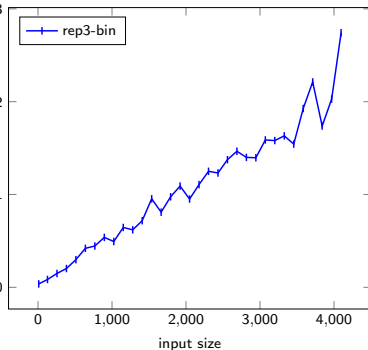
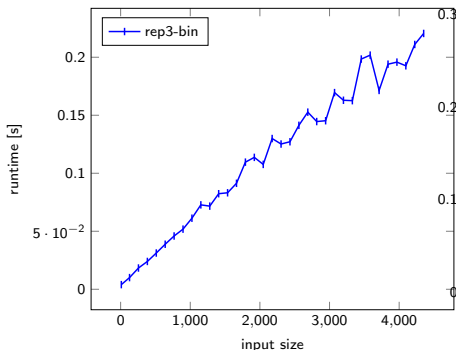


# Sevarebench Measurement Results

## MP-SPDZ Replicated-Bin Scalable Search

December 10, 2022

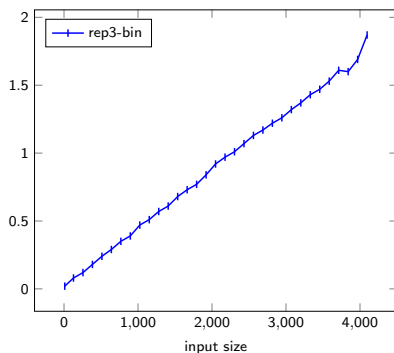
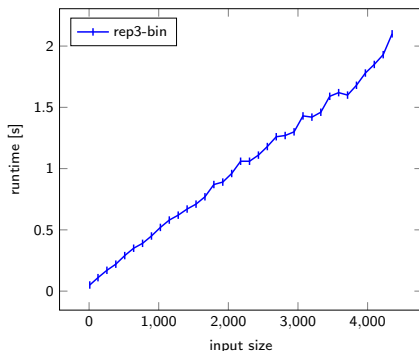
# RepSearch Internal Runtime



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

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

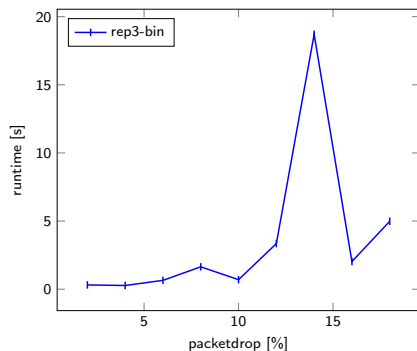
# RepSearch External Runtime



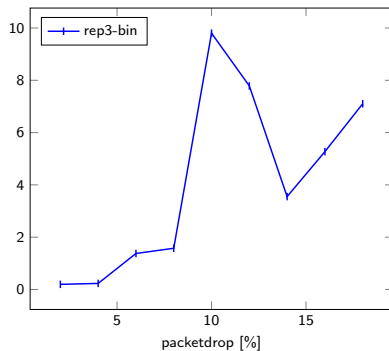
- Ref.Problem: Scalable Search unencrypted
- Protocols: MP-SPDZ
- Metric: Input - Runtime
- Node: ether

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

# RepSearch Packetdrop at Input 4096

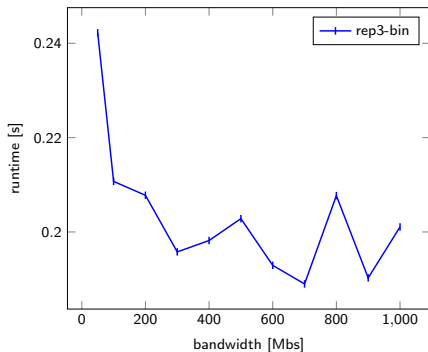


- Ref.Problem: Scalable Search unencrypted
- Protocols: MP-SPDZ
- Metric: Packetdrops - Runtime at input 4096
- Node: ether

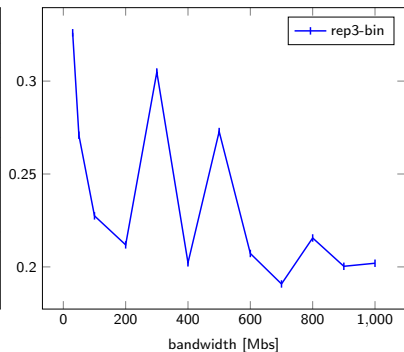


- Ref.Problem: Scalable Search encrypted
- Protocols: MP-SPDZ
- Metric: Packetdrops - Runtime at input 4096
- Node: ether

## RepSearch Bandwidth at Input 4096

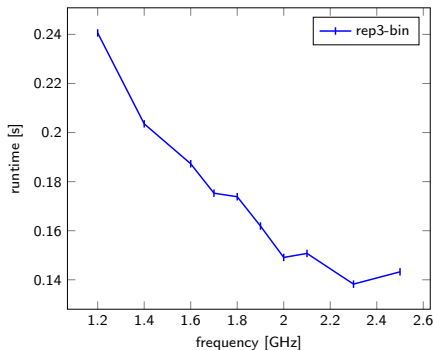


- Ref.Problem: Scalable Search unencrypted
- Protocols: MP-SPDZ
- Metric: Bandwidth - Runtime at input 4096
- Node: ether

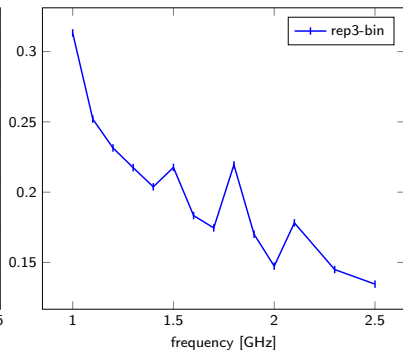


- Ref.Problem: Scalable Search encrypted
- Protocols: MP-SPDZ
- Metric: Bandwidth - Runtime at input 4096
- Node: ether

## RepSearch Frequency at Input 4096

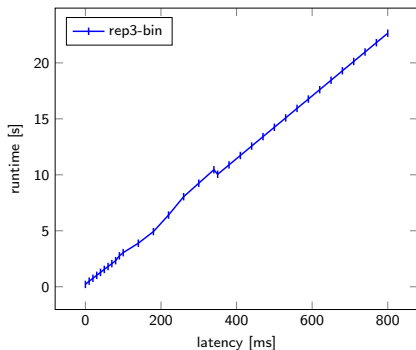


- Ref.Problem: Scalable Search unencrypted
- Protocols: MP-SPDZ
- Metric: Frequency - Runtime at input 4096
- Node: ether

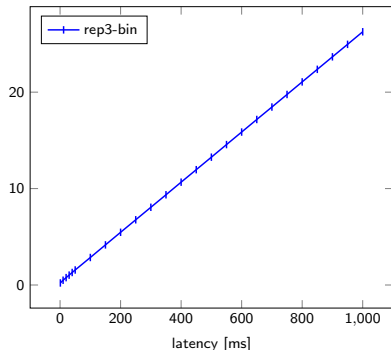


- Ref.Problem: Scalable Search encrypted
- Protocols: MP-SPDZ
- Metric: Frequency - Runtime at input 4096
- Node: ether

# RepSearch Latency at Input 4096

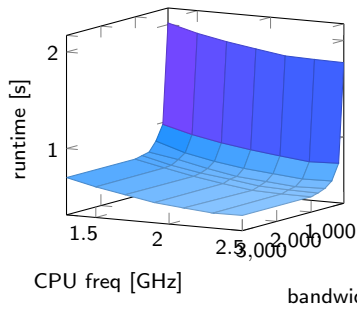


- Ref.Problem: Scalable Search unencrypted
- Protocols: MP-SPDZ
- Metric: Latency - Runtime at input 4096
- Node: ether

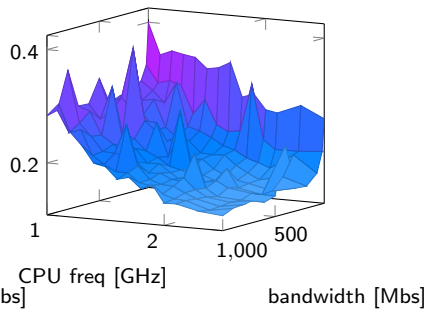


- Ref.Problem: Scalable Search encrypted
- Protocols: MP-SPDZ
- Metric: Latency - Runtime at input 4096
- Node: ether

## CPU Bandwidth Frequency rep3-bin



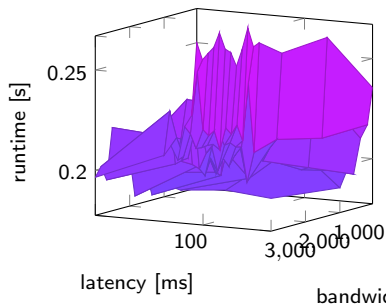
- Ref.Problem: Scalable Search unencrypted
- Protocols: MP-SPDZ
- Metric: Bandwidth - Frequency - Runtime at input 4096
- Node: ether



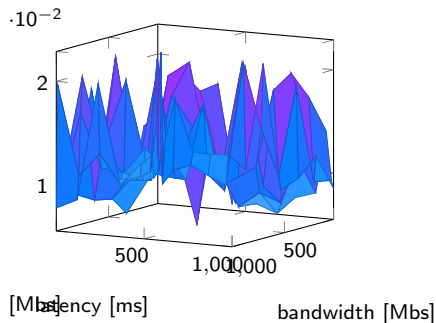
- Ref.Problem: Scalable Search encrypted
- Protocols: MP-SPDZ
- Metric: Bandwidth - Frequency - Runtime at input 4096
- Node: ether



## CPU Bandwidth Latency rep3-bin



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



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