

1 Plotting all figures

1.1

Listing 1. Cluster and Node Placement Times
Cluster and Node Placement Times (ms)
clusters cluster-placement-time node-placement-time
clusters-3 0.00 8.00
clusters-5 1.00 9.00
clusters-10 7.00 22.00

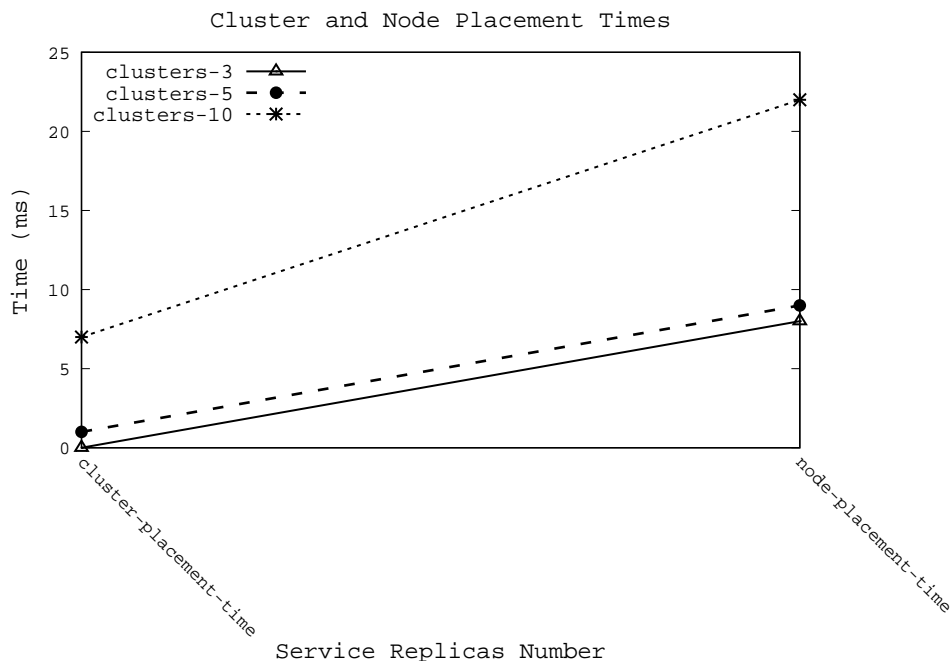


Fig. 1. Cluster and Node Placement Times

1.2

Listing 2. Cluster CPU Utilization
Cluster CPU Utilization (%)
clusters cluster-1 cluster-2 cluster-3 cluster-4
cluster-5 cluster-6 cluster-7 cluster-8 cluster-9
cluster-10
clusters-3 93.00 24.00 100.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
clusters-5 100.00 25.00 0.00 0.00 93.00 0.00 0.00 0.00

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0.00 0.00
clusters-10 93.00 24.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 99.00

```

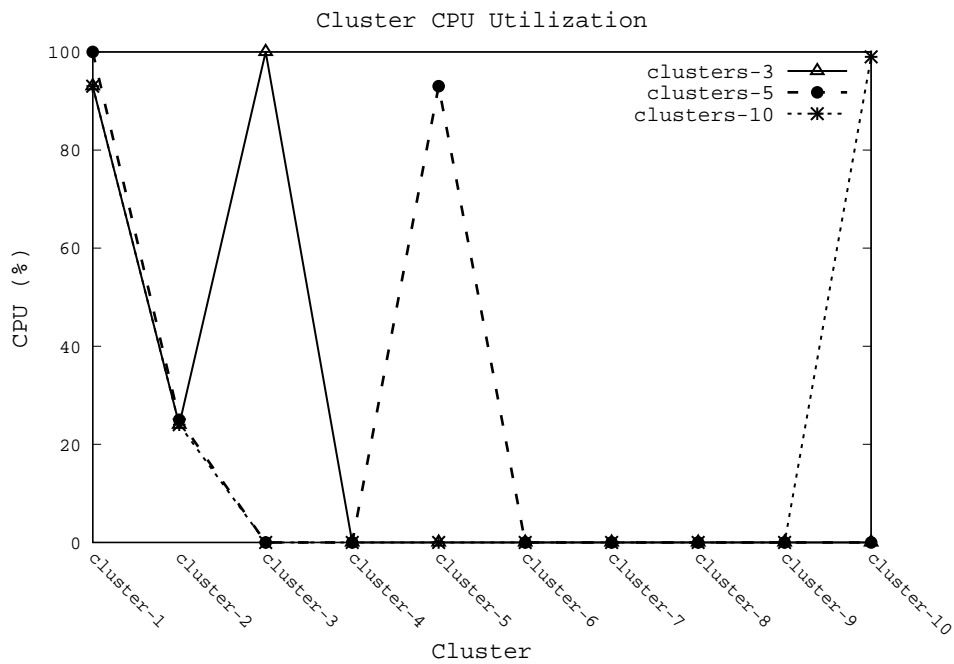


Fig. 2. Cluster CPU Utilization

1.3

Listing 3. Cluster Memory Utilization

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Cluster Memory Utilization (%)
clusters cluster-1 cluster-2 cluster-3 cluster-4
cluster-5 cluster-6 cluster-7 cluster-8 cluster-9
cluster-10
clusters-3 34.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
clusters-5 34.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
clusters-10 34.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00

```

1.4

Listing 4. Cluster Node Utilization

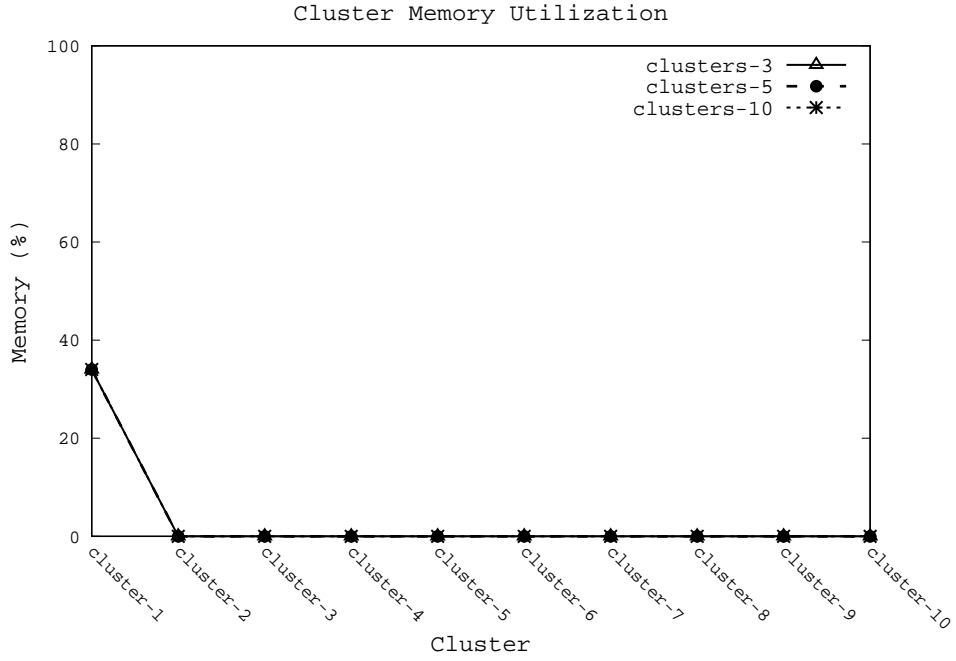


Fig. 3. Cluster Memory Utilization

Cluster Node Utilization (%)

	cluster-1	cluster-2	cluster-3	cluster-4	cluster-5	cluster-6	cluster-7	cluster-8	cluster-9	cluster-10
clusters-3	100.00	50.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
clusters-5	100.00	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00
clusters-10	100.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

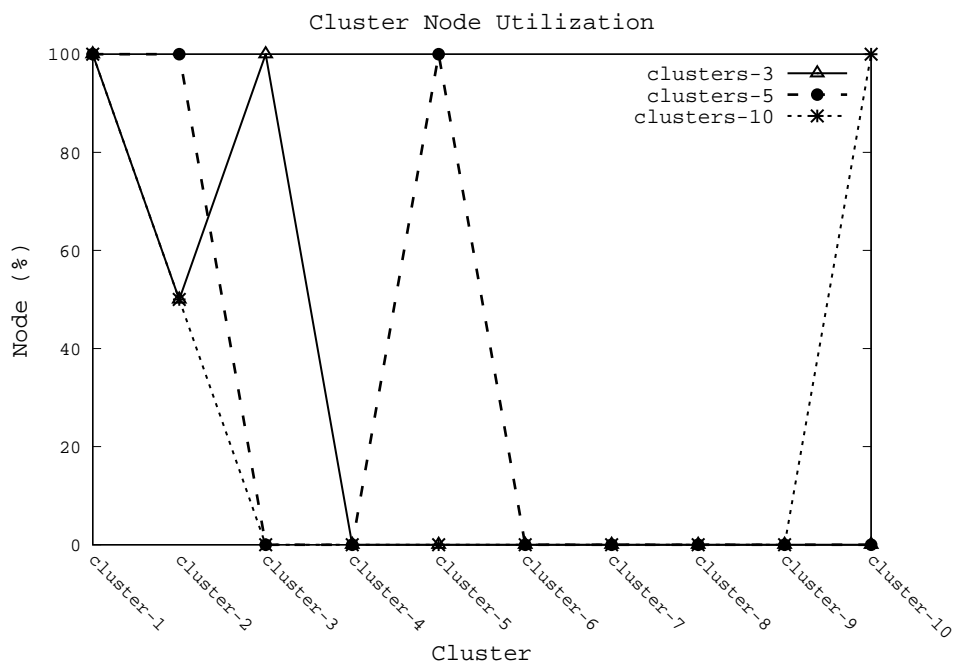


Fig. 4. Cluster Node Utilization