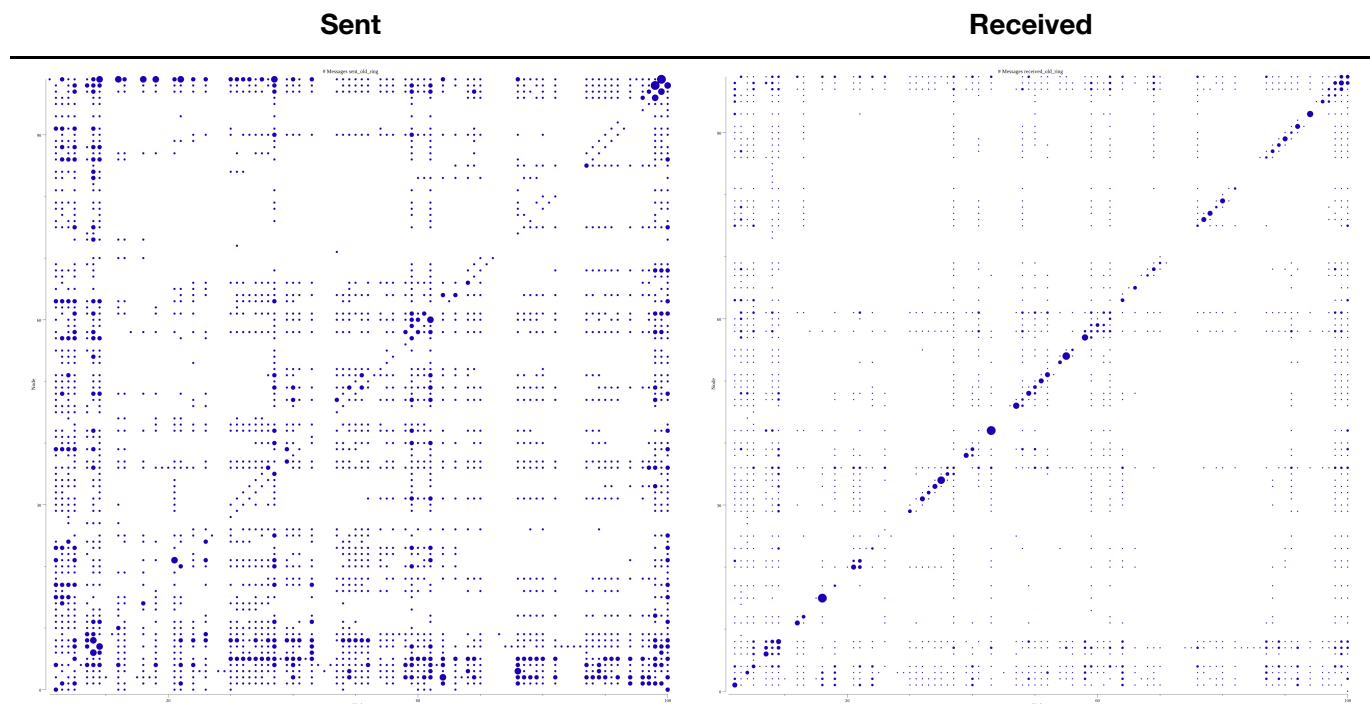


# Results about ring mutations

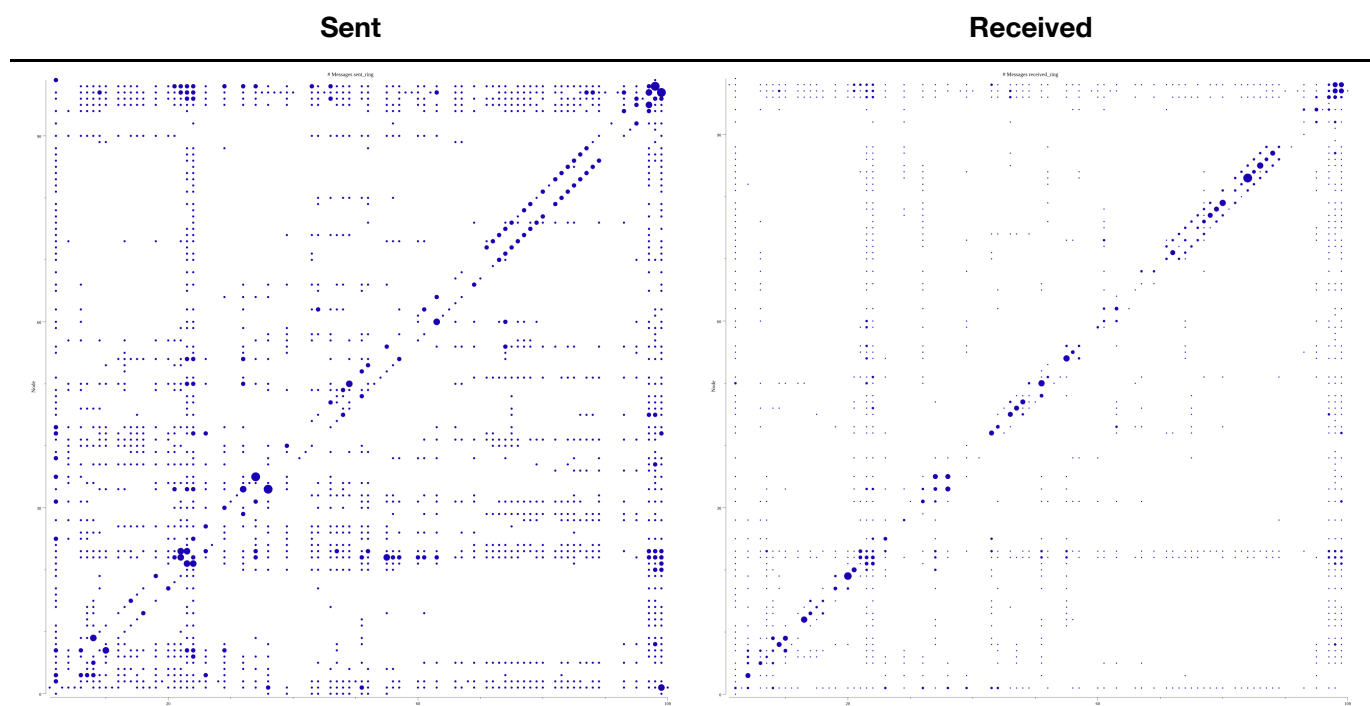
In order to have an overview and to be able to analyze all the results, a set of graphs was built. Each of these graphs represents a specific environment.

## Messages exchange

### Old Ring



### New Ring

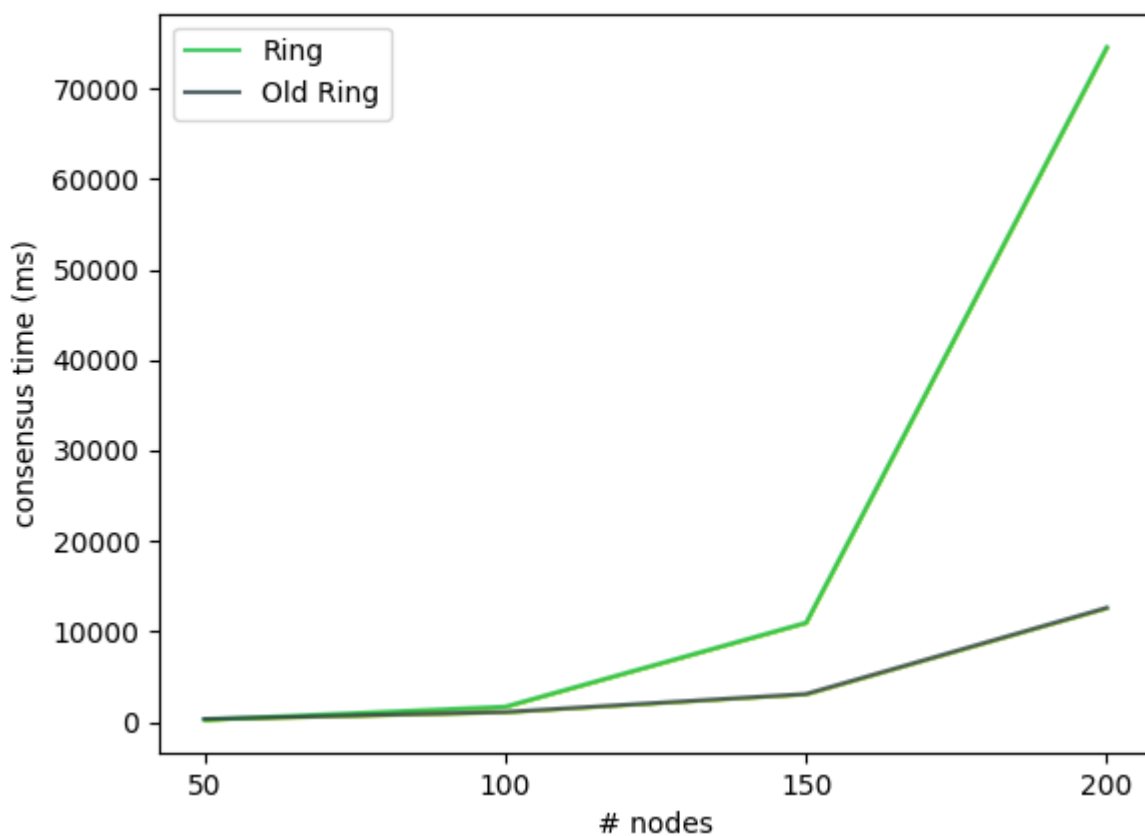


## Environment without faults

Low default delta

```
default_delta      = 1 s
max_tries          = 3 tries
percentage_miss    = 0.0 %
percentage_faults  = 0.0 %
probability_to_fail = 0.0 %
bandwidth          = 200 msgs/s
latency            = 125.0 ms
```

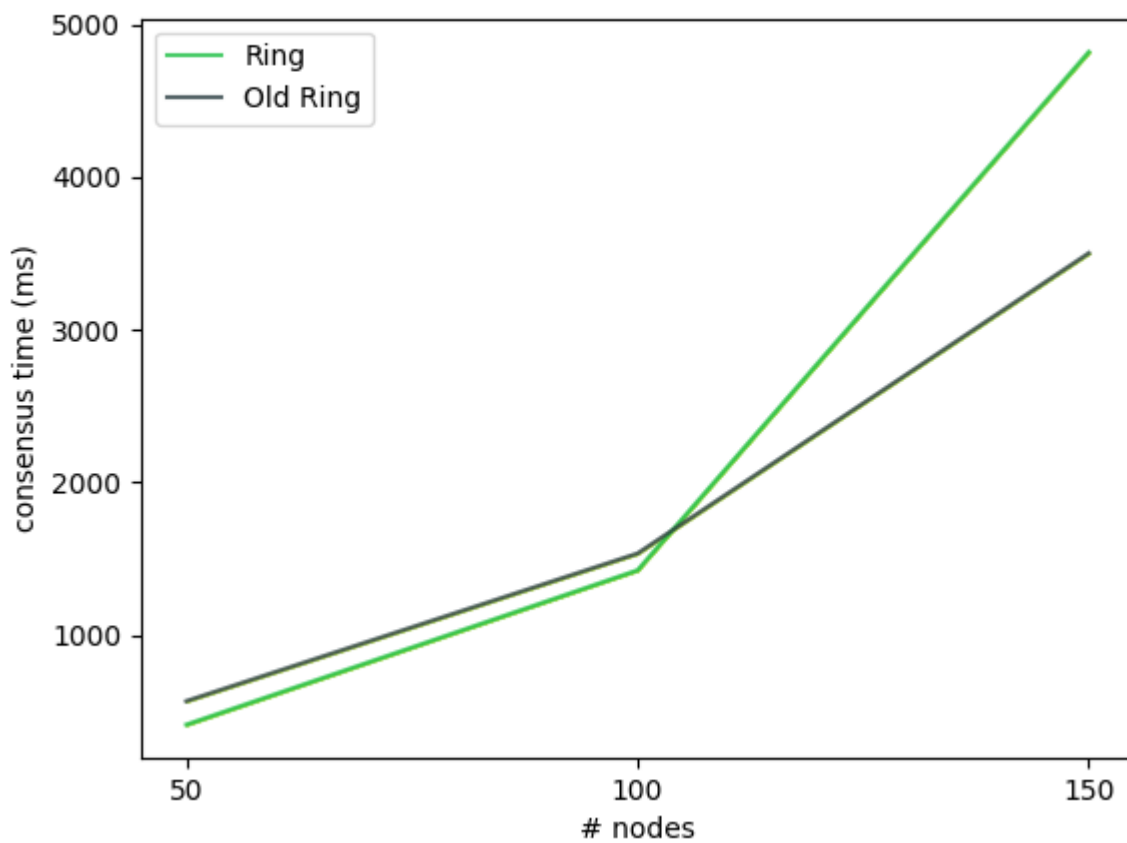
### Graph



## Normal Case

```
default_delta      = 3 s
max_tries          = 3 tries
percentage_miss     = 0.0 %
percentage_faults   = 0.0 %
probability_to_fail = 0.0 %
bandwidth          = 100 msgs/s
latency            = 125.0 ms
```

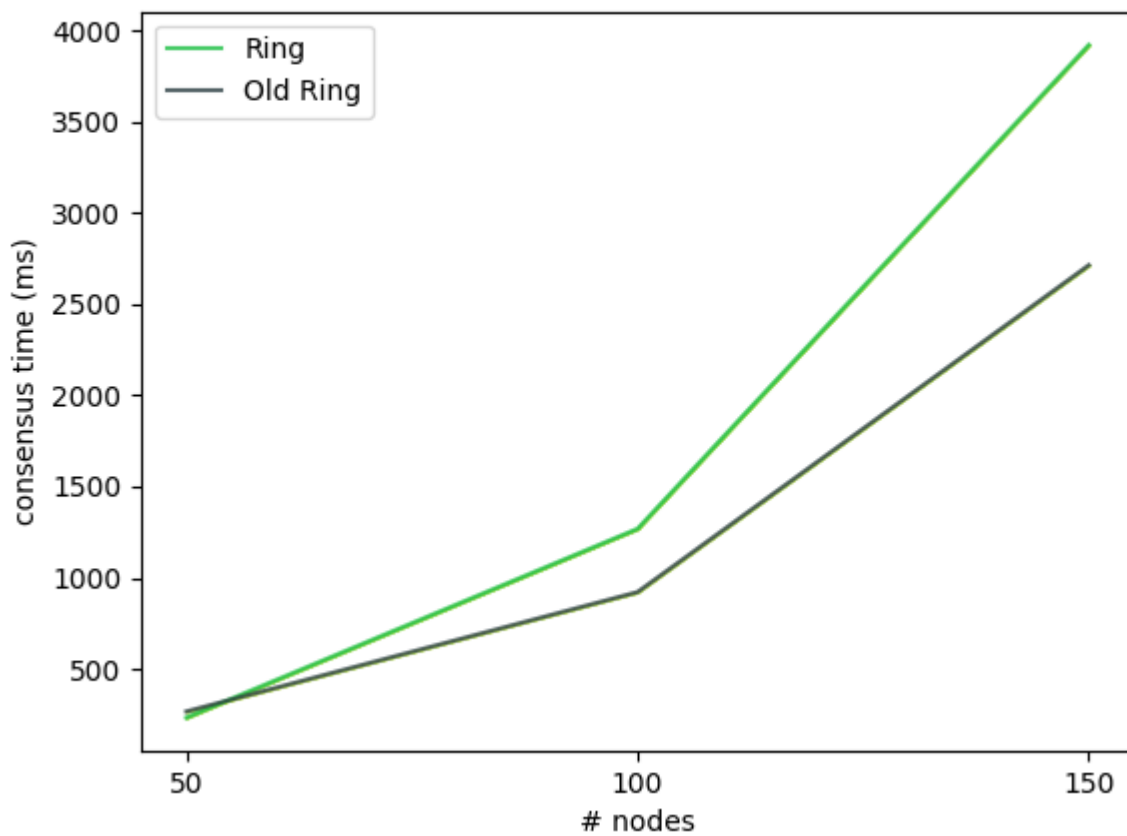
## Graph



## Large bandwidth

```
default_delta      = 3 s
max_tries          = 3 tries
percentage_miss     = 0.0 %
percentage_faults   = 0.0 %
probability_to_fail = 0.0 %
bandwidth          = 300 msgs/s
latency            = 125.0 ms
```

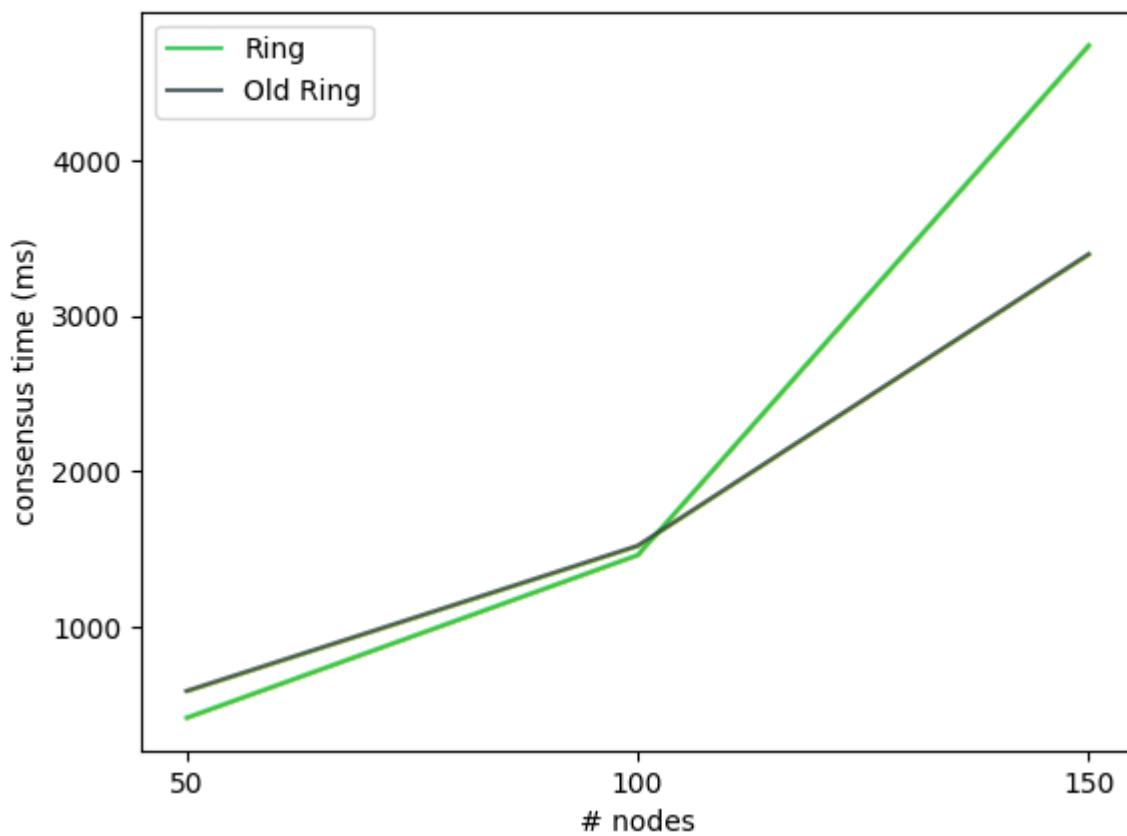
## Graph



## High latency

```
default_delta      = 3 s
max_tries          = 3 tries
percentage_miss     = 0.0 %
percentage_faults   = 0.0 %
probability_to_fail = 0.0 %
bandwidth          = 100 msgs/s
latency            = 375.0 ms
```

## Graph

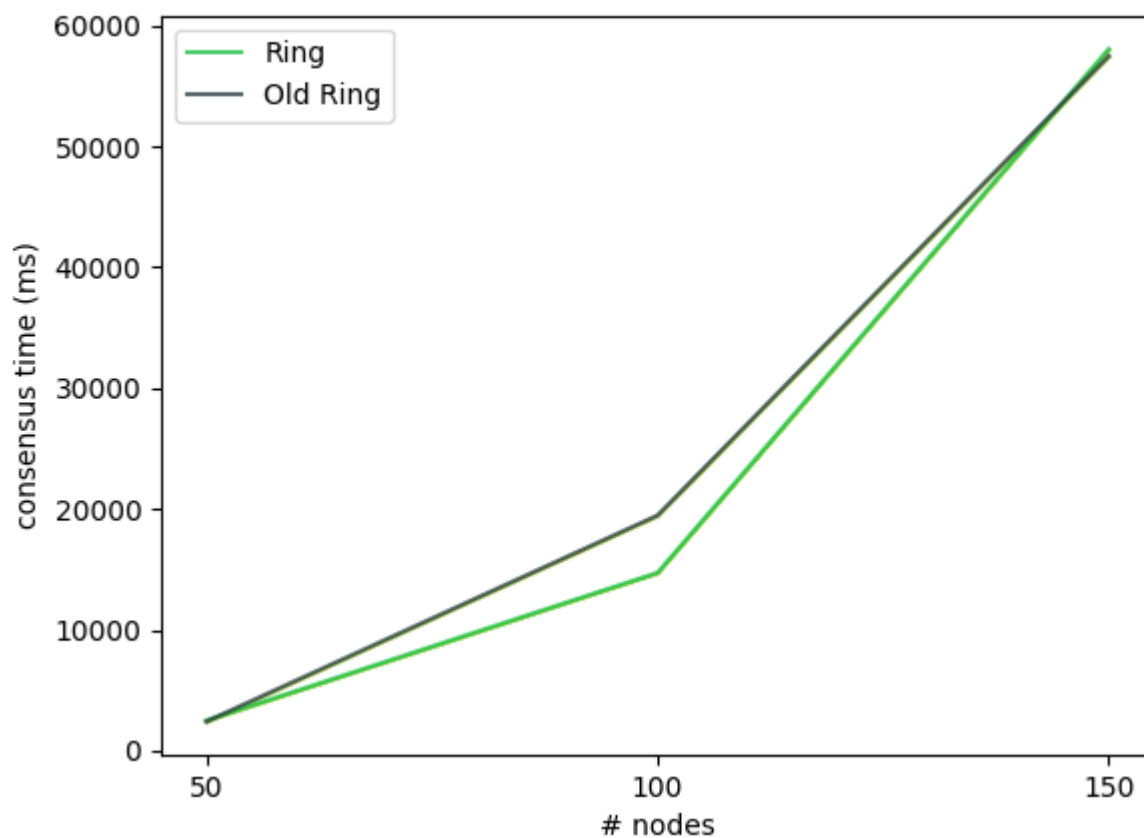


## Environment with faults

Low default delta

```
default_delta      = 1 s
max_tries          = 3 tries
percentage_miss     = 8.0 %
percentage_faults   = 15.0 %
probability_to_fail = 15.0 %
bandwidth          = 200 msgs/s
latency            = 125.0 ms
```

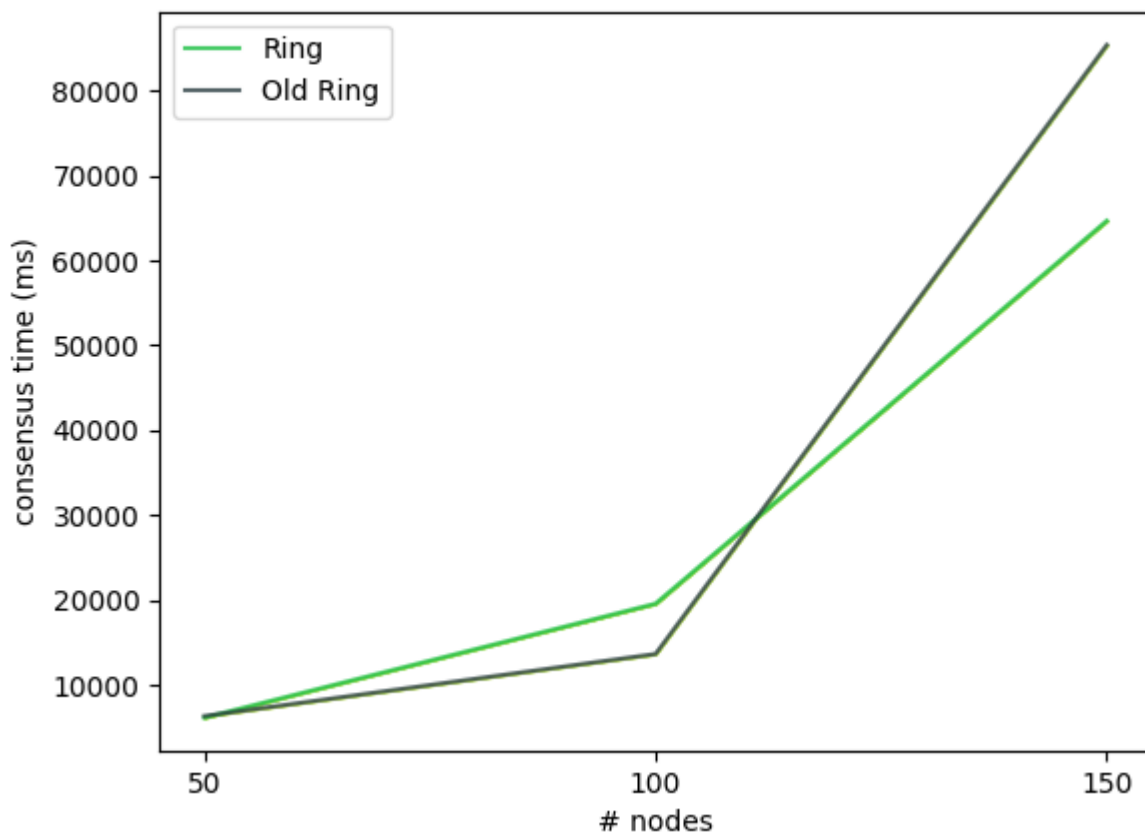
### Graph



## Normal Case

```
default_delta      = 3 s
max_tries          = 3 tries
percentage_miss     = 8.0 %
percentage_faults   = 15.0 %
probability_to_fail = 15.0 %
bandwidth          = 100 msgs/s
latency            = 125.0 ms
```

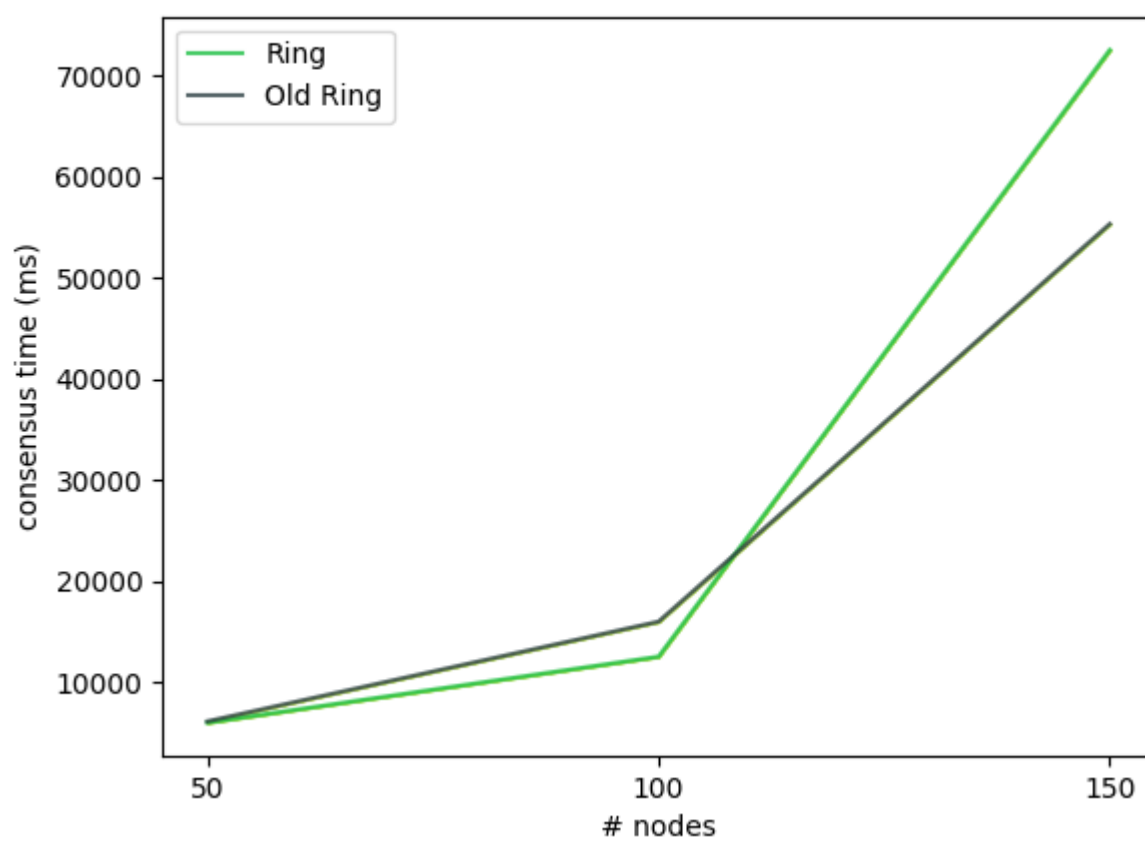
## Graph



## Large bandwidth

```
default_delta      = 3 s
max_tries          = 3 tries
percentage_miss     = 8.0 %
percentage_faults   = 15.0 %
probability_to_fail = 15.0 %
bandwidth          = 300 msgs/s
latency            = 125.0 ms
```

## Graph

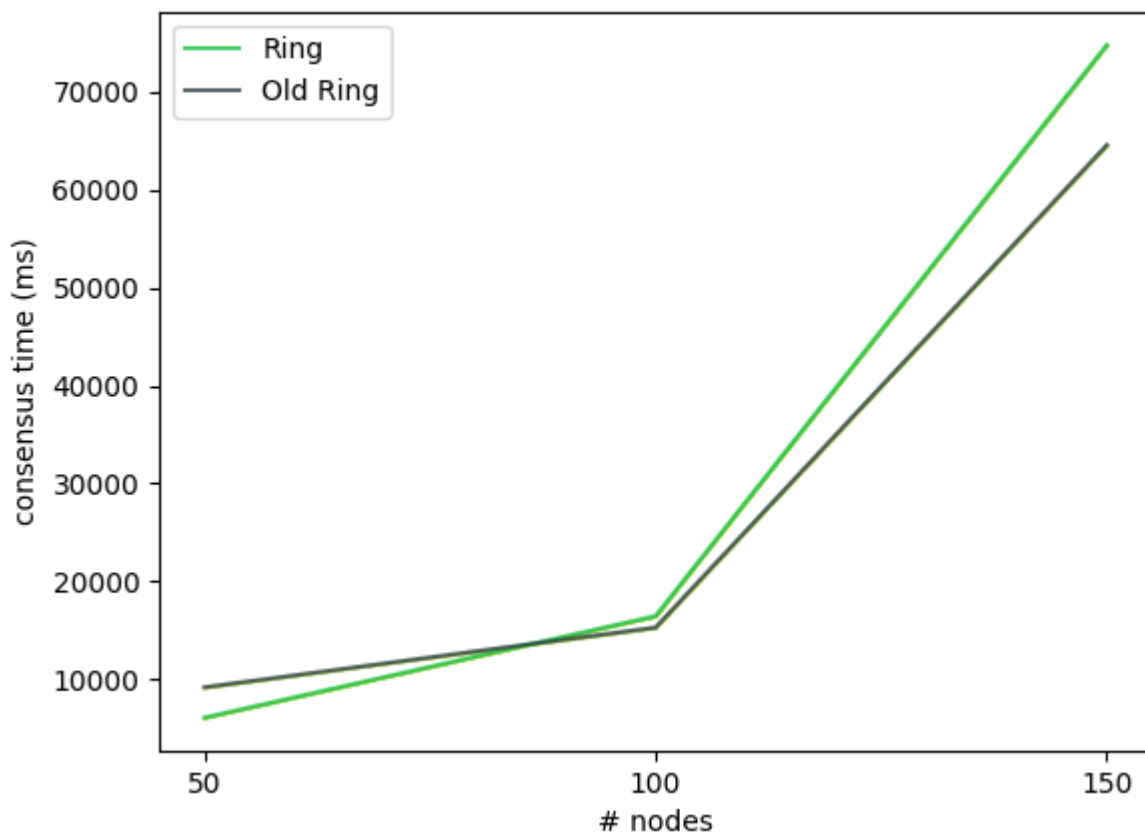




## High latency

```
default_delta      = 3 s
max_tries          = 3 tries
percentage_miss    = 8.0 %
percentage_faults  = 15.0 %
probability_to_fail = 15.0 %
bandwidth          = 100 msgs/s
latency            = 375.0 ms
```

## Graph



A lot of faults

```
default_delta      = 3 s
max_tries          = 3 tries
percentage_miss     = 16.0 %
percentage_faults   = 30.0 %
probability_to_fail = 30.0 %
bandwidth          = 200 msgs/s
latency            = 125.0 ms
```

## Graph

