1 Plotting all figures

1.1

Listing 1. Cluster and Node Placement Times

```
Cluster and Node Placement Times (ms)
replications cluster-placement-time node-placement-time
replica-1 0.00 1.00
replicas-5 0.00 3.00
replicas-10 0.00 7.00
```
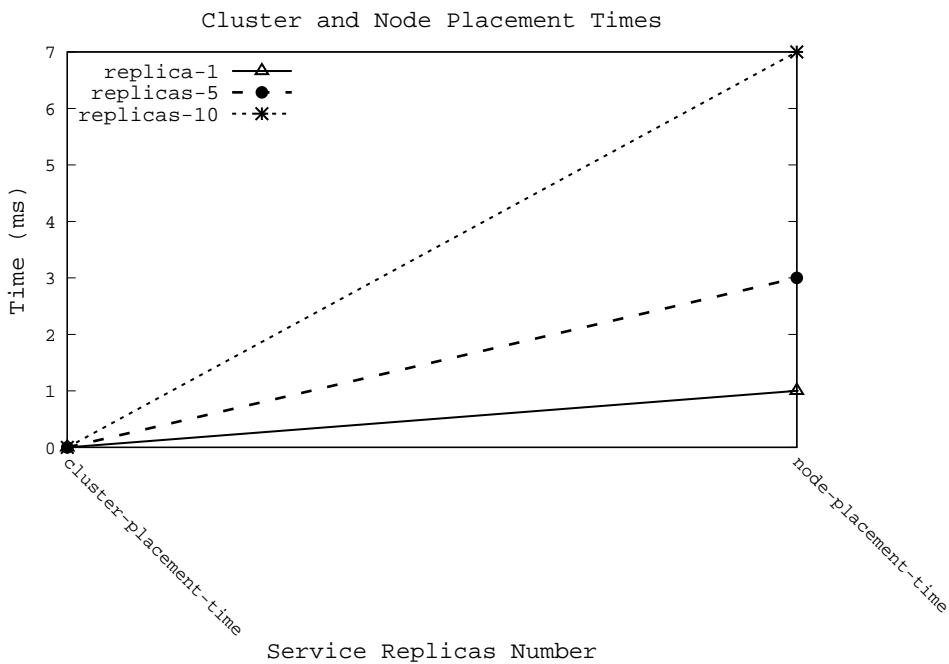

Fig. 1. Cluster and Node Placement Times

1.2

Listing 2. Cluster CPU Utilization

```
Cluster CPU Utilization (%)
replications cluster-1 cluster-2 cluster-3
replica-1 21.00 0.00 0.00
replicas-5 11.00 0.00 0.00
replicas-10 91.00 0.00 62.00
```
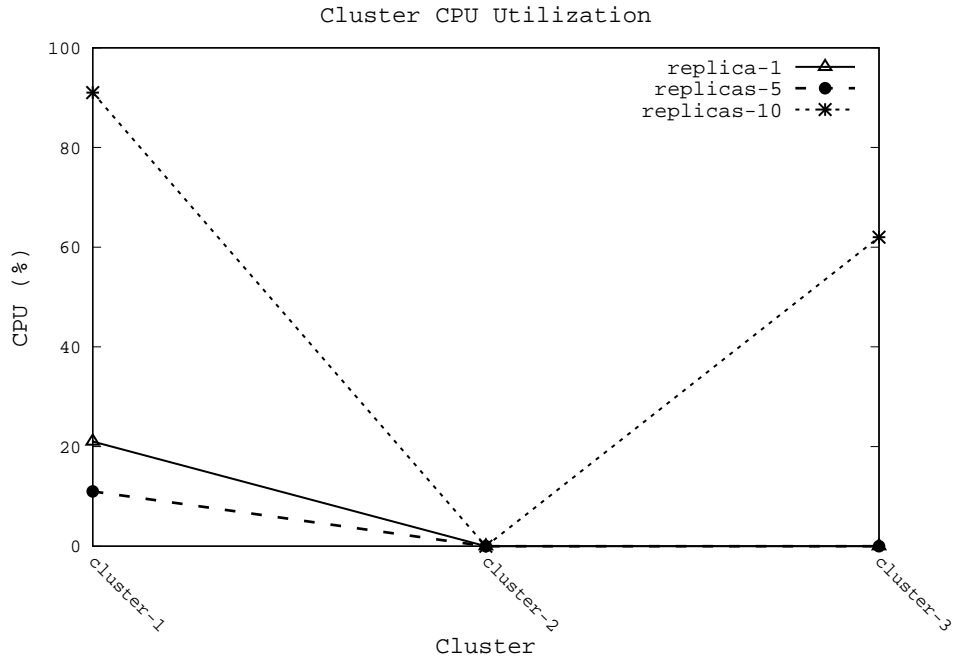
Fig. 2. Cluster CPU Utilization

1.3

Listing 3. Cluster Memory Utilization

```
Cluster Memory Utilization (%)
replications  cluster−1  cluster−2  cluster−3
replica−1  3.00  0.00  0.00
replicas−5  8.00  0.00  0.00
replicas−10  29.00  0.00  0.00
```

1.4

Listing 4. Cluster Node Utilization

```
Cluster Node Utilization (%)
replications  cluster−1  cluster−2  cluster−3
replica−1  100.00  0.00  0.00
replicas−5  50.00  0.00  0.00
replicas−10  100.00  0.00  100.00
```
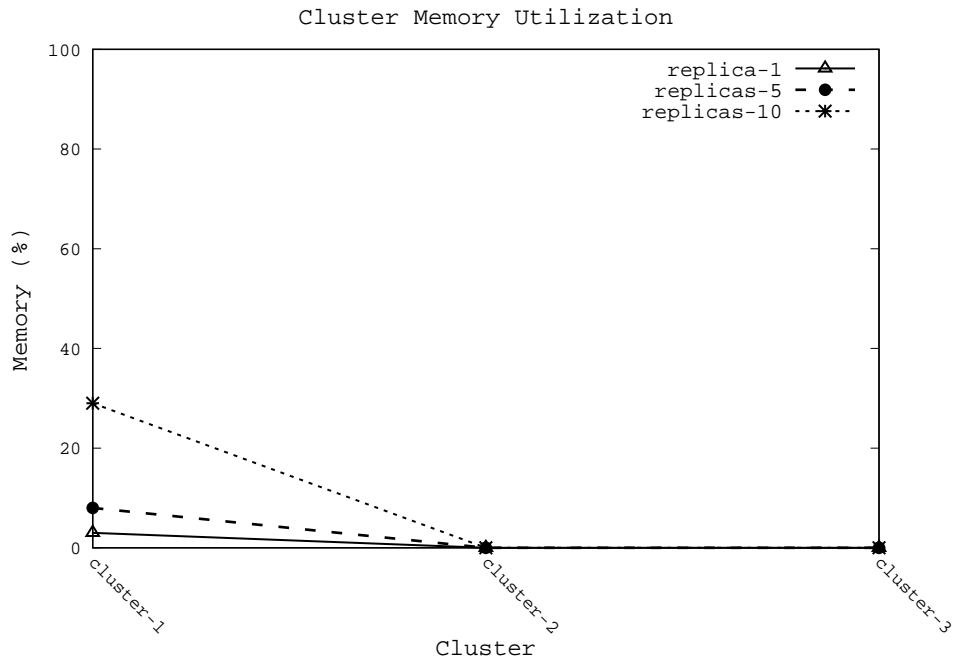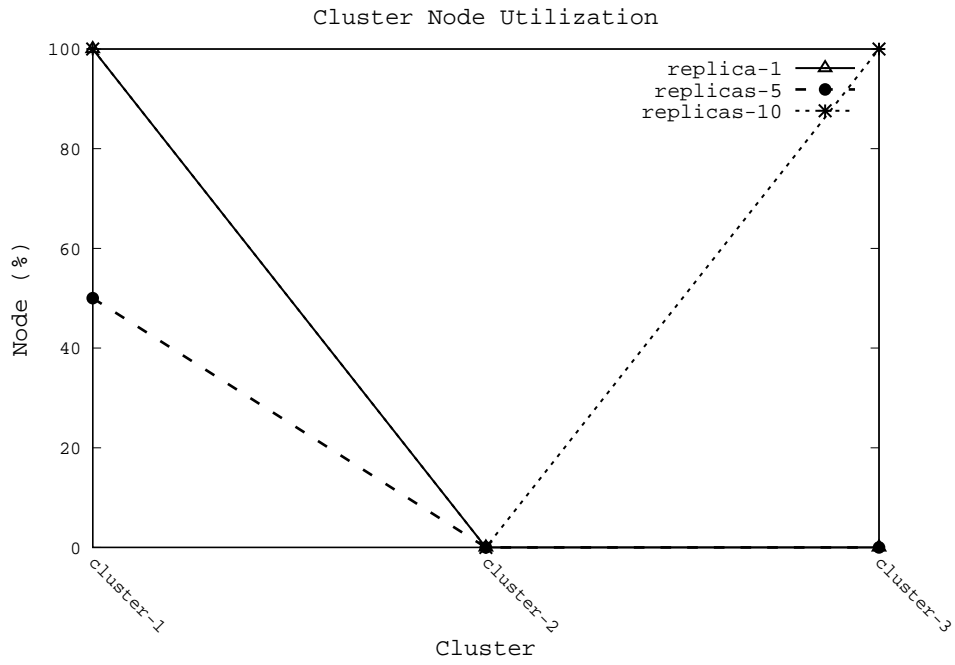
Cluster Memory Utilization

Fig. 3. Cluster Memory Utilization

Cluster Node Utilization

Fig. 4. Cluster Node Utilization