Sevarebench Measurement Results

MP-Slice Scalable Search

Various Measurements

April 3, 2023

Nodes : ether ethercash ethergold dogecoingold (Intel D-1518(2.2GHz) 32GiB 1Gbits)
Function: 0
Protocols: 1 2 ... 6
Datatypes : 128
Inputs : 40960
Preprocessing: 0
SplitRoles: 0 1 2
Pack Bool: 0
Optimized Sharing: 1
SSL: 0
Threads: 1 2 ... 12
txBuffer: 0
rxBuffer: 0
Summary file : resultsMP-Slice/2023-04/03_13-59-21/Eslice-run-summary.dat
Total Experiment runtime : 0h36min46sec
Experiment run status: incomplete
Latex built date: 23.04.03 14:53

Experiment Networking Information

Speedtest Info

measured speed between nodes 1 and 2

Threads: 1

total sender speed: .94 Gbits/sec

total receiver speed: .94 Gbits/sec

Threads: 10

total sender speed: .95 Gbits/sec

total receiver speed: .91 Gbits/sec

measured speed between nodes 1 and 3

Threads: 1

total sender speed: .94 Gbits/sec

total receiver speed: .94 Gbits/sec

Threads: 10

total sender speed: .95 Gbits/sec

total receiver speed: .92 Gbits/sec

measured speed between nodes 2 and 3

Threads: 1

total sender speed: .94 Gbits/sec

total receiver speed: .94 Gbits/sec

Threads: 10

total sender speed: .95 Gbits/sec

total receiver speed: .95 Gbits/sec

measured speed between nodes 1 and 4

Threads: 1

total sender speed: .94 Gbits/sec

total receiver speed: .94 Gbits/sec

Threads: 10

total sender speed: .96 Gbits/sec

total receiver speed: .96 Gbits/sec

measured speed between nodes 2 and 4

Threads: 1

total sender speed: .94 Gbits/sec

total receiver speed: .94 Gbits/sec

Threads: 10

total sender speed: .96 Gbits/sec

total receiver speed: .96 Gbits/sec
measured speed between nodes 3 and 4
Threads: 1
total sender speed: .94 Gbits/sec
total receiver speed: .94 Gbits/sec
Threads: 10
total sender speed: .93 Gbits/sec
total receiver speed: .91 Gbits/sec

Latency Info

Node ether statistics

— 10.10.160.3 ping statistics —

rtt min/avg/max/mdev = 0.194/499.032/997.870/498.838 ms, pipe 4

— 10.10.160.4 ping statistics —

rtt min/avg/max/mdev = 0.201/0.216/0.231/0.010 ms

— 10.10.160.5 ping statistics —

rtt min/avg/max/mdev = 0.180/0.202/0.224/0.016 ms

Node ethercash statistics

— 10.10.160.2 ping statistics —

rtt min/avg/max/mdev = 0.195/0.313/0.431/0.118 ms, pipe 4

— 10.10.160.4 ping statistics —

rtt min/avg/max/mdev = 0.228/0.263/0.382/0.059 ms

— 10.10.160.5 ping statistics —

rtt min/avg/max/mdev = 0.147/0.179/0.224/0.025 ms

Node ethergold statistics

— 10.10.160.2 ping statistics —

rtt min/avg/max/mdev = 0.210/613.614/2042.455/817.168 ms, pipe 3

— 10.10.160.3 ping statistics —

rtt min/avg/max/mdev = 0.152/0.172/0.191/0.016 ms

— 10.10.160.5 ping statistics —

rtt min/avg/max/mdev = 0.215/0.248/0.364/0.058 ms

Node dogecoingold statistics

— 10.10.160.2 ping statistics —

rtt min/avg/max/mdev = 0.183/205.263/1025.373/410.054 ms, pipe 2

— 10.10.160.3 ping statistics —

rtt min/avg/max/mdev = 0.173/0.229/0.331/0.055 ms

— 10.10.160.4 ping statistics —

rtt min/avg/max/mdev = 0.184/0.227/0.240/0.021 ms
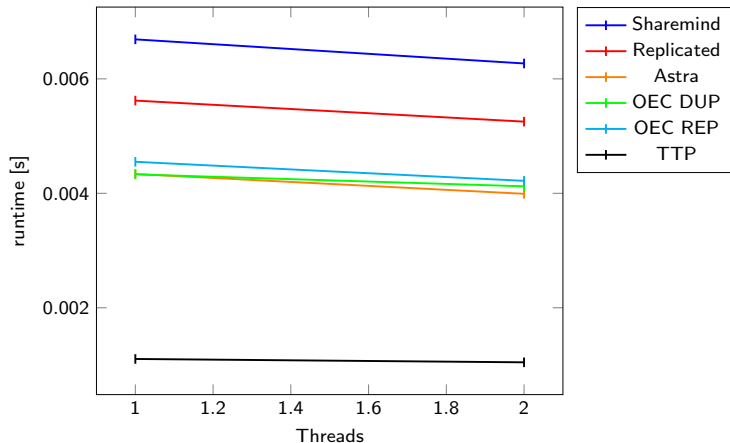
Outline I

Outline II

Input Size Protocol -s 6 (TTP) pre0split2pack0opt1ssl0fun0

MP-Slice Runtimes ThreadsFixed Input: 40960 -d d128 (SSE)

- – Ref.Problem: Scalable Search
- – Library: MP-Slice - Fixed Input: 40960 -d d128 (SSE)
- – Metric: Threads - runtime
- – Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- – Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

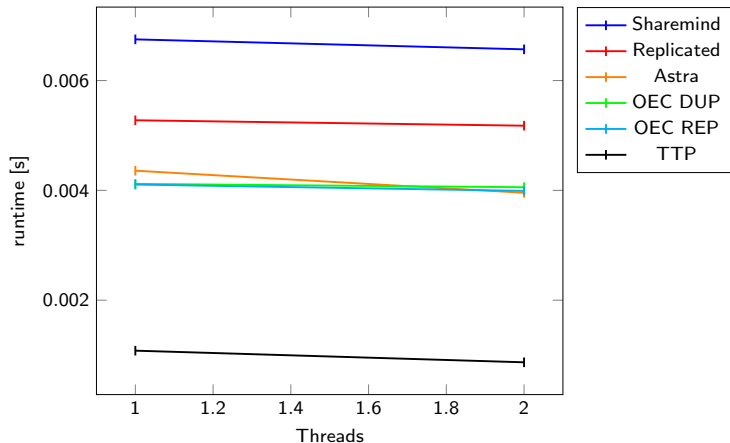# MP-Slice Runtimes ThreadsFixed Input: 40960 -d d128 (SSE)

- Ref.Problem: Scalable Search
- Library: MP-Slice - Fixed Input: 40960 -d d128 (SSE)
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- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

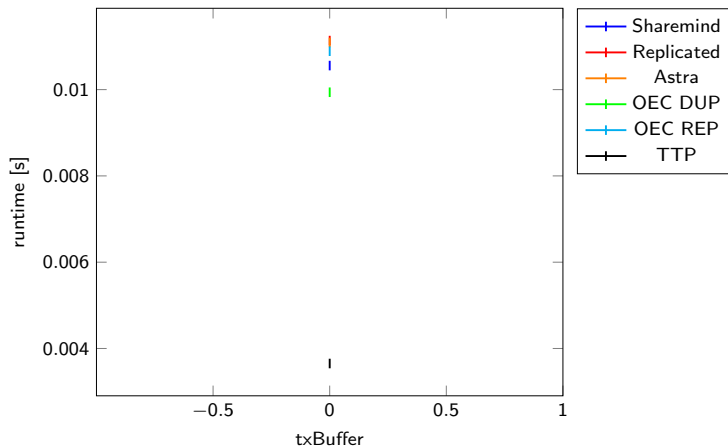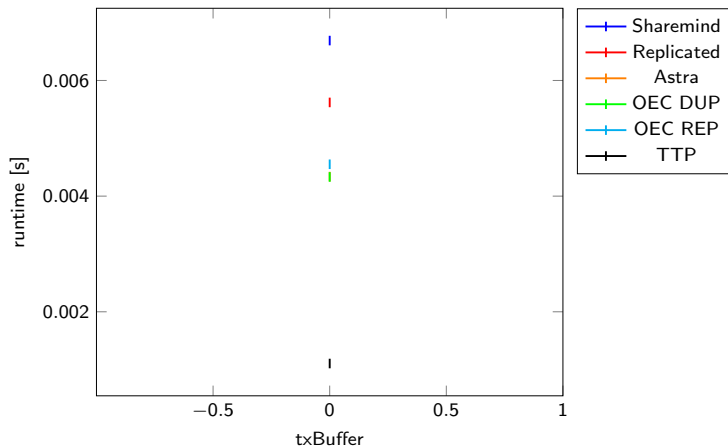# MP-Slice Runtimes ThreadsFixed Input: 40960 -d d128 (SSE)

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- Metric: Threads - runtime
- Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

MP-Slice Runtimes txBufferFixed Input: 40960 -d d128 (SSE)

- Ref.Problem: Scalable Search
- Library: MP-Slice - Fixed Input: 40960 -d d128 (SSE)
- Metric: txBuffer - runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

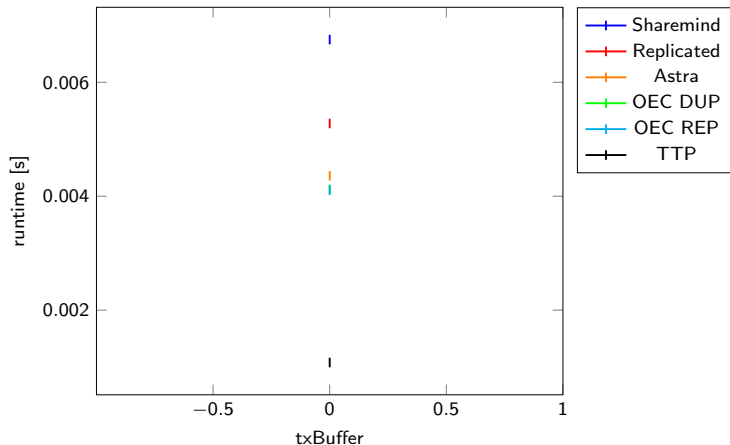# MP-Slice Runtimes txBufferFixed Input: 40960 -d d128 (SSE)

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MP-Slice Runtimes txBufferFixed Input: 40960 -d d128 (SSE)

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- – Library: MP-Slice - Fixed Input: 40960 -d d128 (SSE)
- – Metric: txBuffer - runtime
- – Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- – Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

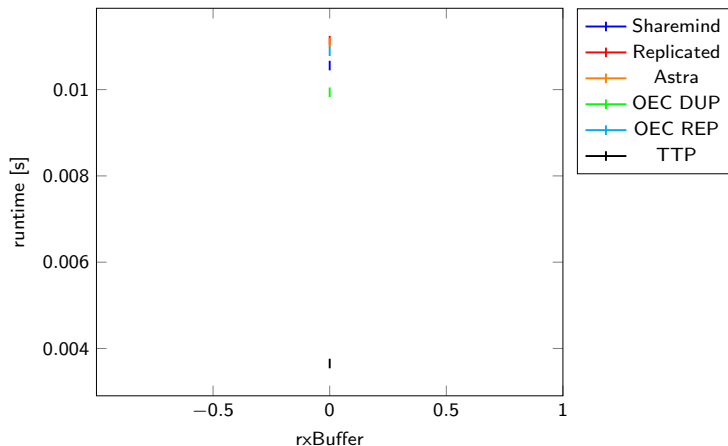# MP-Slice Runtimes rxBufferFixed Input: 40960 -d d128 (SSE)

- – Ref.Problem: Scalable Search
- – Library: MP-Slice - Fixed Input: 40960 -d d128 (SSE)
- – Metric: rxBuffer - runtime
- – Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- – Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

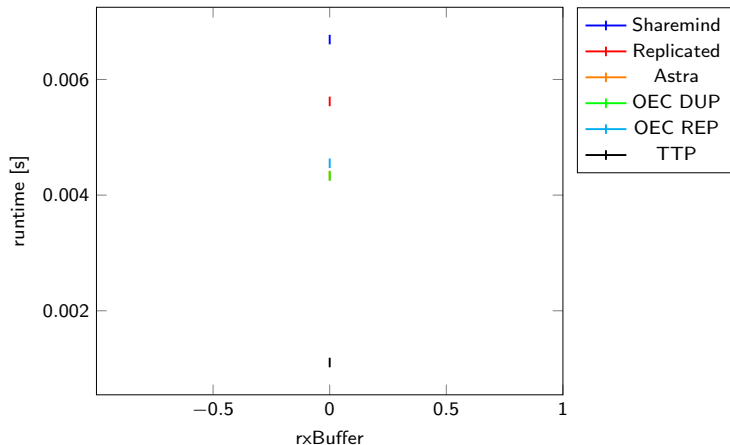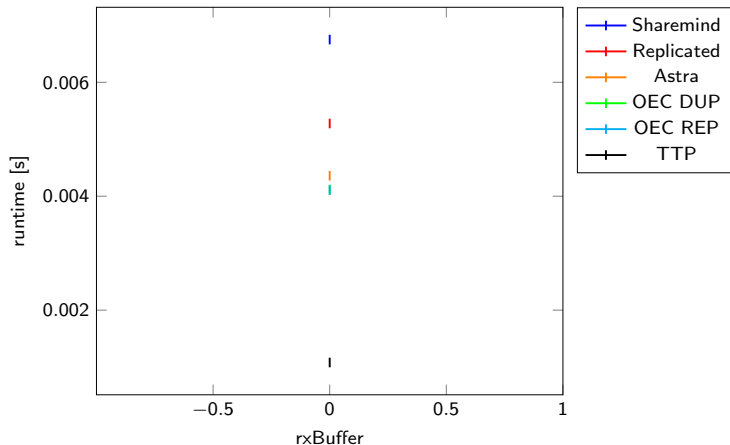# MP-Slice Runtimes rxBufferFixed Input: 40960 -d d128 (SSE)

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- Metric: rxBuffer - runtime

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

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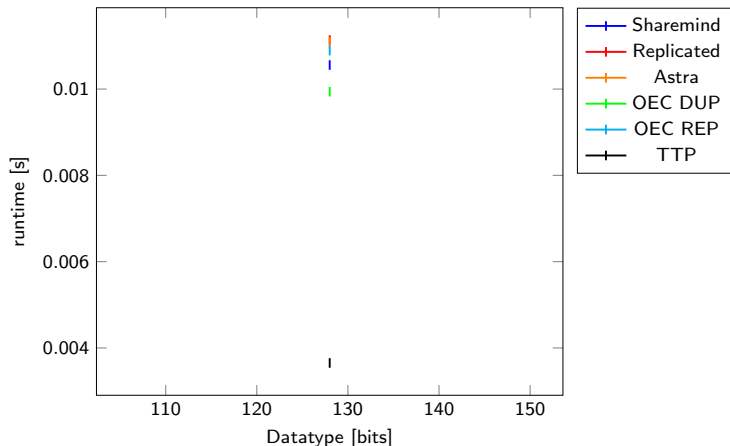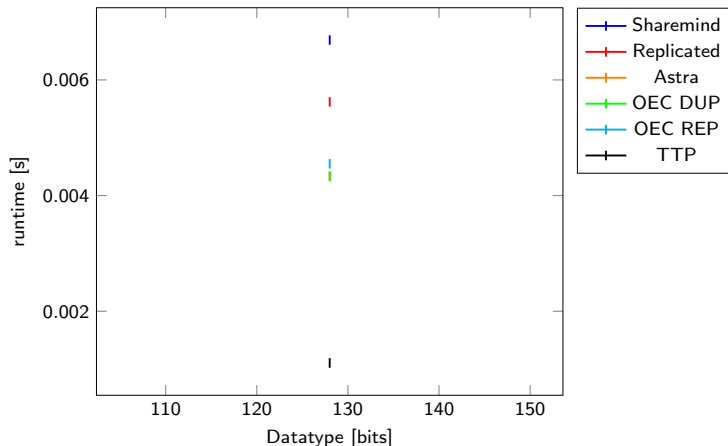MP-Slice Runtimes rxBufferFixed Input: 40960 -d d128 (SSE)

– Ref.Problem: Scalable Search

– Library: MP-Slice - Fixed Input: 40960 -d d128 (SSE)

– Metric: rxBuffer - runtime

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

– Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

MP-Slice Runtimes Datatype Fixed Input: 40960 all (all)

- Ref.Problem: Scalable Search
- Library: MP-Slice - Fixed Input: 40960 all (all)
- Metric: Datatype - runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

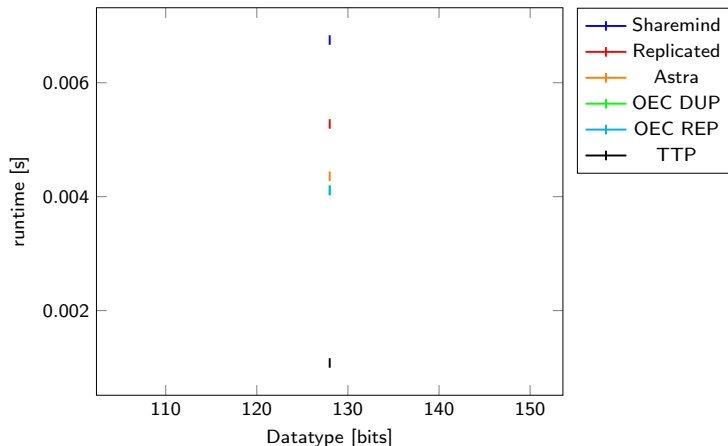# MP-Slice Runtimes Datatype Fixed Input: 40960 all (all)

- Ref.Problem: Scalable Search
- Library: MP-Slice - Fixed Input: 40960 all (all)
- Metric: Datatype - runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

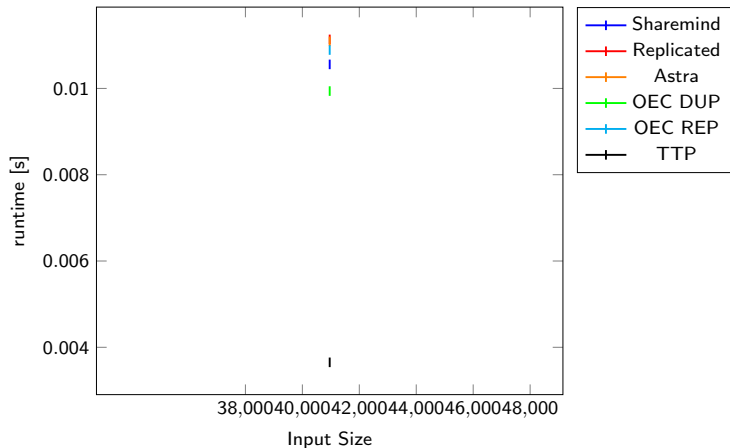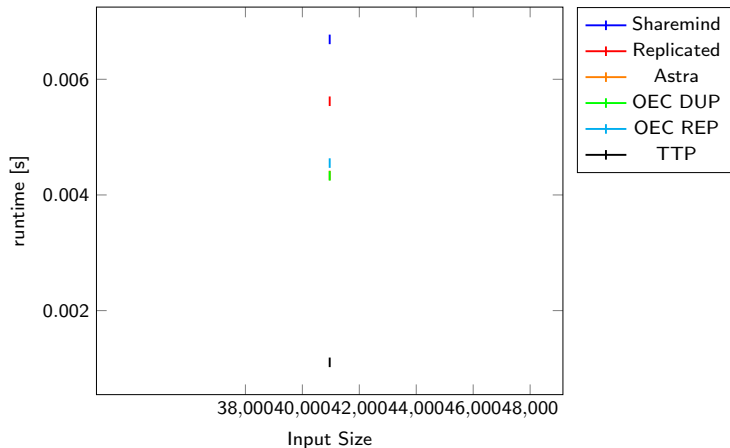# MP-Slice Runtimes Datatype Fixed Input: 40960 all (all)

- Ref.Problem: Scalable Search

- Library: MP-Slice - Fixed Input: 40960 all (all)

- Metric: Datatype - runtime

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

- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

MP-Slice Runtimes Input Size Datatype -d d128 (SSE)

- – 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, Function: 0
- – Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

MP-Slice Runtimes Input Size Datatype -d d128 (SSE)

- – Ref.Problem: Scalable Search
- – Library: MP-Slice - Datatype -d d128 (SSE)
- – Metric: Input Size - runtime
- – Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- – Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits
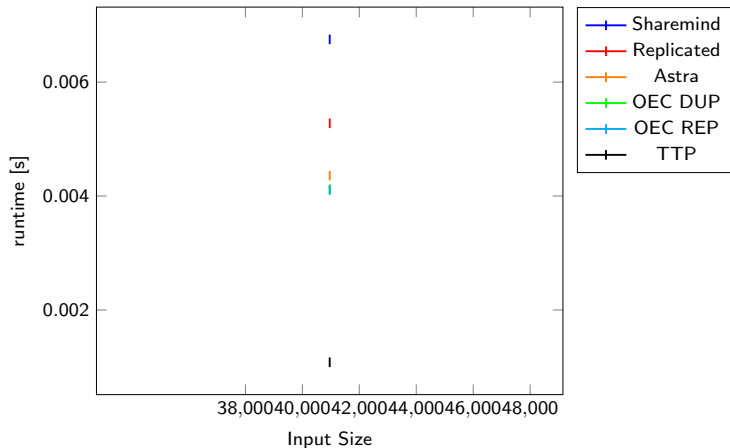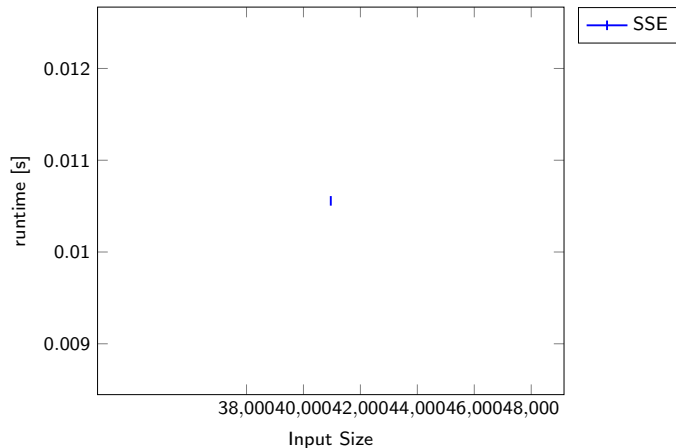
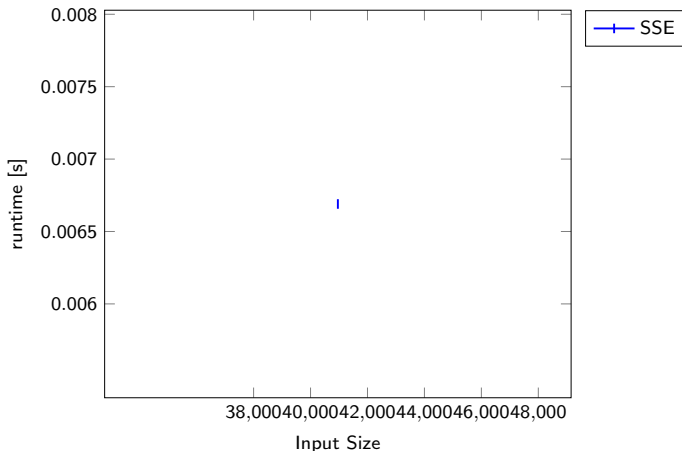# MP-Slice Runtimes Input Size Datatype -d d128 (SSE)

- – 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: 0, Function: 0
- – Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

MP-Slice Runtimes Input Size Protocol -s 1 (Sharemind)

- 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, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

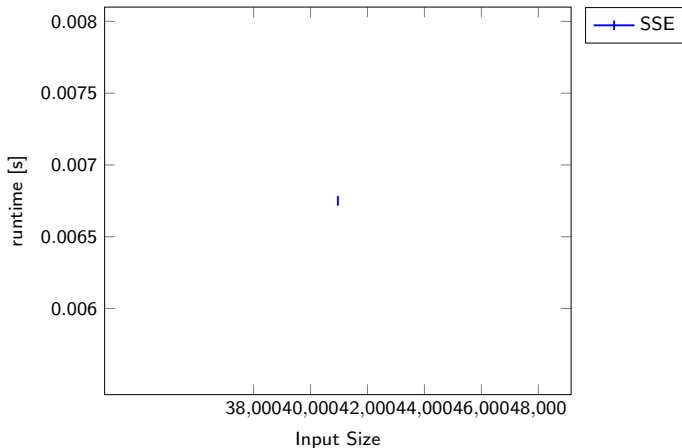# MP-Slice Runtimes Input Size Protocol -s 1 (Sharemind)

- — 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, Function: 0
- — Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

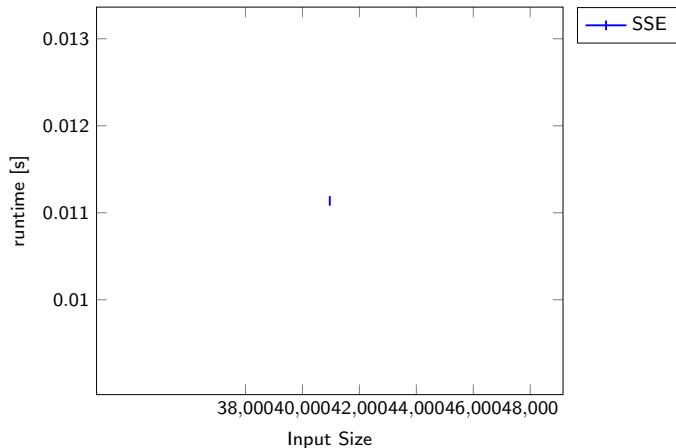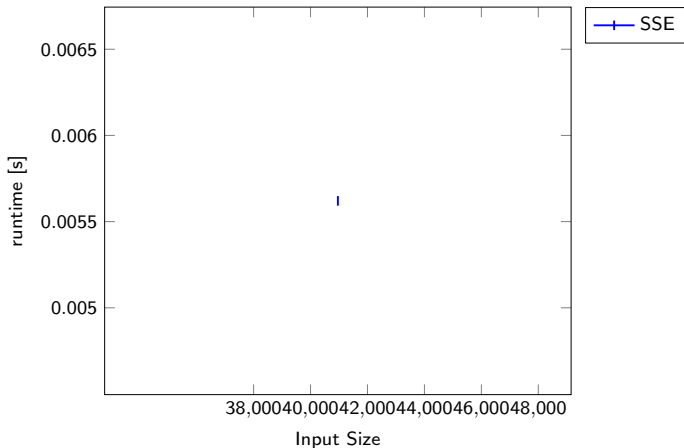# MP-Slice Runtimes Input Size Protocol -s 1 (Sharemind)

- 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, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

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, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

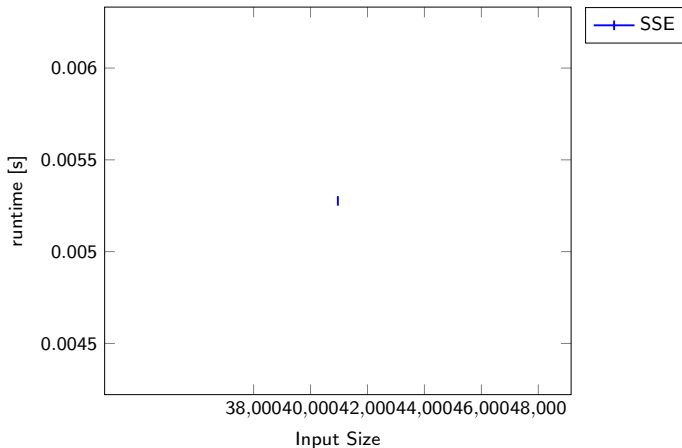# MP-Slice Runtimes Input Size Protocol -s 2 (Replicated)

- 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, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

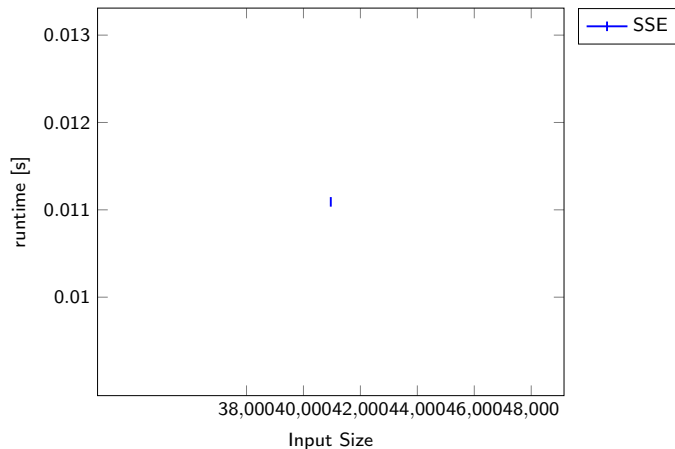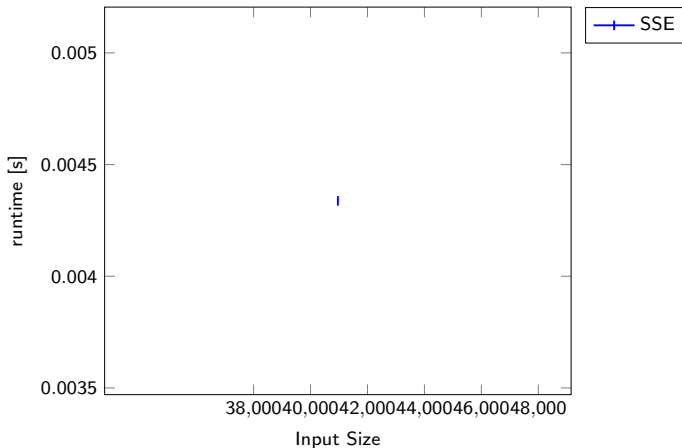# MP-Slice Runtimes Input Size Protocol -s 2 (Replicated)

- Ref.Problem: Scalable Search
- Library: MP-Slice - Protocol -s 2 (Replicated)
- Metric: Input Size - runtime
- Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

MP-Slice Runtimes Input Size Protocol -s 3 (Astra)

- 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, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

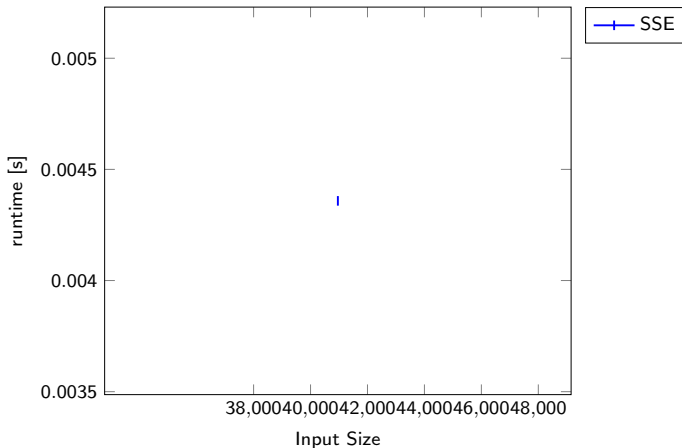## MP-Slice Runtimes Input Size Protocol -s 3 (Astra)

- 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: 0, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

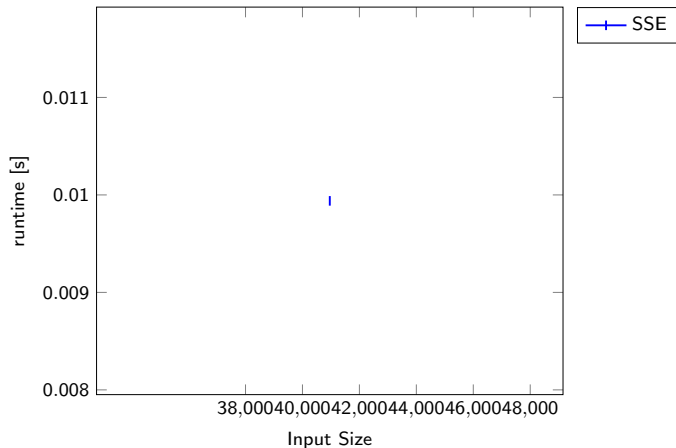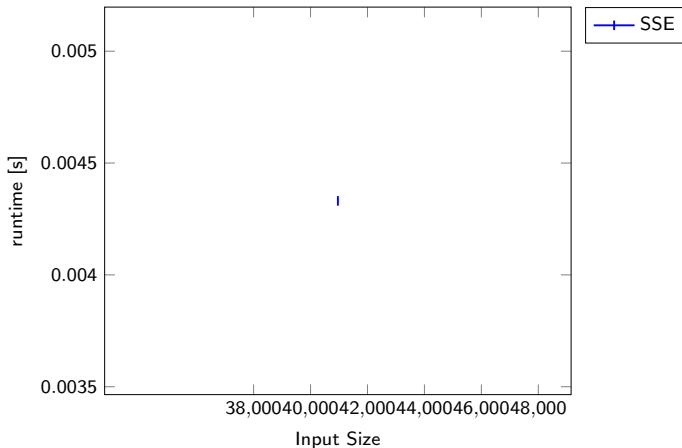# MP-Slice Runtimes Input Size Protocol -s 3 (Astra)

- 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, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

MP-Slice Runtimes Input Size Protocol -s 4 (OEC DUP)

- 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, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

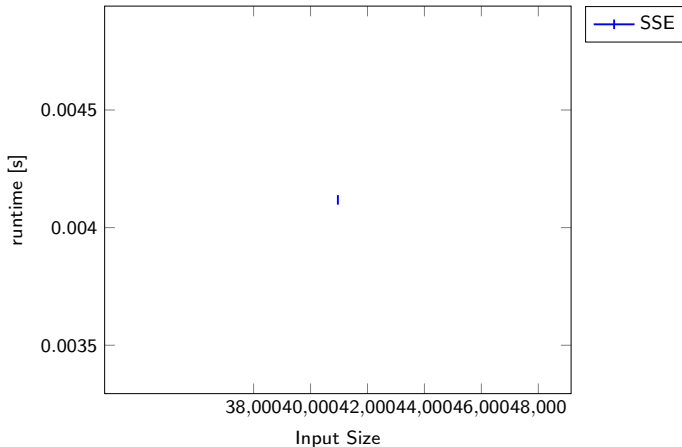# MP-Slice Runtimes Input Size Protocol -s 4 (OEC DUP)

- Ref.Problem: Scalable Search
- Library: MP-Slice - Protocol -s 4 (OEC DUP)
- Metric: Input Size - runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

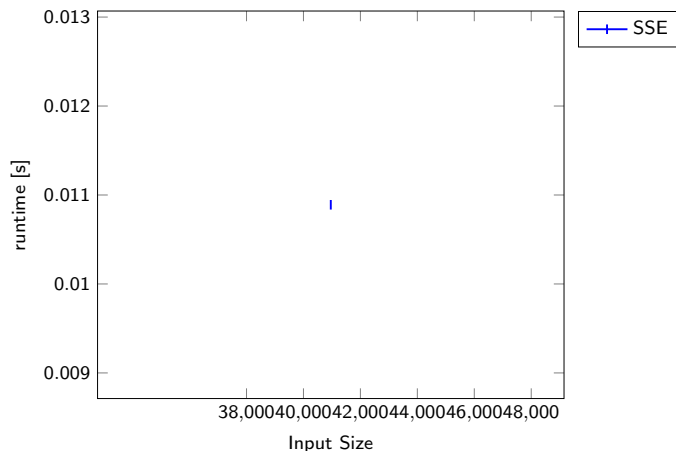# MP-Slice Runtimes Input Size Protocol -s 4 (OEC DUP)

- Ref.Problem: Scalable Search
- Library: MP-Slice - Protocol -s 4 (OEC DUP)
- Metric: Input Size - runtime
- Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

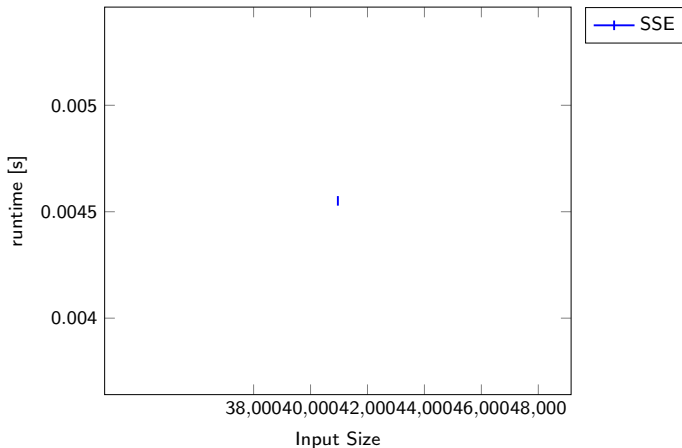# MP-Slice Runtimes Input Size Protocol -s 5 (OEC REP)

- Ref.Problem: Scalable Search
- 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: 0, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

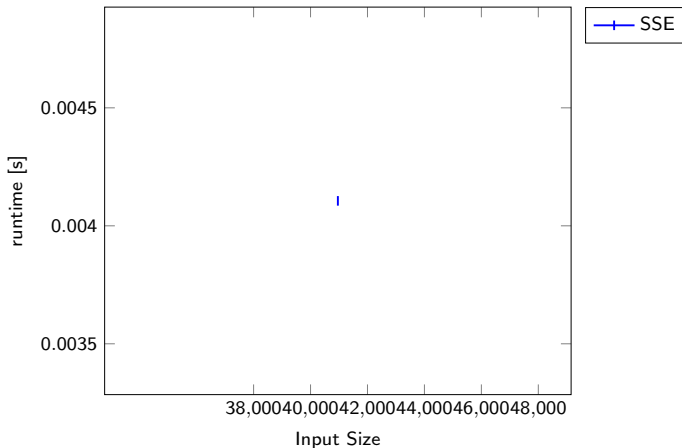# MP-Slice Runtimes Input Size Protocol -s 5 (OEC REP)

- Ref.Problem: Scalable Search
- Library: MP-Slice - Protocol -s 5 (OEC REP)
- Metric: Input Size - runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

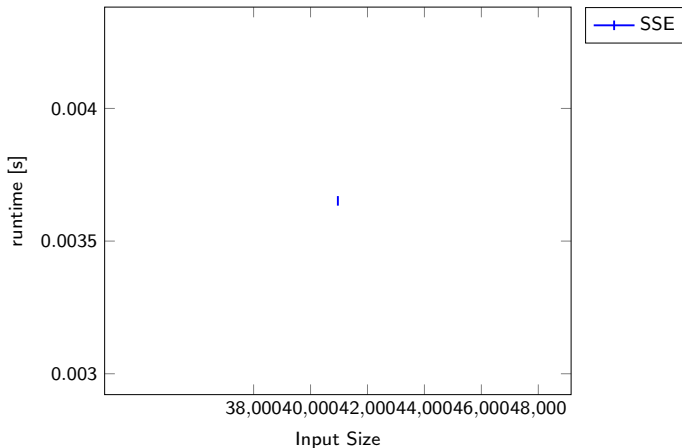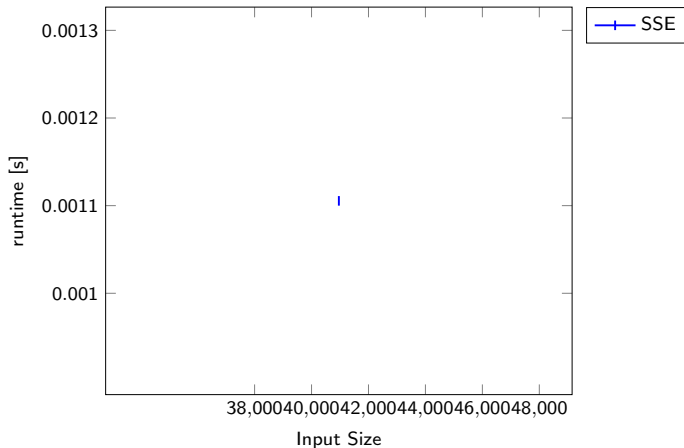# MP-Slice Runtimes Input Size Protocol -s 5 (OEC REP)

- Ref.Problem: Scalable Search
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- Metric: Input Size - runtime
- Switches: Preprocessing: 0, Split Roles: 2, Pack Bool: 0, Optimize Sharing: 1, SSL: 0, Function: 0
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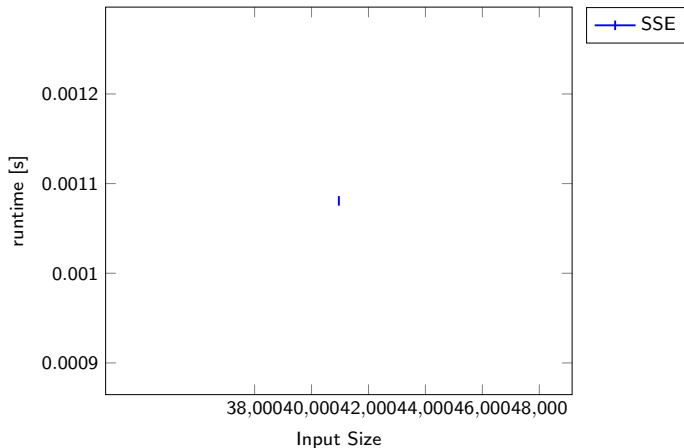# MP-Slice Runtimes Input Size Protocol -s 6 (TTP)

- 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, Function: 0
- Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

MP-Slice Runtimes Input Size Protocol -s 6 (TTP)

- – 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, Function: 0
- – Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits

MP-Slice Runtimes Input Size Protocol -s 6 (TTP)

- — 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, Function: 0
- — Specs: ether Intel D-1518(2.2GHz) 32GiB 1Gbits