Abstract

A design analysis and comparison of a product network generated from torus and hypercube networks known as torus embedded hypercube scalable interconnection network suitable for parallel computers is presented in this paper. It is shown here that with minor modifications in architecture of the existing mesh embedded hypercube interconnection network how good a torus embedded hypercube interconnection network could be. Also it has been proved with the computational results that the torus embedded hypercube interconnection network is highly scalable and more efficient in terms of communication.

Reference

- Hesham El-Rewini and Mostafa Abd-El-Barr, “Advanced Computer Architecture and

Index Terms

Computer Science Communication

Networks

Keywords

Hypercube network Torus network
Mesh embedded hypercube network
Scalability
Network parameters