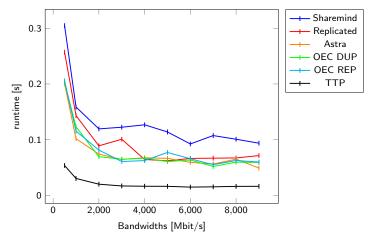
Sevarebench Measurement Results

MP-Slice Scalable Search

Various Measurements

January 29, 2023

MP-Slice Runtimes Bandwidths Fixed Input: 8192 -d d256 (AVX)



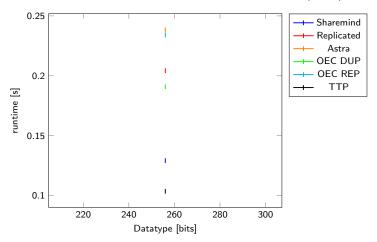
Ref.Problem: Scalable Search

Library: MP-Slice - Fixed Input: 8192 -d d256 (AVX)

- Metric: Bandwidths - runtime

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

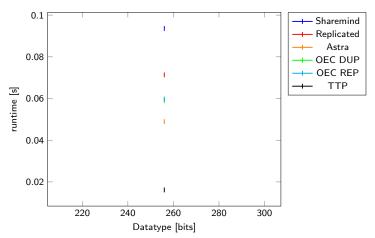
MP-Slice Runtimes Datatype Fixed Input: 8192 -d d256 (AVX)



- Ref.Problem: Scalable Search
- Library: MP-Slice Fixed Input: 8192 -d d256 (AVX)
- Metric: Datatype runtime
- Switches: Preprocessing: 0, Split Roles: 0, Pack Bool: 0, Optimize Sharing: 1
- Specs: D-1518(2.2GHz) 32GiB 1Gbits

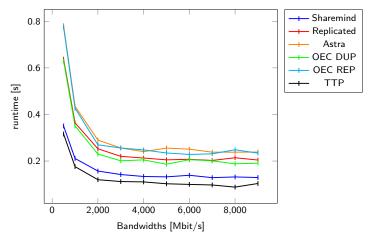


MP-Slice Runtimes Datatype Fixed Input: 8192 -d d256 (AVX)



- Ref.Problem: Scalable Search
- Library: MP-Slice Fixed Input: 8192 -d d256 (AVX)
- Metric: Datatype runtime
- Switches: Preprocessing: 0, Split Roles: 1, Pack Bool: 0, Optimize Sharing: 1
- Specs: D-1518(2.2GHz) 32GiB 1Gbits

MP-Slice Runtimes Bandwidths Fixed Input: 8192 -d d256 (AVX)



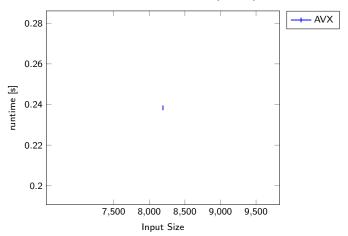
- Ref.Problem: Scalable Search

Library: MP-Slice - Fixed Input: 8192 -d d256 (AVX)

- Metric: Bandwidths - runtime

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

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



Ref.Problem: Scalable Search

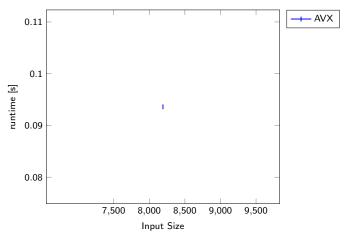
- Library: MP-Slice - Protocol -s 3 (Astra)

- Metric: Input Size - runtime

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



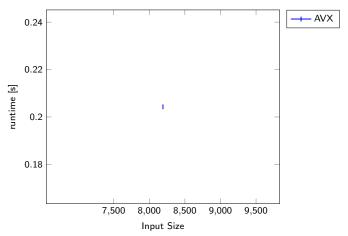
MP-Slice Runtimes Input Size Protocol -s 1 (Sharemind)



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



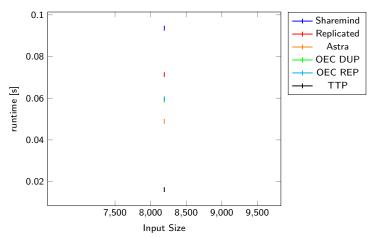
MP-Slice Runtimes Input Size Protocol -s 2 (Replicated)



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



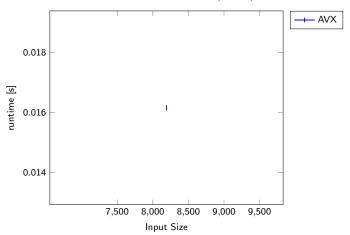
MP-Slice Runtimes Input Size Datatype -d d256 (AVX)



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



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



Ref.Problem: Scalable Search

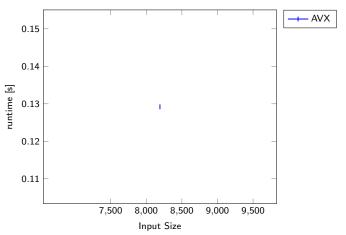
- Library: MP-Slice - Protocol -s 6 (TTP)

- Metric: Input Size - runtime

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



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



Ref.Problem: Scalable Search

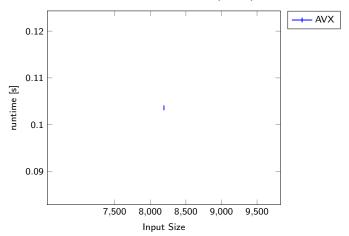
Library: MP-Slice - Protocol -s 1 (Sharemind)

- Metric: Input Size - runtime

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



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



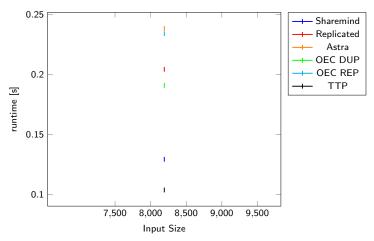
Ref.Problem: Scalable Search

Library: MP-Slice - Protocol -s 6 (TTP)

- Metric: Input Size - runtime

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

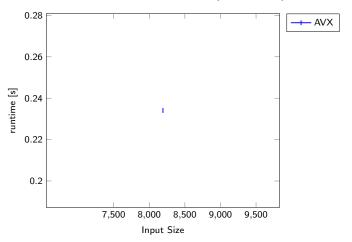
MP-Slice Runtimes Input Size Datatype -d d256 (AVX)



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



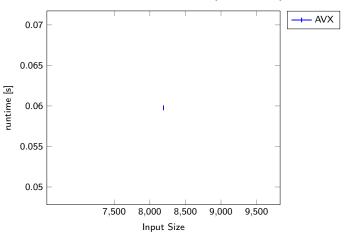
MP-Slice Runtimes Input Size Protocol -s 5 (OEC REP)



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



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



Ref.Problem: Scalable Search

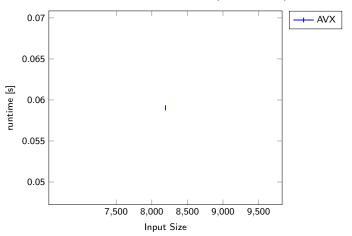
Library: MP-Slice - Protocol -s 5 (OEC REP)

- Metric: Input Size - runtime

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



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



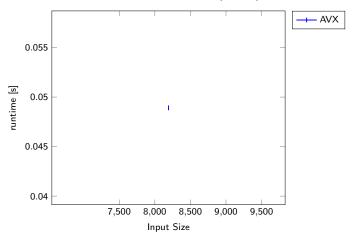
Ref.Problem: Scalable Search

Library: MP-Slice - Protocol -s 4 (OEC DUP)

- Metric: Input Size - runtime

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

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



Ref.Problem: Scalable Search

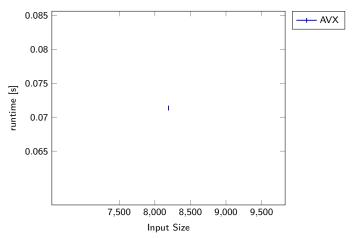
- Library: MP-Slice - Protocol -s 3 (Astra)

- Metric: Input Size - runtime

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



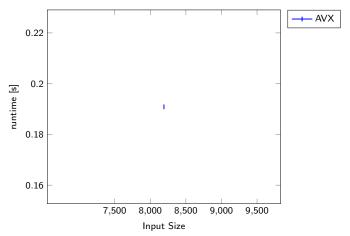
MP-Slice Runtimes Input Size Protocol -s 2 (Replicated)



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

