

1 Plotting all figures

1.1

Listing 1. Cluster and Node Placement Times

```
Cluster and Node Placement Times (s)
services cluster-placement-time node-placement-time
light-cpu 0,40 7,00
medium-cpu 0,00 2,60
large-cpu 0,00 1,50
mixture-cpu 0,20 4,00
```

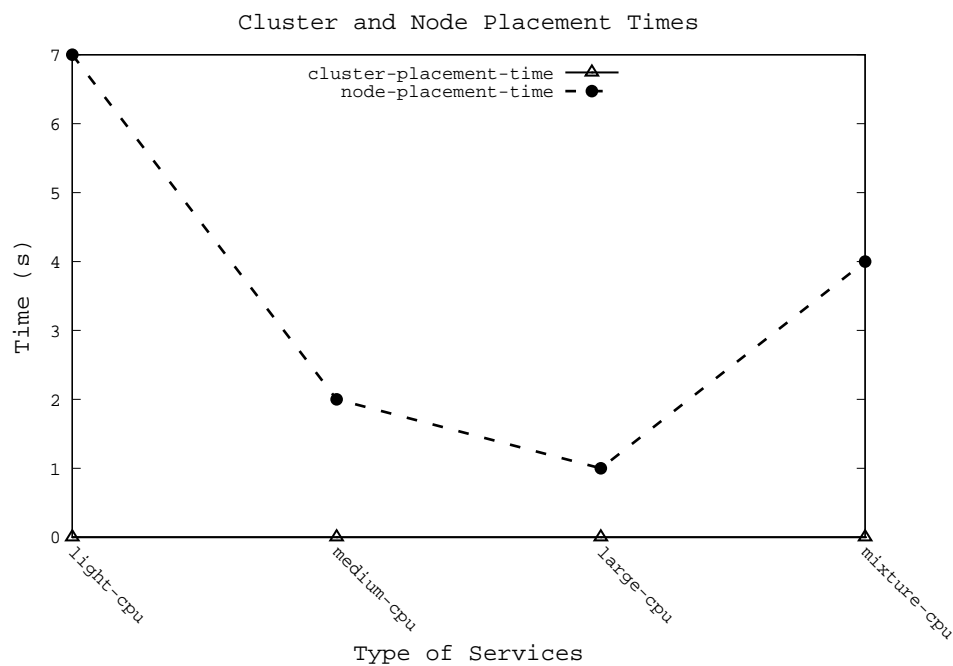


Fig. 1. Cluster and Node Placement Times

1.2

Listing 2. Cluster CPU Utilization

```
Cluster CPU Utilization (%)
clusters cluster-1 cluster-2 cluster-3
light-cpu 99,80 0,00 30,00
medium-cpu 100,00 38,60 97,10
large-cpu 100,00 36,40 98,40
mixture-cpu 99,90 41,00 98,00
```

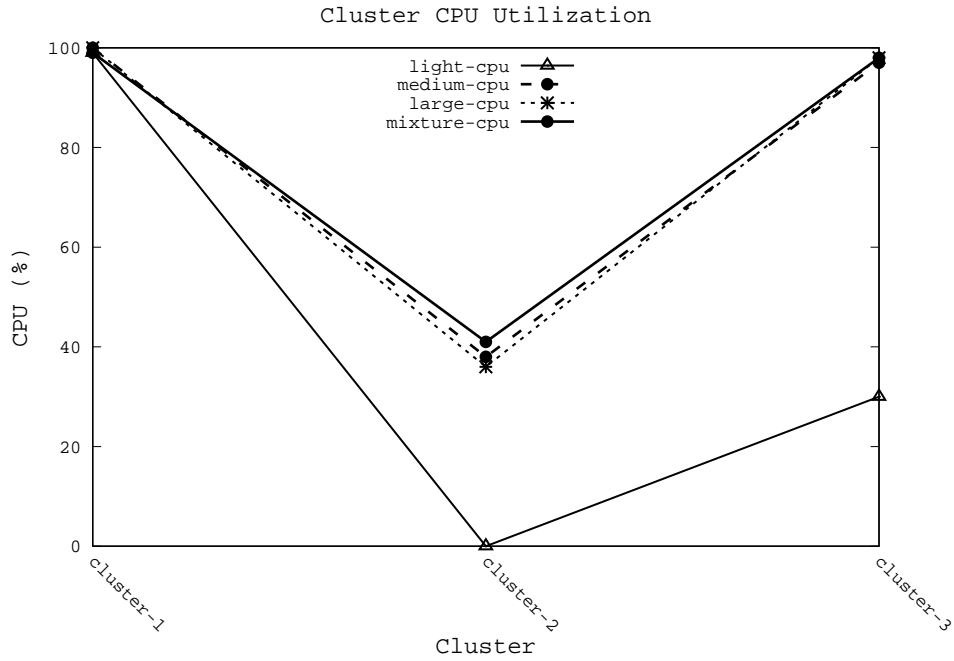


Fig. 2. Cluster CPU Utilization

1.3

Listing 3. Cluster Memory Utilization

Cluster Memory Utilization (%)	cluster-1	cluster-2	cluster-3
light-cpu	12,00	0,00	3,00
medium-cpu	1,00	0,00	1,00
large-cpu	0,00	0,00	0,00
mixture-cpu	9,00	0,00	1,00

1.4

Listing 4. Cluster Node Utilization

Cluster Node Utilization (%)	cluster-1	cluster-2	cluster-3
light-cpu	100,00	0,00	100,00
medium-cpu	100,00	100,00	100,00
large-cpu	100,00	100,00	100,00
mixture-cpu	100,00	100,00	100,00

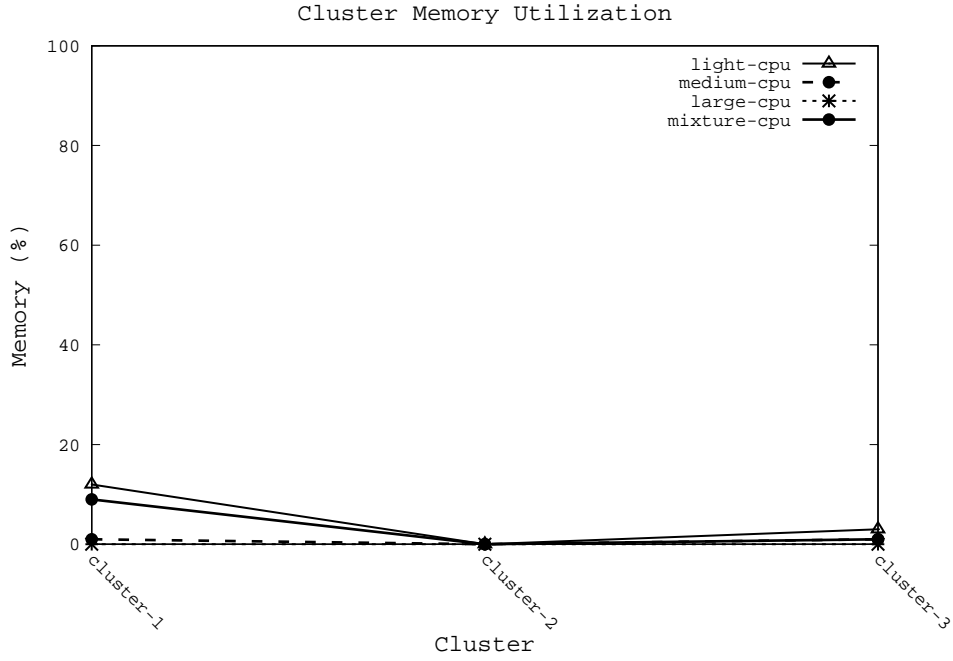


Fig. 3. Cluster Memory Utilization

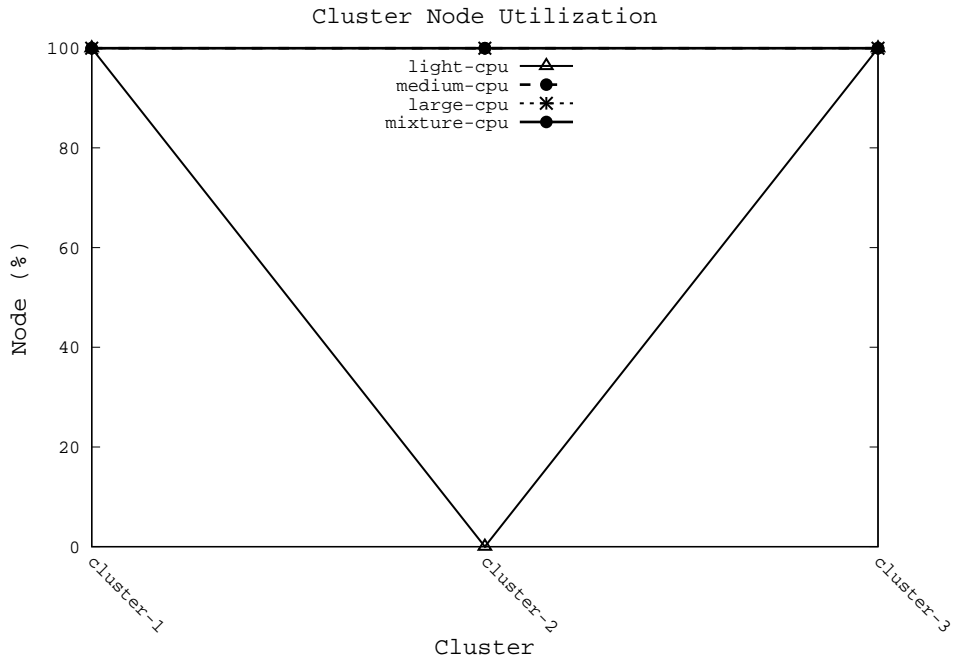


Fig. 4. Cluster Node Utilization

1.5

Listing 5. Node CPU Utilization
Node CPU Utilization (%)

nodes	cluster-1-node1	cluster-1-node2	cluster-2-node1	cluster-2-node2	cluster-2-node3	cluster-3-node1	cluster-3-node2	cluster-3-node3	cluster-3-node4
light-cpu	99,80	99,90	0,00	0,00	0,00	35,00	85,00	0,00	0,00
medium-cpu	100,00	100,00	100,00	17,50	0,00	99,70	99,70	99,60	90,90
large-cpu	100,00	100,00	99,90	10,00	0,00	99,90	99,90	99,90	94,80
mixture-cpu	99,90	100,00	100,00	25,00	0,00	99,80	99,90	93,00	100,00

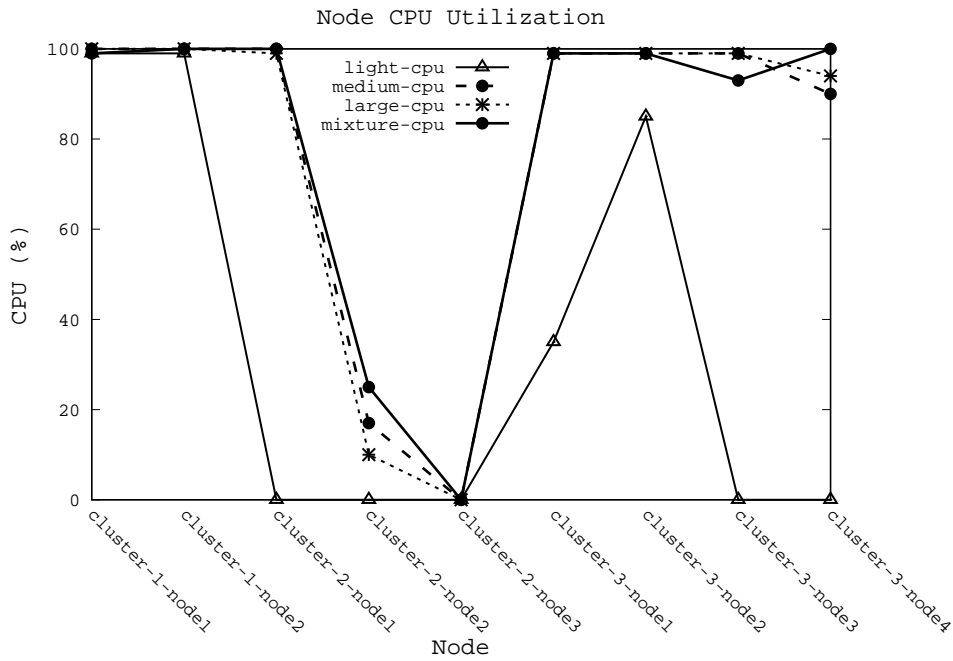


Fig. 5. Node CPU Utilization

1.6

Listing 6. Node Memory Utilization

Node Memory Utilization (%)									
nodes	cluster-1-node1	cluster-1-node2	cluster-2-node1	cluster-2-node2	cluster-2-node3	cluster-3-node1	cluster-3-node2	cluster-3-node3	cluster-3-node4
light-cpu	12,00	12,00	0,00	0,00	0,00	4,00	10,00	0,00	0,00
medium-cpu	1,00	1,00	1,00	0,00	0,00	1,00	1,00	1,00	1,00
large-cpu	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

mixture-cpu 6,00 12,00 0,00 0,00 0,00 0,00 1,00 3,00
0,00

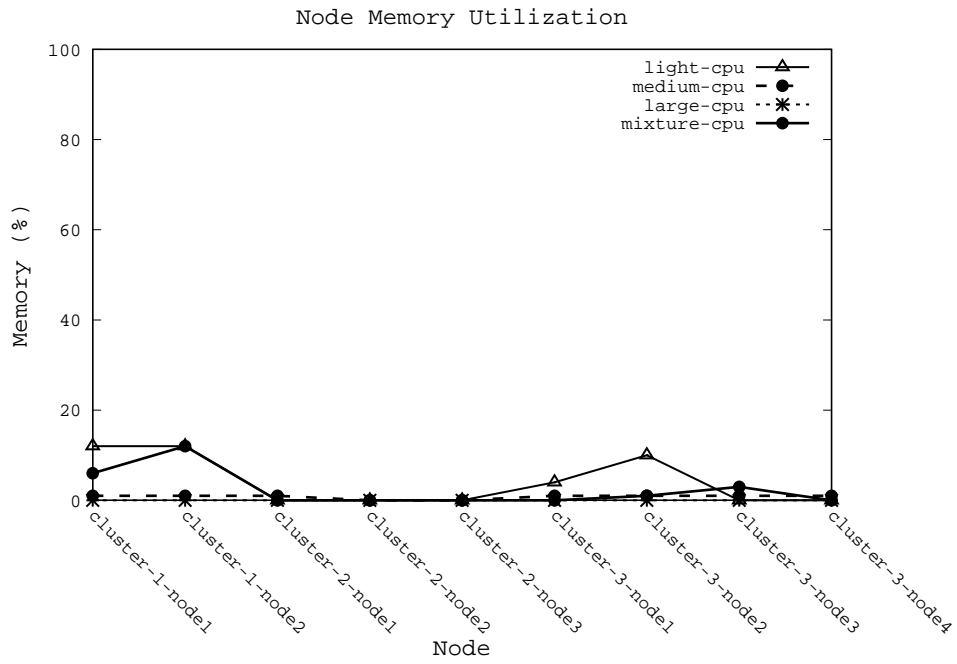


Fig. 6. Node Memory Utilization