

1 Plotting all figures

1.1

Cluster and Node Placement Times (s)

```
replications cluster-placement-time node-placement-time
replica-1 0,00 0,40
replicas-5 0,20 3,30
replicas-10 0,10 6,30
replicas-20 0,40 13,00
replicas-30 0,90 19,10
```

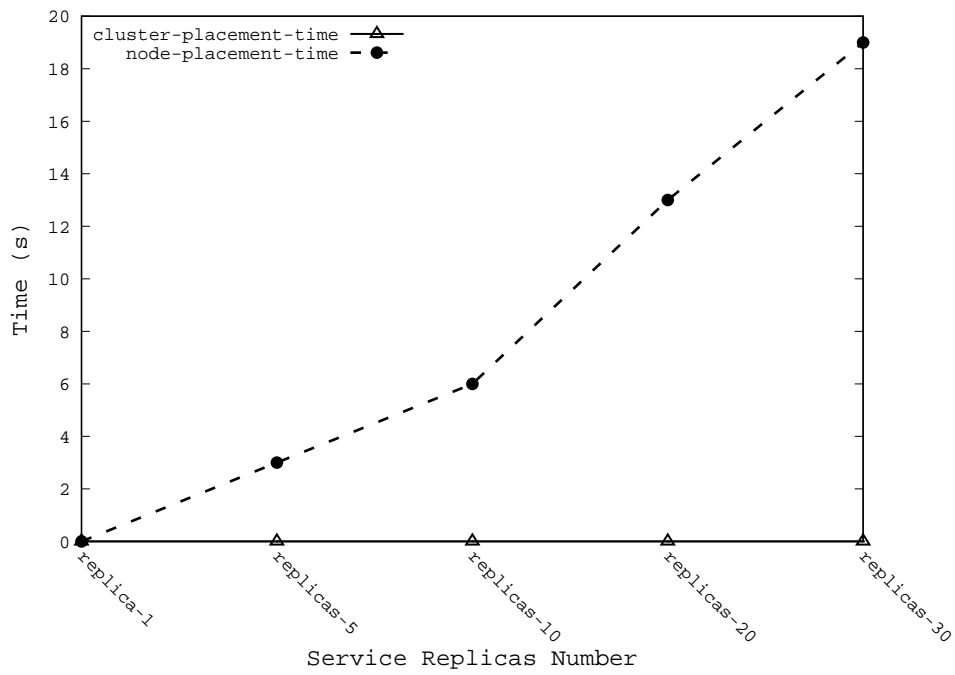


Fig. 1.

1.2

Cluster CPU Utilization (%)

```
replications cluster-1 cluster-2 cluster-3
replica-1 7,00 0,00 0,00
replicas-5 39,00 0,00 0,00
replicas-10 78,00 0,00 0,00
replicas-20 99,30 0,00 56,30
replicas-30 99,40 34,00 99,80
```

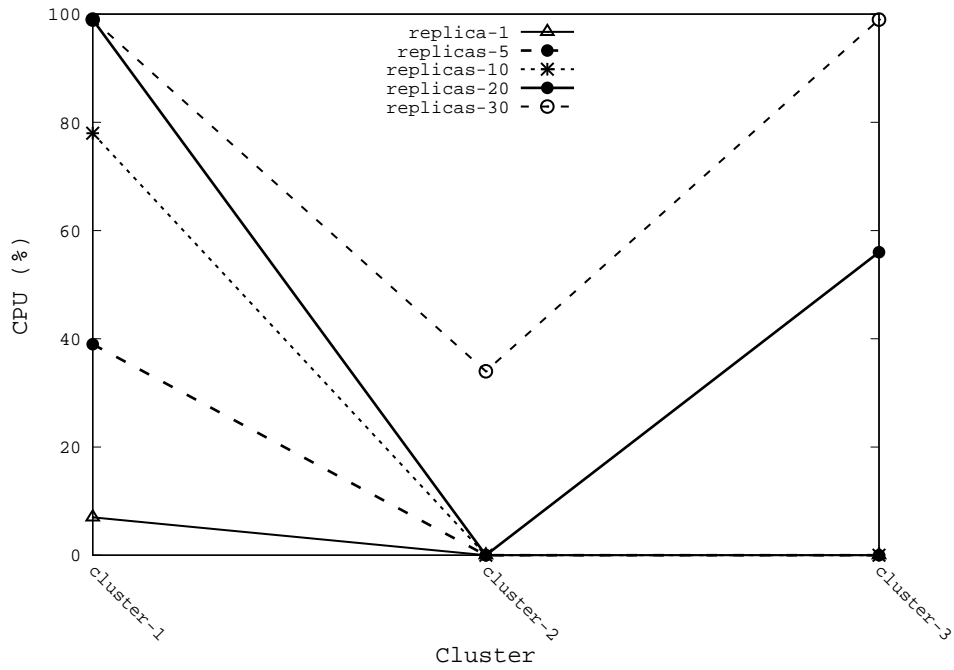


Fig. 2.

1.3

Cluster Memory Utilization (%)

replications	cluster-1	cluster-2	cluster-3
replica-1	3,00	0,00	0,00
replicas-5	19,00	0,00	0,00
replicas-10	39,00	0,00	0,00
replicas-20	49,70	0,00	28,00
replicas-30	50,00	17,00	50,00

1.4

Cluster Node Utilization (%)

replications	cluster-1	cluster-2	cluster-3
replica-1	100,00	0,00	0,00
replicas-5	100,00	0,00	0,00
replicas-10	100,00	0,00	0,00
replicas-20	100,00	0,00	100,00
replicas-30	100,00	50,00	100,00

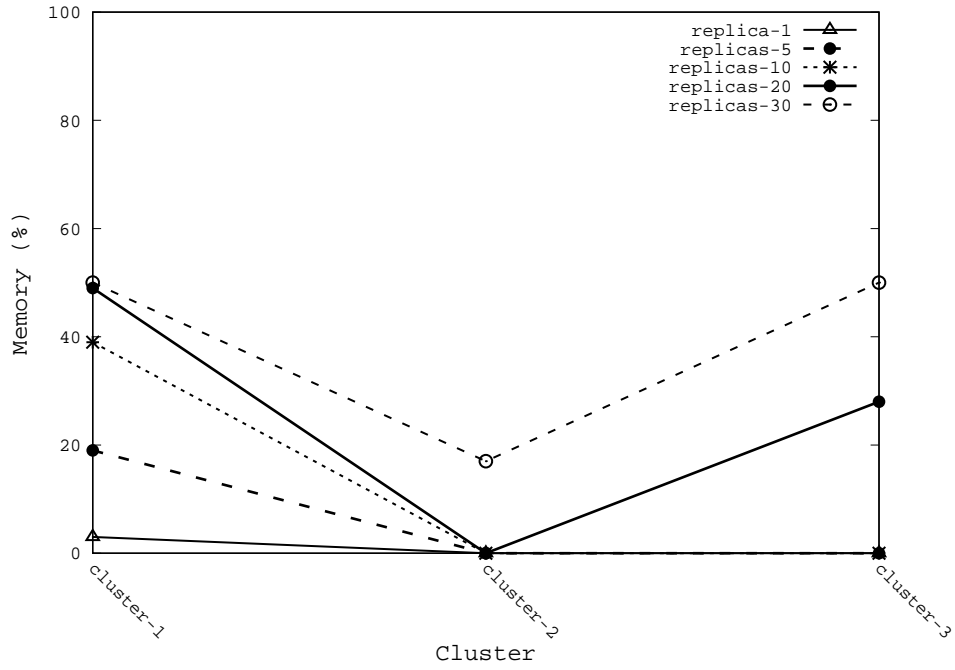


Fig. 3.

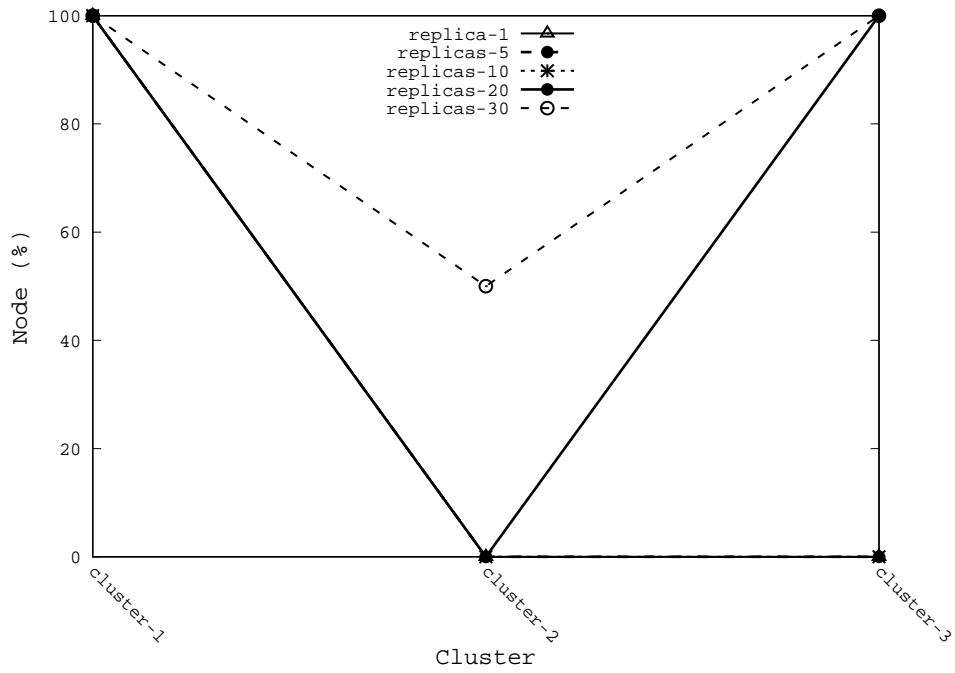


Fig. 4.

1.5

Node CPU Utilization (%)

nodes cluster-1-node1 cluster-1-node2 cluster-2-node1
cluster-2-node2 cluster-3-node1 cluster-3-node2

replica-1	7,00	7,00	0,00	0,00	0,00	0,00
replicas-5	39,00	39,00	0,00	0,00	0,00	0,00
replicas-10	78,00	78,00	0,00	0,00	0,00	0,00
replicas-20	99,60	99,10	0,00	0,00	99,70	12,60
replicas-30	99,50	99,50	68,00	0,00	99,70	99,60

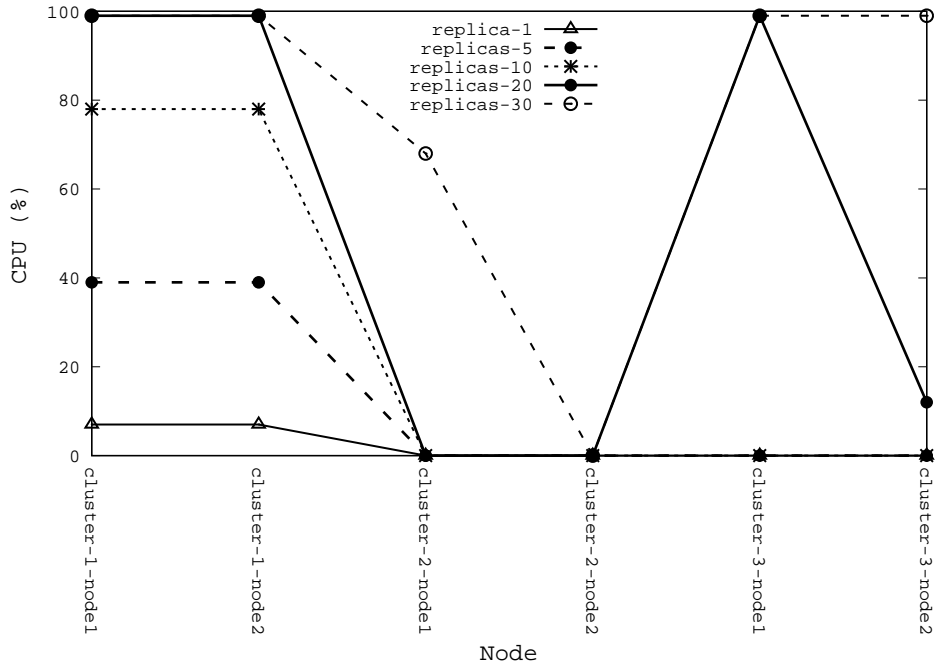


Fig. 5.

1.6

Node Memory Utilization (%)

nodes	cluster-1-node1	cluster-1-node2	cluster-2-node1	cluster-2-node2	cluster-3-node1	cluster-3-node2
replica-1	3,00	3,00	0,00	0,00	0,00	0,00
replicas-5	19,00	19,00	0,00	0,00	0,00	0,00
replicas-10	39,00	39,00	0,00	0,00	0,00	0,00
replicas-20	50,00	49,70	0,00	0,00	50,00	6,30
replicas-30	50,00	50,00	34,00	0,00	50,00	50,00

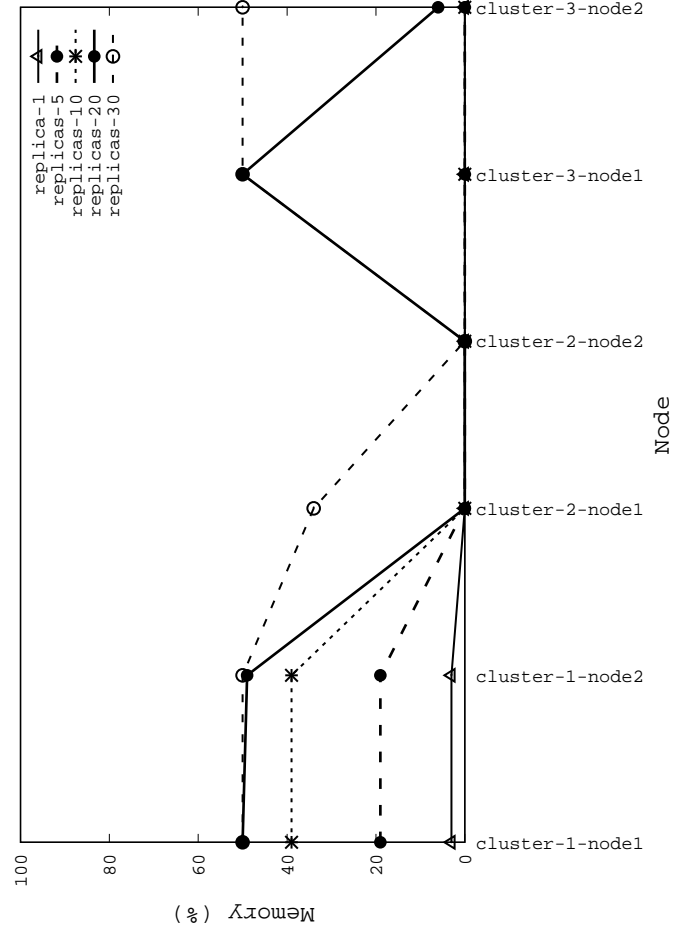


Fig. 6.