**CHAPTER 5**

**CONCLUSION AND FUTURE WORK**

**5.1 CONCLUSION**

In this work , a novel method for load balancing and power management using modified bacterial foraging optimization algorithm is proposed. Bacterial Foraging Optimization Algorithm is a Nature Inspired Swarm Optimization algorithm. This methodology is tested using real time traces from Parallel Workloads Archive. The algorithm efficiently reduces the makespan time, the time average eco aware power cost of the system and the number of migrations involved. The algorithm has quick convergence and is easily scalable. It achieves **35%** better execution rates than the existing algorithm and reduces the number of migrations by **45%**.