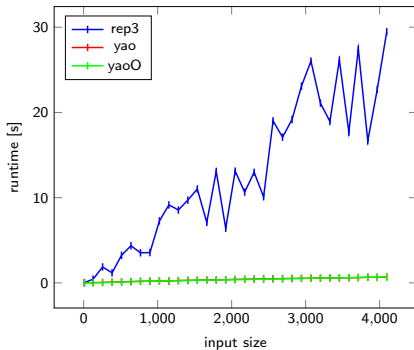


Sevarebench Measurement Results

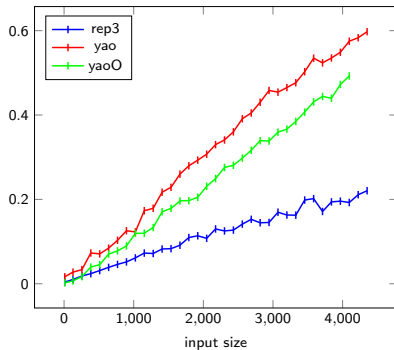
MP-SPDZ Replicated-Bin Scalable Search

December 9, 2022

RepSearch Internal Runtime

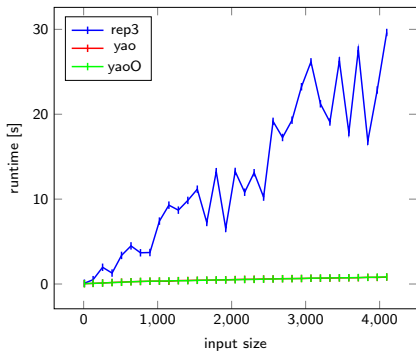


- Ref.Problem: Scalable Search v1
- Protocols: MP-SPDZ
- Metric: Input - Runtime
- Node: ether

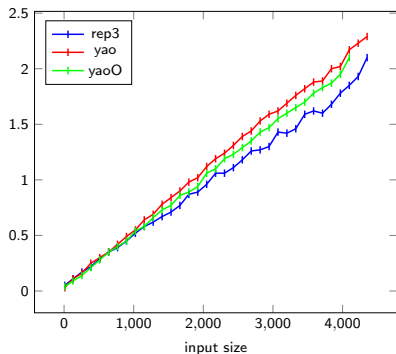


- Ref.Problem: Scalable Search v2
- Protocols: MP-SPDZ
- Metric: Input - Runtime
- Node: ether

RepSearch External Runtime

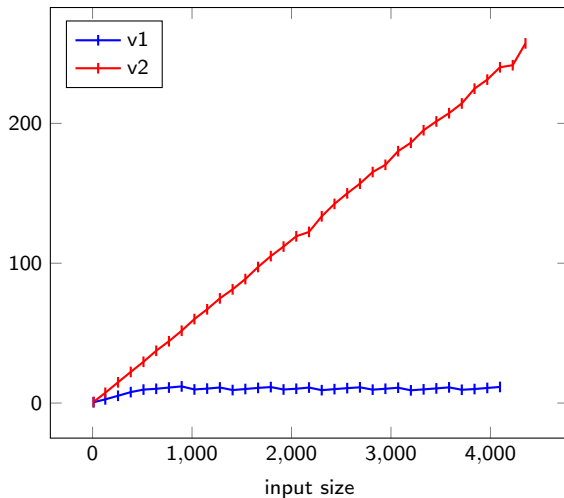


- Ref.Problem: Scalable Search v1
- Protocols: MP-SPDZ
- Metric: Input - Runtime
- Node: ether



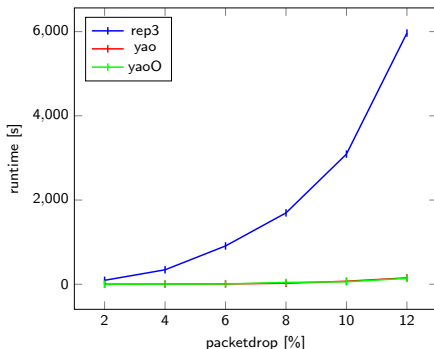
- Ref.Problem: Scalable Search v2
- Protocols: MP-SPDZ
- Metric: Input - Runtime
- Node: ether

RepSearch Compile Time

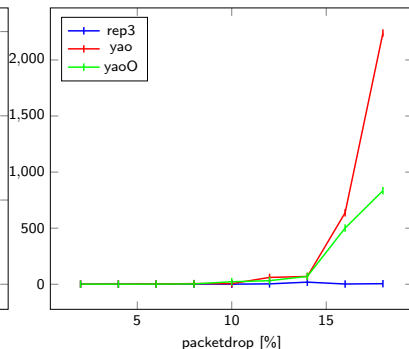


- Ref.Problem: Scalable Search
- Protocols: MP-SPDZ
- Metric: Compile time
- Node: ether

RepSearch Packetdrop at Input 4096

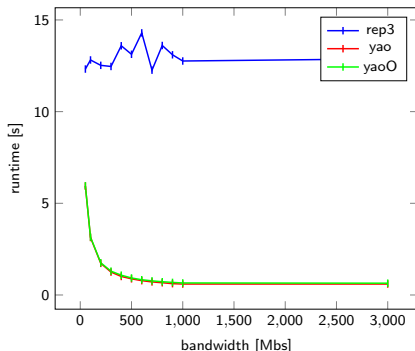


- Ref.Problem: Scalable Search v1
- Protocols: MP-SPDZ
- Metric: Packetdrops - Runtime at input 4096
- Node: ether

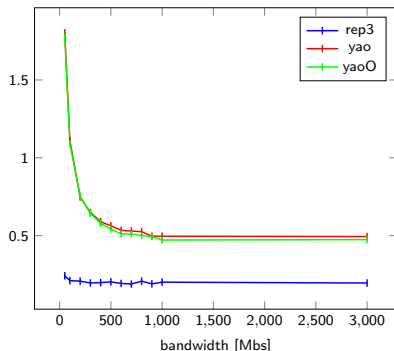


- Ref.Problem: Scalable Search v2
- Protocols: MP-SPDZ
- Metric: Packetdrops - Runtime at input 4096
- Node: ether

RepSearch Bandwidth at Input 4096

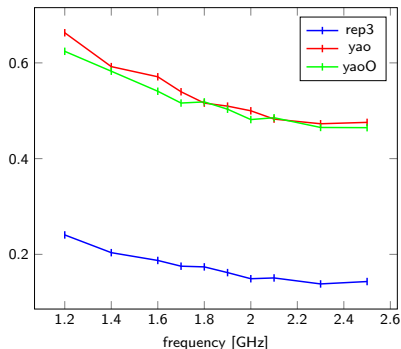
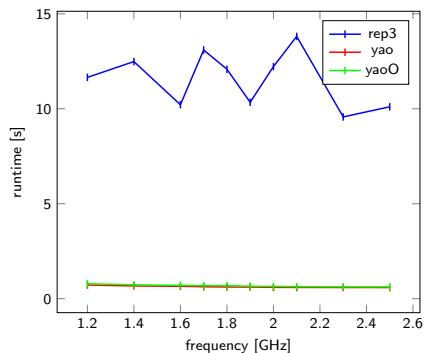


- Ref.Problem: Scalable Search v1
- Protocols: MP-SPDZ
- Metric: Bandwidth - Runtime at input 4096
- Node: ether



- Ref.Problem: Scalable Search v2
- Protocols: MP-SPDZ
- Metric: Bandwidth - Runtime at input 4096
- Node: ether

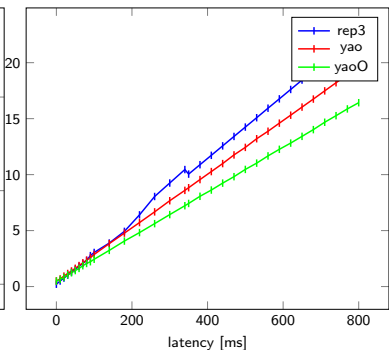
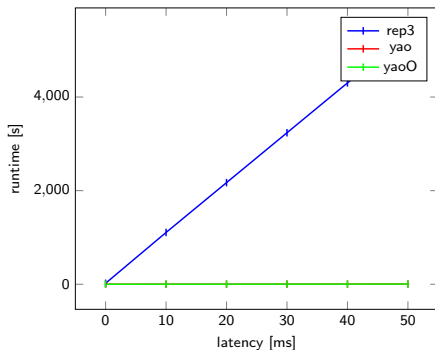
RepSearch Frequency at Input 4096



- Ref.Problem: Scalable Search v1
- Protocols: MP-SPDZ
- Metric: Frequency - Runtime at input 4096
- Node: ether

- Ref.Problem: Scalable Search v2
- Protocols: MP-SPDZ
- Metric: Frequency - Runtime at input 4096
- Node: ether

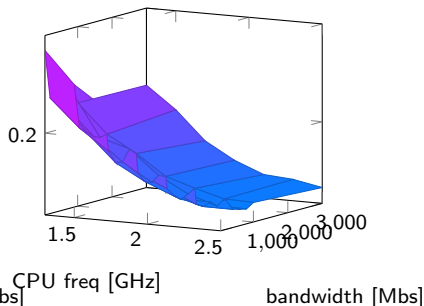
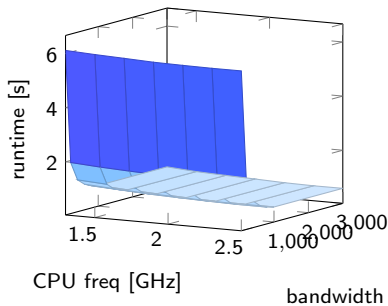
RepSearch Latency at Input 4096



- Ref.Problem: Scalable Search v1
- Protocols: MP-SPDZ
- Metric: Latency - Runtime at input 4096
- Node: ether

- Ref.Problem: Scalable Search v2
- Protocols: MP-SPDZ
- Metric: Latency - Runtime at input 4096
- Node: ether

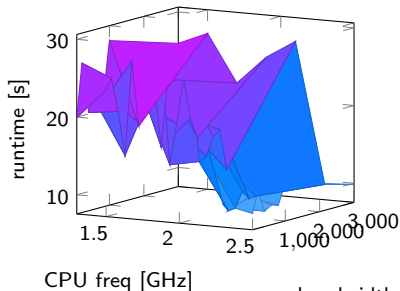
CPU Bandwidth Frequency Yao



- Ref.Problem: Scalable Search v1
- Protocols: MP-SPDZ
- Metric: Bandwidth - Frequency - Runtime at input 4096
- Node: ether

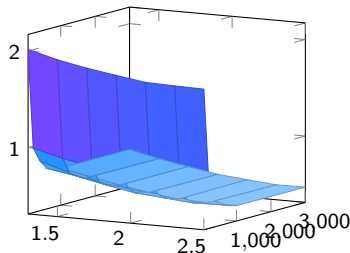
- Ref.Problem: Scalable Search v2
- Protocols: MP-SPDZ
- Metric: Bandwidth - Frequency - Runtime at input 4096
- Node: ether

CPU Bandwidth Frequency rep3



CPU freq [GHz] bandwidth [Mbs]

- Ref.Problem: Scalable Search v1
- Protocols: MP-SPDZ
- Metric: Bandwidth - Frequency - Runtime at input 4096
- Node: ether



CPU freq [GHz] bandwidth [Mbs]

- Ref.Problem: Scalable Search v2
- Protocols: MP-SPDZ
- Metric: Bandwidth - Frequency - Runtime at input 4096
- Node: ether