

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-memory 0,00 2,70
medium-memory 0,00 2,90
large-memory 0,00 2,70
mixture-memory 0,00 2,70
```

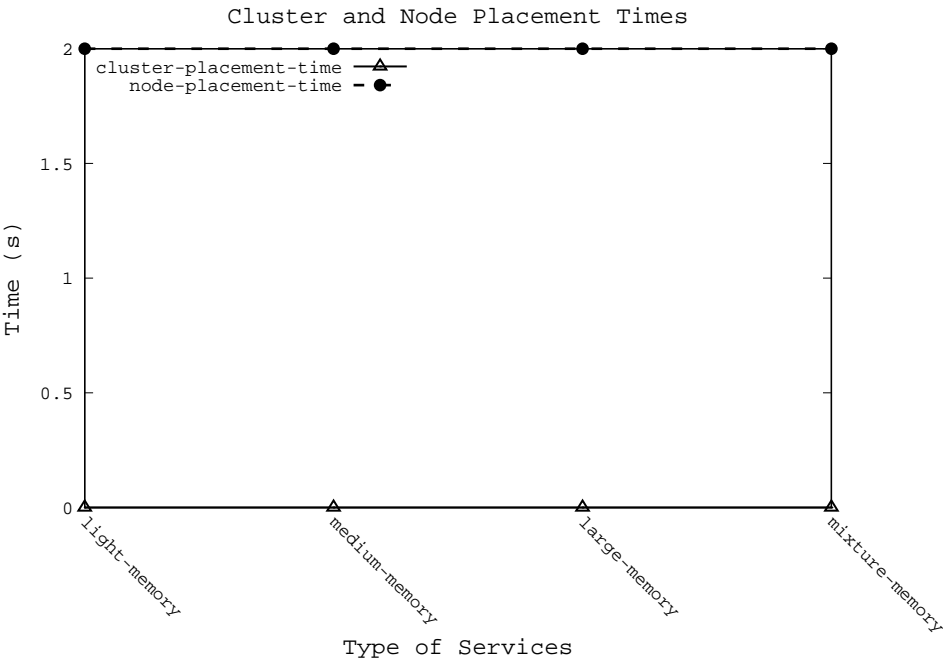


Fig. 1. Cluster and Node Placement Times

1.2

Listing 2. Cluster CPU Utilization

```
Cluster CPU Utilization (%)
clusters cluster-1 cluster-2 cluster-3
light-memory 100,00 36,20 98,40
medium-memory 100,00 35,40 98,50
large-memory 100,00 99,90 74,80
mixture-memory 100,00 38,60 97,20
```

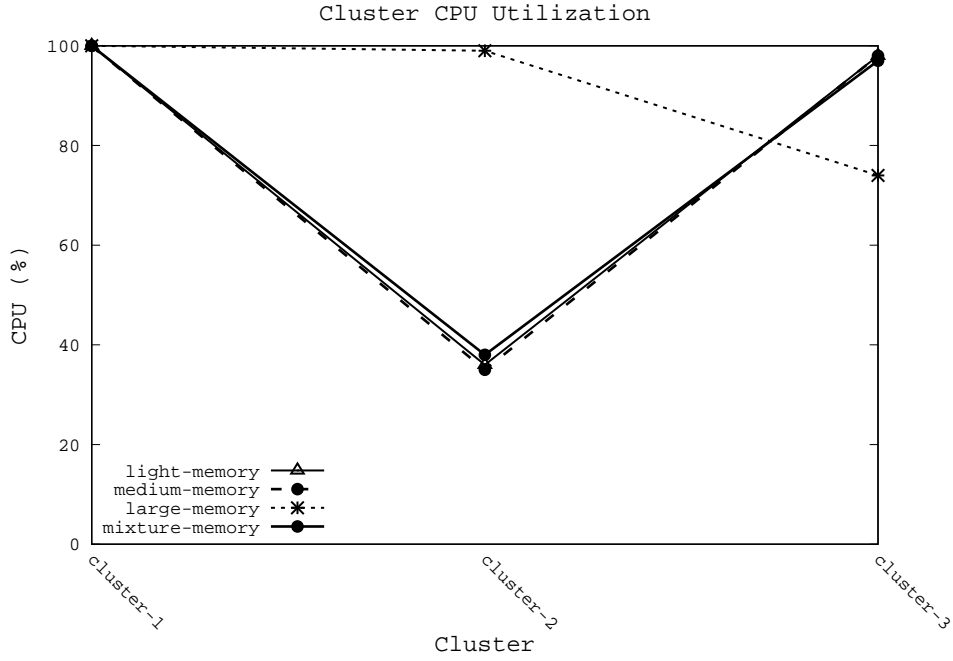


Fig. 2. Cluster CPU Utilization

1.3

Listing 3. Cluster Memory Utilization

```
Cluster Memory Utilization (%)
clusters cluster-1 cluster-2 cluster-3
light-memory 6,00 2,00 7,60
medium-memory 25,00 8,60 32,70
large-memory 100,00 100,00 100,00
mixture-memory 6,00 2,00 45,00
```

1.4

Listing 4. Cluster Node Utilization

```
Cluster Node Utilization (%)
clusters cluster-1 cluster-2 cluster-3
light-memory 100,00 100,00 100,00
medium-memory 100,00 100,00 100,00
large-memory 100,00 100,00 100,00
mixture-memory 100,00 100,00 100,00
```

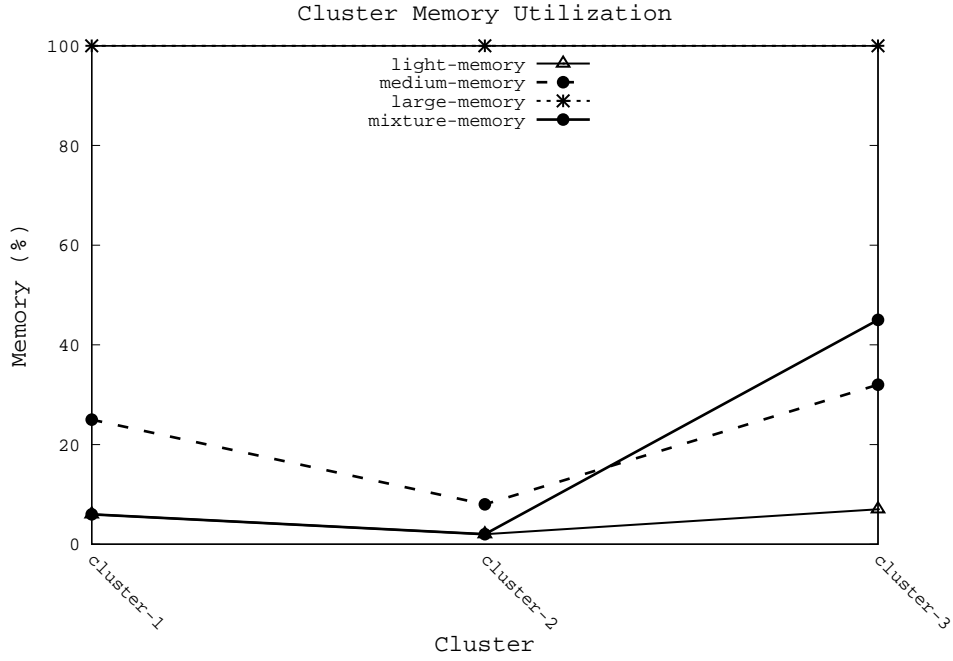


Fig. 3. Cluster Memory Utilization

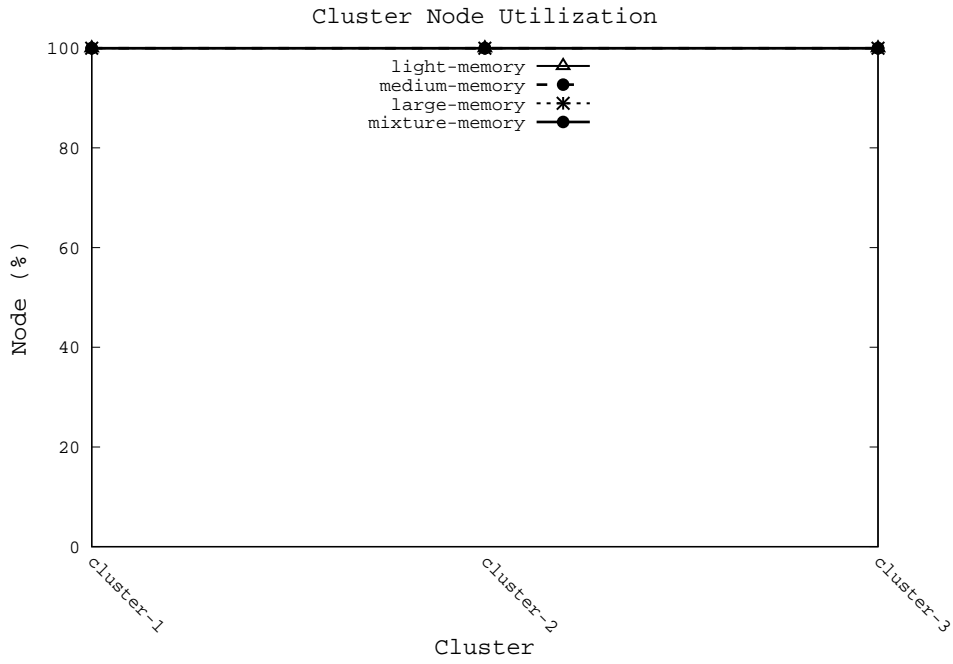


Fig. 4. Cluster Node Utilization

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-memory	100,00	100,00	100,00	10,00	0,00	99,90	99,80	100,00	94,80
medium-memory	100,00	100,00	100,00	7,50	0,00	99,70	99,90	99,70	96,10
large-memory	100,00	100,00	99,90	100,00	100,00	74,90	74,80	74,90	74,90
mixture-memory	100,00	100,00	99,80	17,50	0,00	99,90	100,00	99,70	90,80

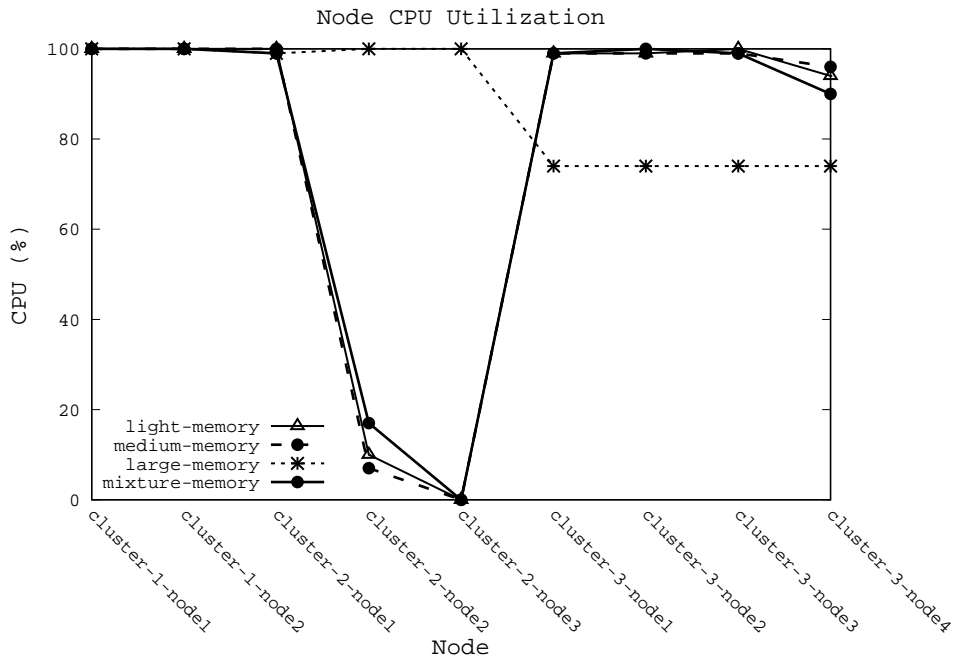


Fig. 5. Node CPU Utilization

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
light-memory	6,00	6,00	6,00	0,40	0,00	8,00	8,00	8,00
								7,60
medium-memory	25,00	25,00	25,00	1,80	0,00	33,00	33,00	33,00
								31,80

large-memory	100,00	100,00	100,00	100,00	100,00	100,00	100,00
	100,00	100,00	100,00				
mixture-memory	6,00	6,00	6,00	0,70	0,00	83,00	8,00
	83,00	7,30					

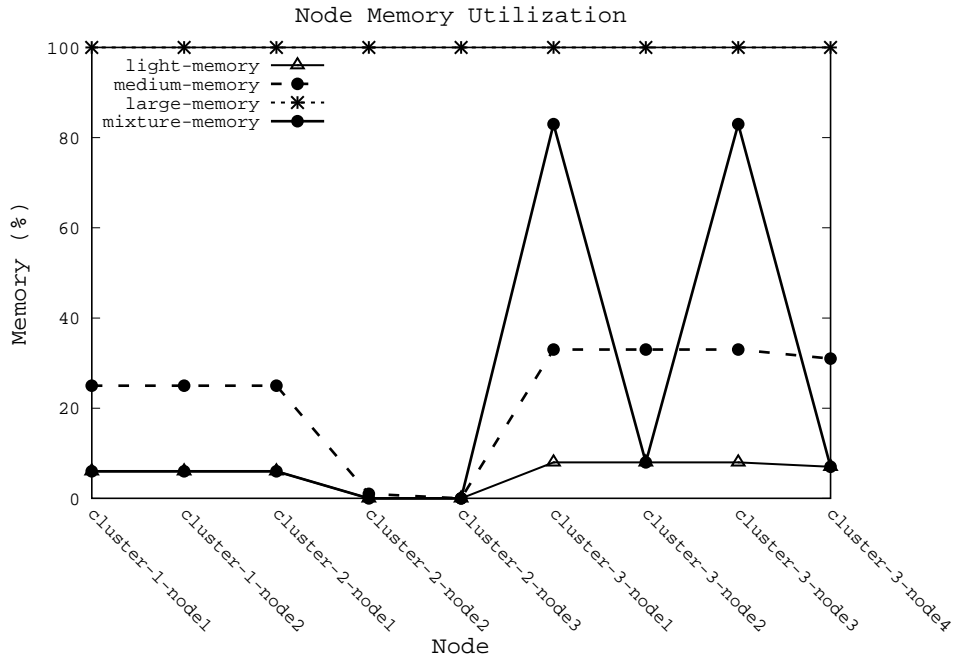


Fig. 6. Node Memory Utilization