

# 1 Plotting all figures

## 1.1

Listing 1. Cluster and Node Placement Times

	cluster-placement-time	node-placement-time
light-cpu	0,10	7,30
medium-cpu	0,00	2,50
large-cpu	0,10	1,40
mixture-cpu	0,00	3,90

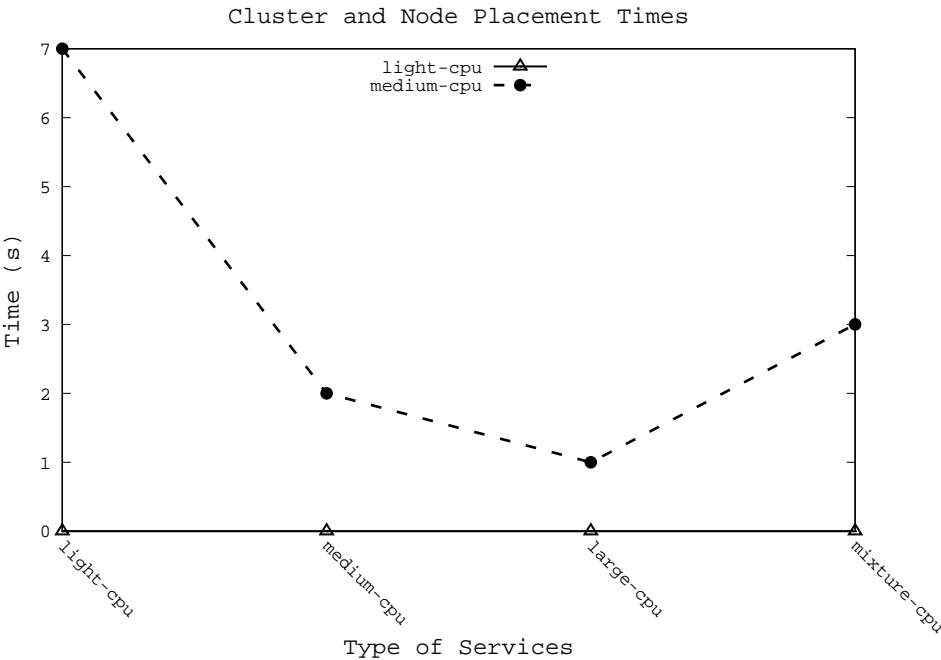


Fig. 1. Cluster and Node Placement Times

## 1.2

Listing 2. Cluster CPU Utilization

	cluster-1	cluster-2	cluster-3
light-cpu	100,00	0,00	31,20
medium-cpu	100,00	38,60	97,00
large-cpu	100,00	36,40	98,50
mixture-cpu	98,40	39,40	98,40

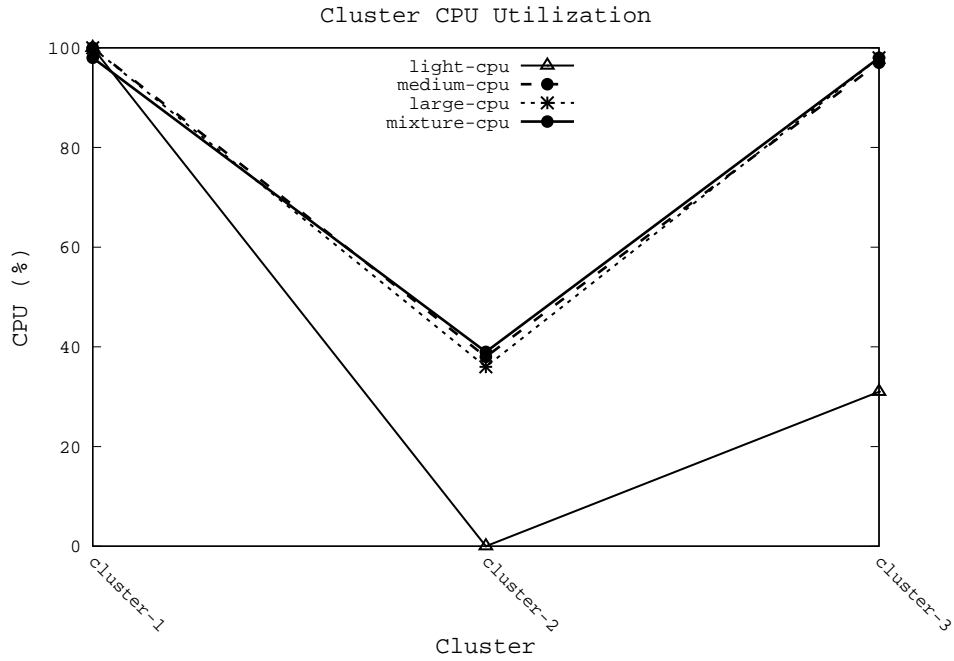


Fig. 2. Cluster CPU Utilization

1.3

Listing 3. Cluster Memory Utilization

Cluster Memory Utilization (%)	cluster-1	cluster-2	cluster-3
light-cpu	12,00	0,00	3,20
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

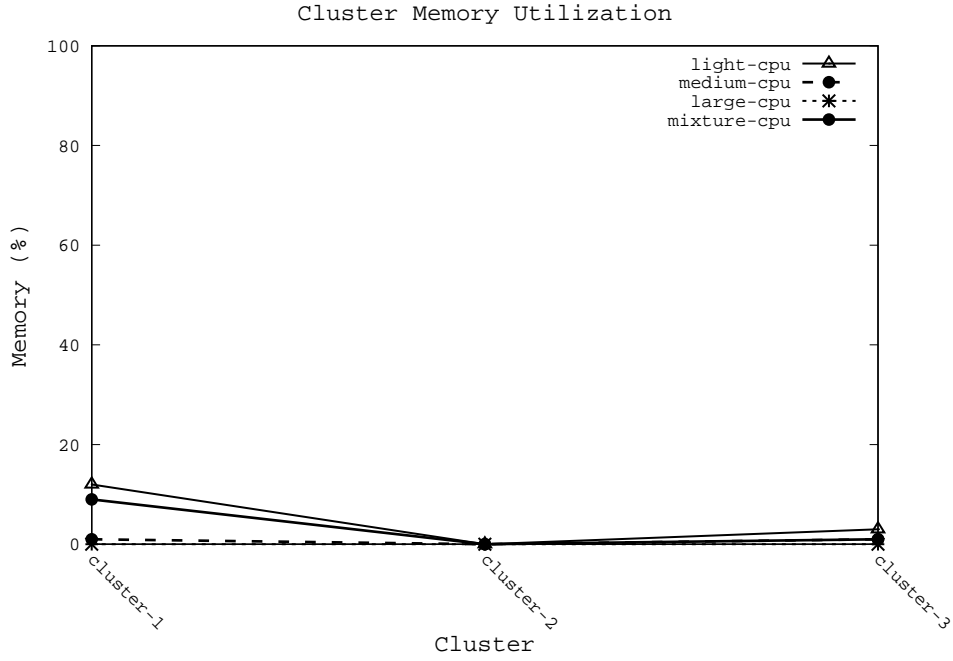


Fig. 3. Cluster Memory Utilization

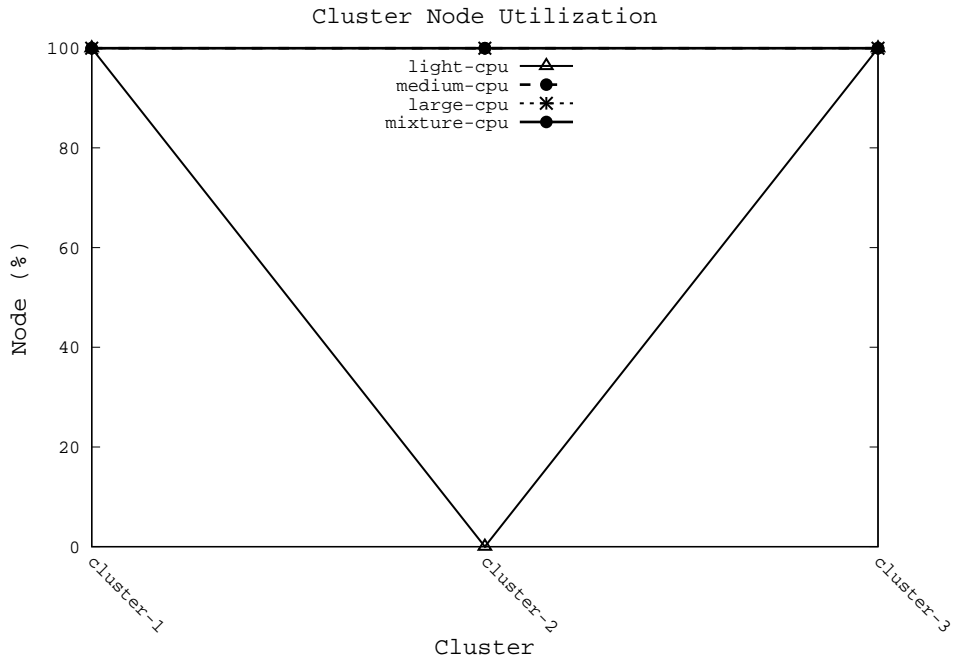


Fig. 4. Cluster Node Utilization

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	100,00	100,00	0,00	0,00	0,00	40,00	85,00	0,00	0,00
medium-cpu	100,00	100,00	100,00	17,50	0,00	99,80	99,80	99,90	90,70
large-cpu	100,00	100,00	100,00	10,00	0,00	100,00	99,60	100,00	94,80
mixture-cpu	100,00	97,20	100,00	19,80	0,00	100,00	99,60	95,20	99,80

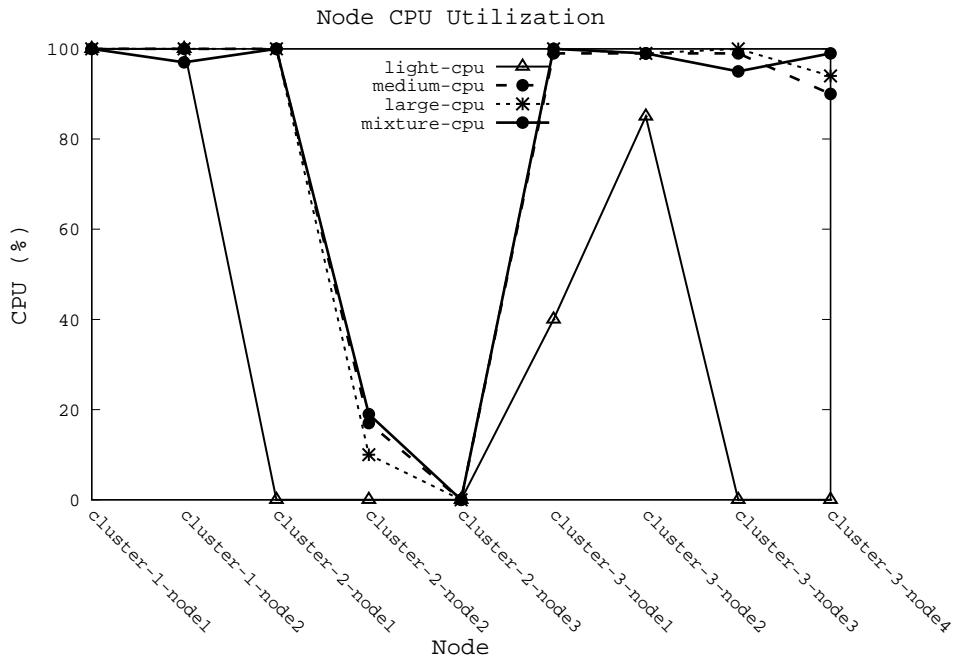


Fig. 5. Node CPU Utilization

## 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	cluster-3-node4
light-cpu	12,00	12,00	0,00	0,00	0,00	4,60	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 11,60 0,00 0,40 0,00 0,00 1,00 2,60  
0,00

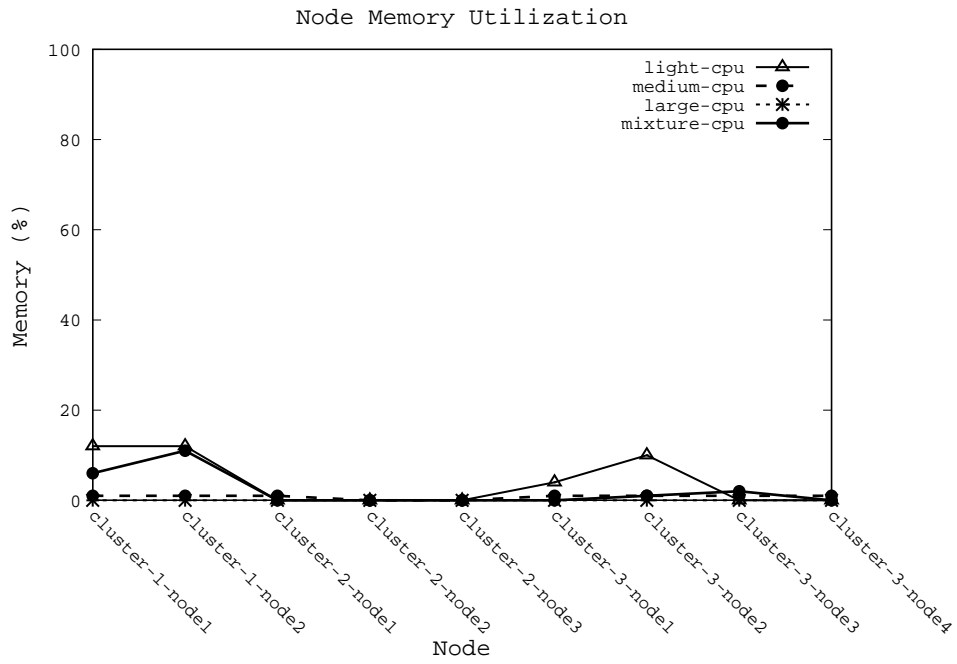


Fig. 6. Node Memory Utilization