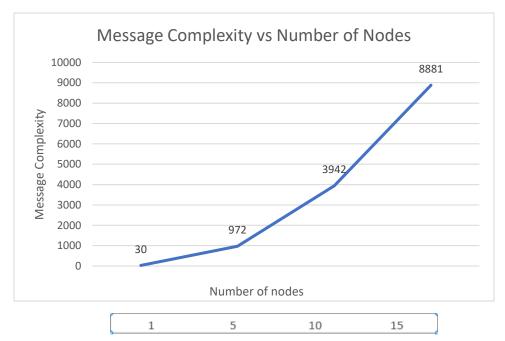
AOS Project 2 (Implementing Maekawa's Distributed Mutual Exclusion Protocol)

Abhishek M Patil Vinay NDK Vivek Nagalapura Ravindra

Results:

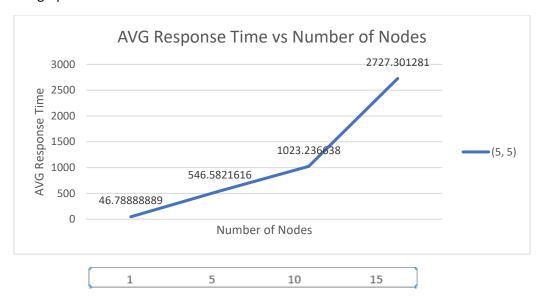
Message complexity vs No of Nodes:

Message complexity increases exponentially with increase in number of nodes. It is not dependent on inter-request delay or cs-execution time.

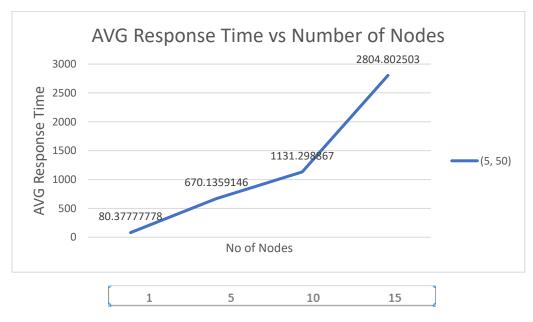


Avg Response Time vs No of Nodes:

Avg Response Time is calculated by taking the average of response times of all requests of all nodes. It also increases exponentially with increase in no of nodes since increasing the no of nodes increases the time taken by a node to satisfy a request. It increases with increase in cs-execution time as can be seen the graph.



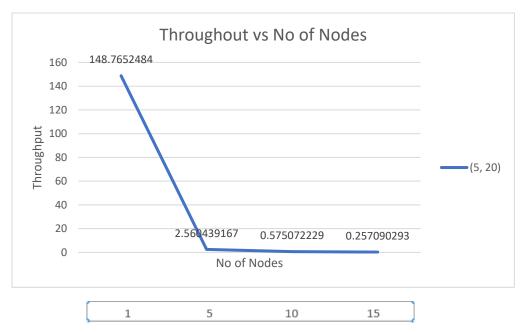
All time is in milliseconds. Here the legend (5,5) indicates the inter-request delay of 5ms and cs-execution time of 5ms respectively.



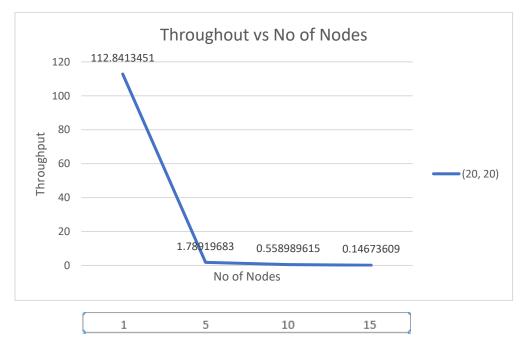
All time is in milliseconds. Here the legend (5,50) indicates the inter-request delay of 5ms and cs-execution time of 50ms respectively.

Throughput:

Throughput is defined by the number of requests satisfied per 10 seconds for all the nodes. It is calculated by taking the ratio of Total no of requests satisfied by Total time taken over all the requests of all nodes. It decreases with increase in number of nodes and decreases with increase in inter-request delay and cs-execution time.



All time is in milliseconds. Here the legend (5,20) indicates the inter-request delay of 5ms and cs-execution time of 20ms respectively.



All time is in milliseconds. Here the legend (20,20) indicates the inter-request delay of 20ms and cs-execution time of 20ms respectively.