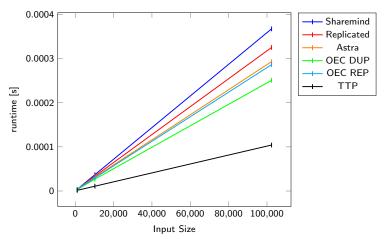


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d256 (AVX)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



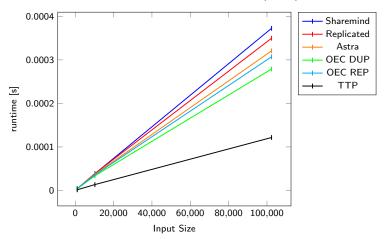
- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d256 (AVX)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





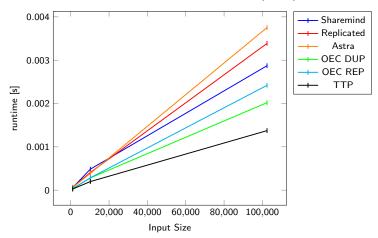
- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d256 (AVX)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





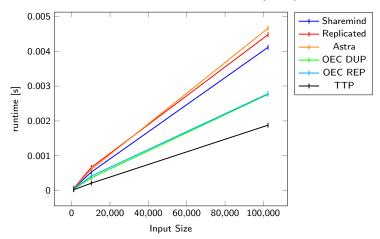
- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d256 (AVX)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits





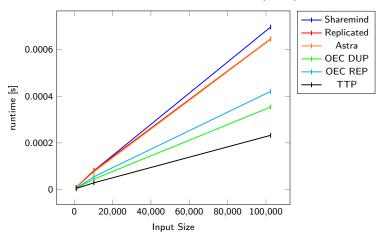
- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d256 (AVX)
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- Switches: Preprocessing: 1, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
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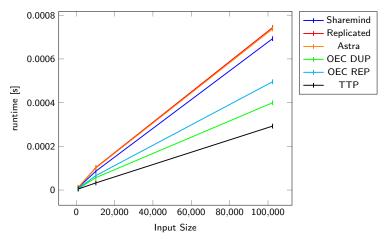


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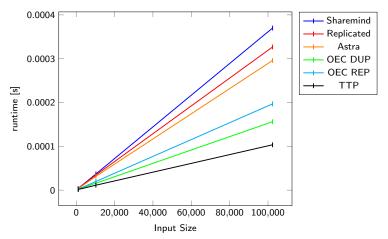


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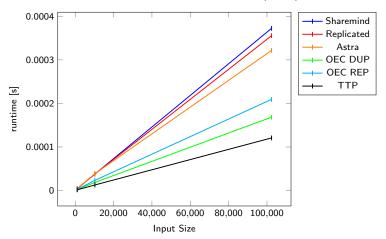


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d256 (AVX)
- Metric: Input Size runtime
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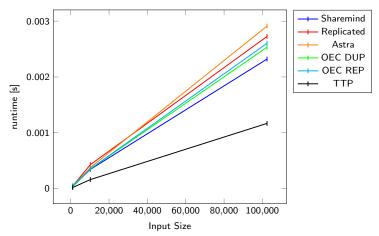


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d256 (AVX)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
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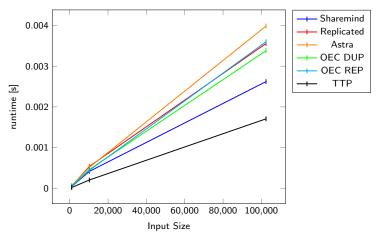
- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d256 (AVX)
- Metric: Input Size runtime
- Switches: Preprocessing: 1, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
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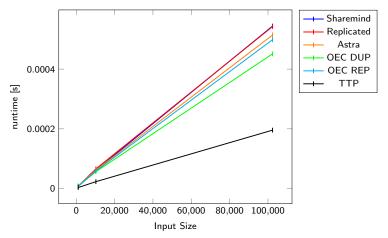


- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d512 (AVX512)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits

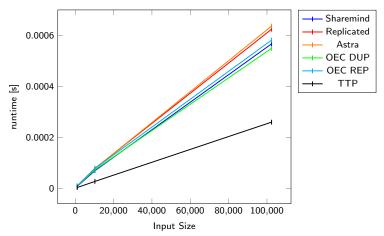




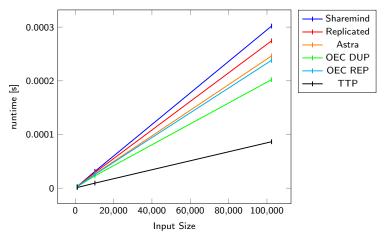
- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d512 (AVX512)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 1
- Specs: idex Intel 6312U(2.4GHz) 512GiB 25Gbits



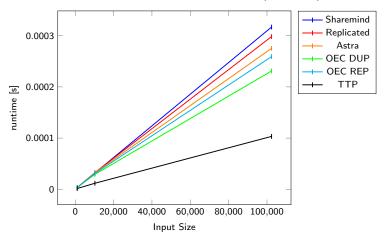
- Ref.Problem: Scalable Search
- Library: MP-Slice Datatype -d d512 (AVX512)
- Metric: Input Size runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0
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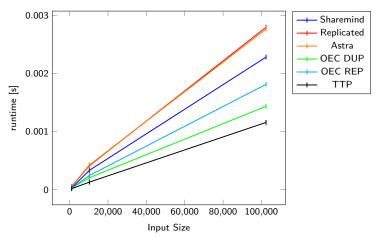


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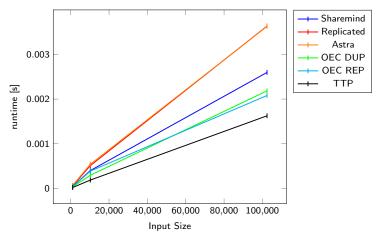


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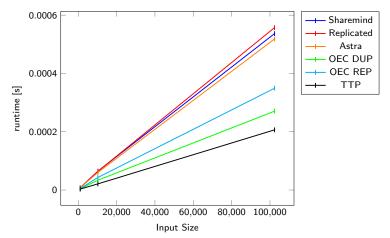




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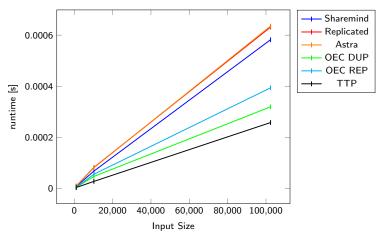


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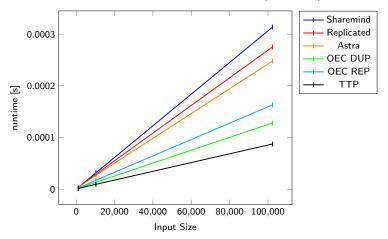


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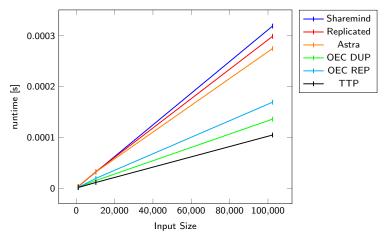




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