

Result

Table 1 : Parameter values used in the simulation

Parameter	Average flow duration (μ)	Number of Nodes(N)	Simulation Time	Flow re-routing threshold time	Flow Rate	Packet Size	Idle Power	Prob. of having Link b/n 2 nodes
Value	20s	13	500s	$\mu/2$	2000 pkts	64bytes	200W	0.5

Flow re-routing threshold time is the minimum time that must have passed starting from the activation of a flow for the flow to be considered for re-routing.

For each lambda, five runs are made and the average is taken.

Figure 1 shows the variation of per flow power consumption as a function of flow arrival rate.

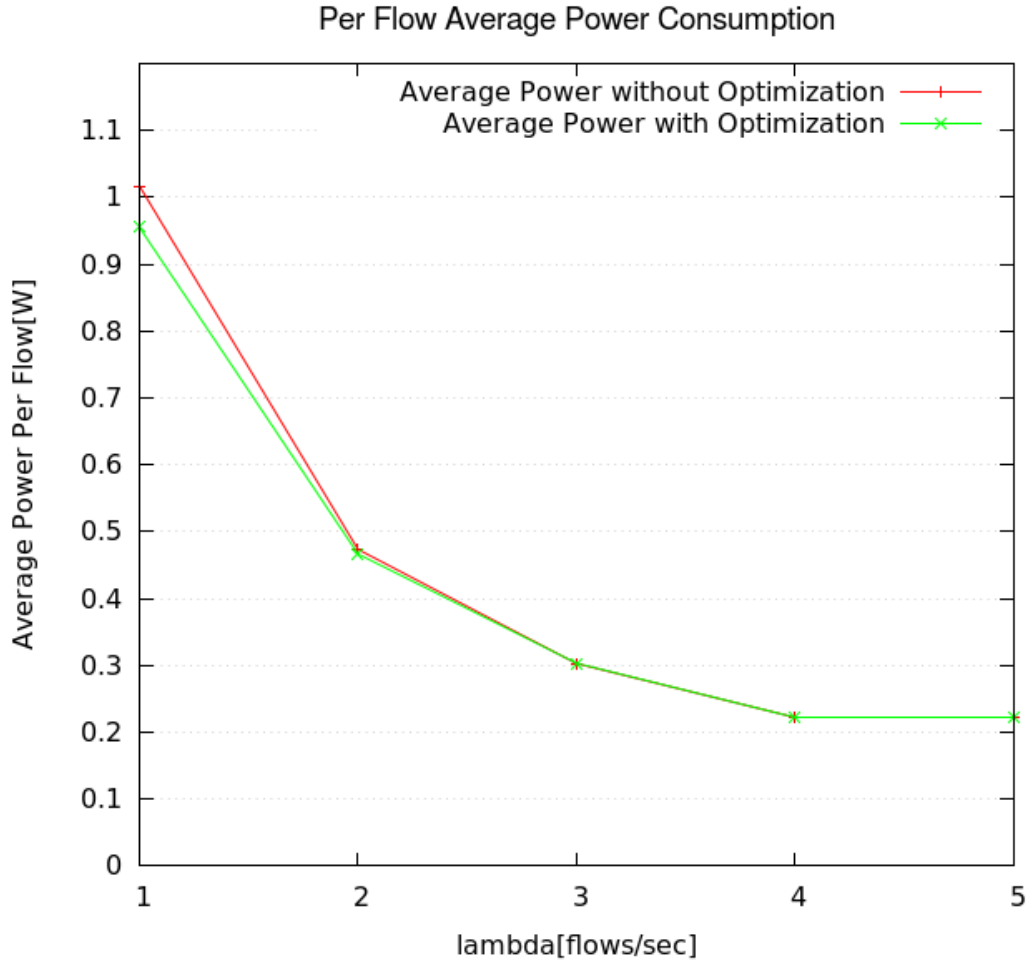


Figure 1: Average power consumption per flow

In the plot, it can be observed that the power consumption with Energy Efficient Routing algorithm is less at smaller flow arrival rate. As the flow arrival rate increases the the power consumption starts to be the same as that of the power consumption of the unoptimized open shortest path first routing algorithm.