

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 0.30 31.60
clusters-5 0.70 18.20
clusters-10 6.30 30.80
```

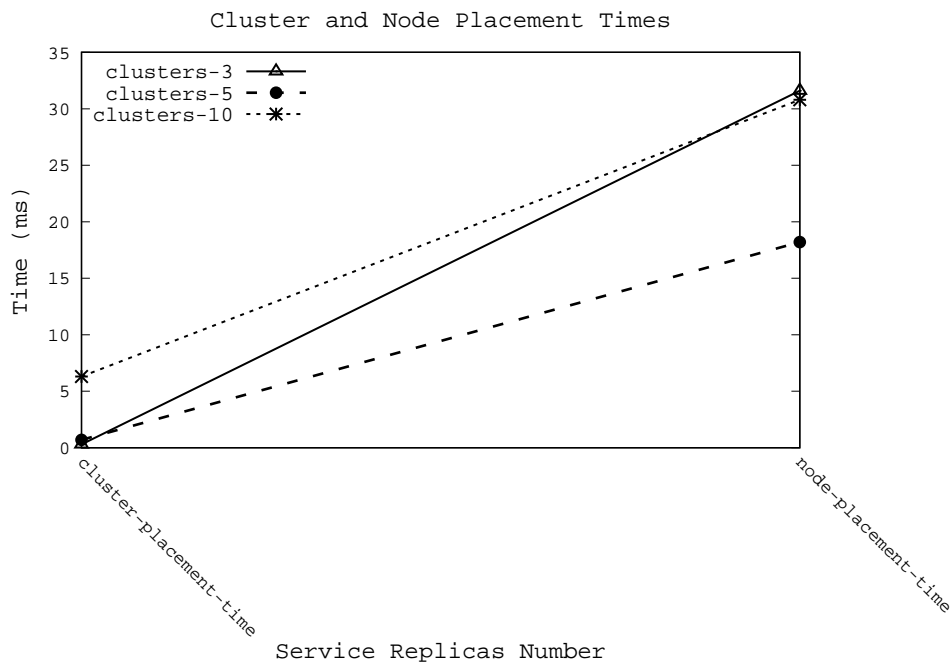


Fig. 1. Cluster and Node Placement Times

1.2

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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 97.40 44.90 92.20 0.00 0.00 0.00 0.00 0.00
0.00 0.00
clusters-5 98.00 99.40 6.00 0.00 99.70 0.00 0.00 0.00
```

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0.00 0.00
clusters-10 98.00 99.50 6.00 0.00 0.00 0.00 0.00 0.00
0.00 99.90

```

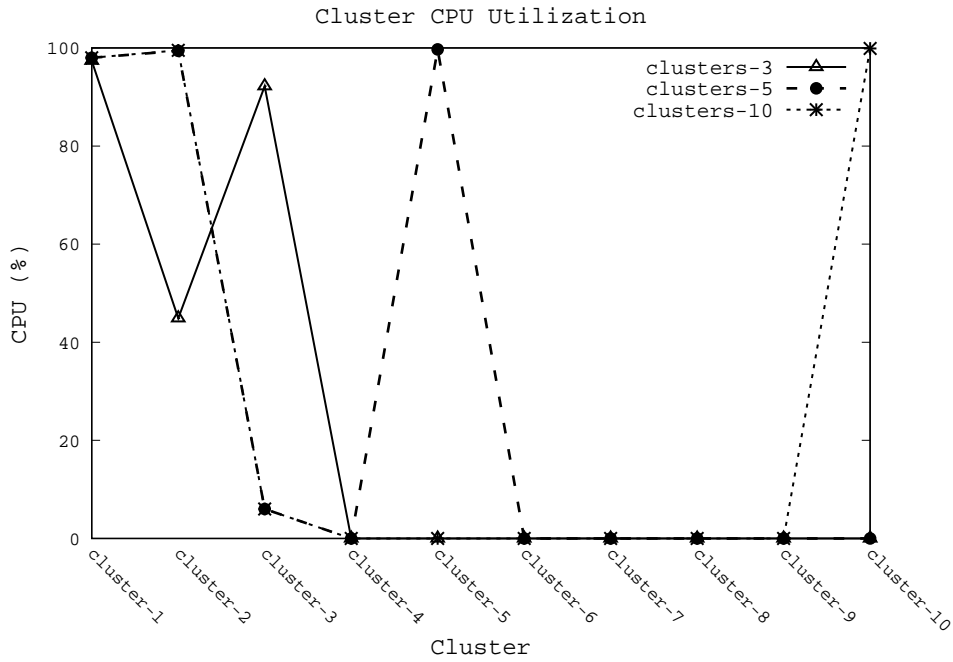


Fig. 2. Cluster CPU Utilization

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 41.60 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00
clusters-5 39.00 1.00 0.00 0.00 1.00 0.00 0.00 0.00
0.00 0.00
clusters-10 39.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 1.00

```

1.4

Listing 4. Cluster Node Utilization

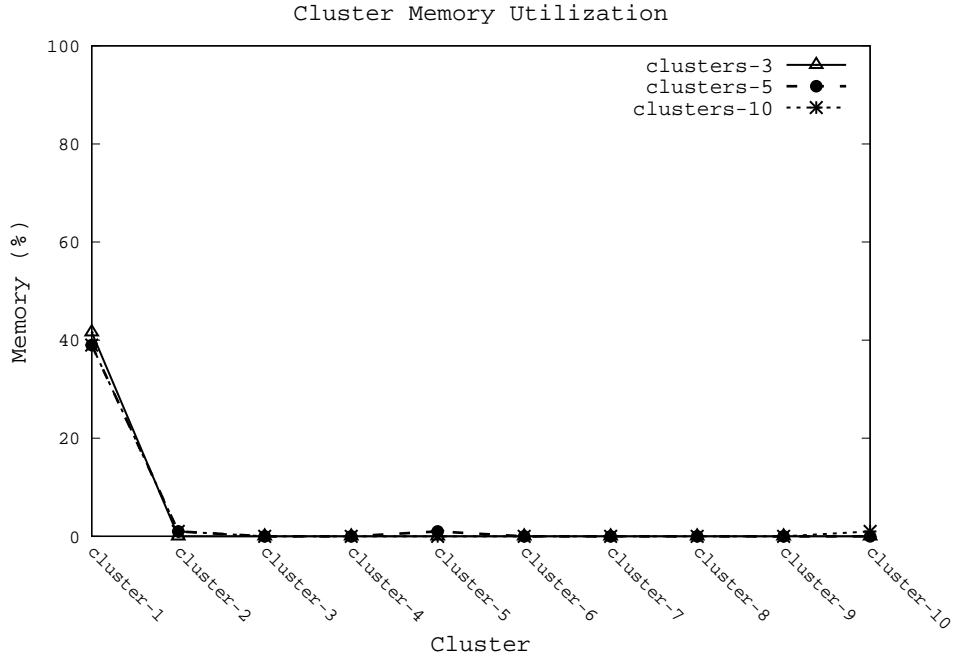


Fig. 3. Cluster Memory Utilization

Cluster Node Utilization (%)									
	cluster-1	cluster-2	cluster-3	cluster-4	cluster-5	cluster-6	cluster-7	cluster-8	cluster-9
clusters-3	100.00	90.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
clusters-5	100.00	100.00	50.00	0.00	100.00	0.00	0.00	0.00	0.00
clusters-10	100.00	100.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00

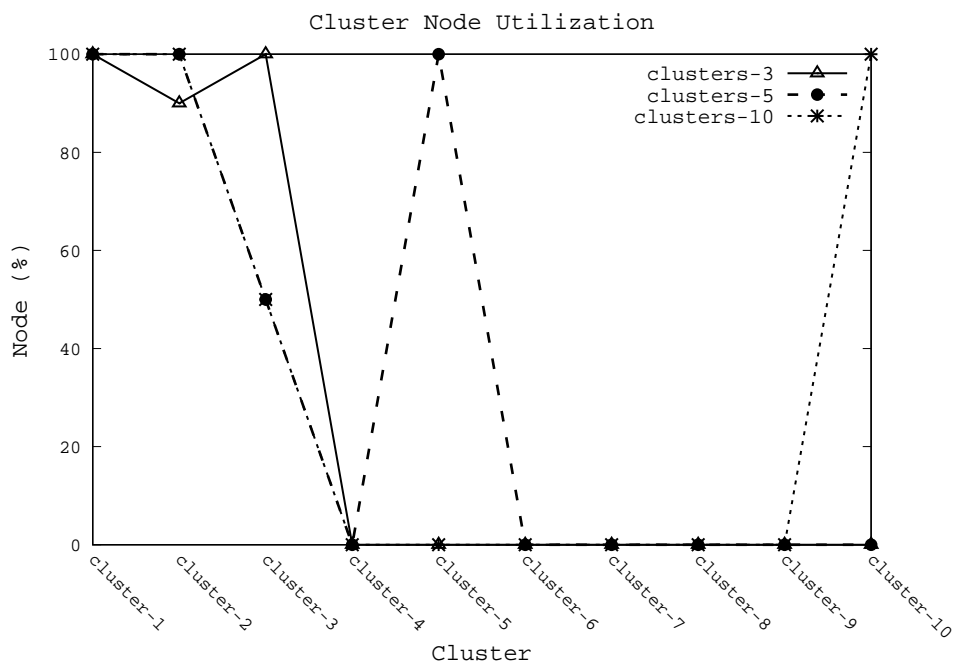


Fig. 4. Cluster Node Utilization