

# Performance evaluation on the FIZ cluster

The following numbers were gathered on the 6 node FIZ cluster.

## Node network I/O performance

The physical hosts have a 1gb/s network connection using a NetGear switch the nodes are connected by at most one hop.

## Node hdd performance

```
solws2$ sync;time sudo bash -c "(dd if=/dev/zero of=bf bs=8k count=500000; sync)"
```

```
500000+0 records in  
500000+0 records out  
4096000000 bytes (4.1 GB) copied, 105.135 s, 39.0 MB/s
```

## Results

### Test Utility

BenchTool: <https://github.com/futures/benchtool>

#### A. Ingest bench using fcrepo4

Created 1000 objects with one datastream of 100mb size using 20 threads

```
Size: 1000 * 1048576 bytes = 100gb  
Duration: 3319473090 ms  
Throughput: 0.6 mb/s
```

