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PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

SPACE SHUFFLE: A SCALABLE, FLEXIBLE, AND HIGH-BANDWIDTH DATA CENTER NETWORK

ABSTRACT

Data center applications require the network to be scalable and bandwidth-rich. Current data center network architectures often use rigid topologies to increase network bandwidth. A major limitation is that they can hardly support incremental network growth. Recent studies propose to use random interconnects to provide growth flexibility. However, routing on a random topology suffers from control and data plane scalability problems, because routing decisions require global information and forwarding state cannot be aggregated. In this paper, we design a novel flexible data center network architecture, Space Shuffle (S2), which applies greedy routing on multiple ring spaces to achieve high-throughput, scalability, and flexibility. The proposed greedy routing protocol of S2 effectively exploits the path diversity of densely connected topologies and enables key-based routing. Extensive experimental studies show that S2 provides high bisectional bandwidth and throughput, near-optimal routing path lengths, extremely small forwarding state, fairness among concurrent data flows, and resiliency to network failures.

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EXISTING SYSTEM:

Existing system is nothing but already have in our or doing project. In this session we discuss the construction of baseline models of existing systems. This activity relies on knowledge of the hardware, software, workload, and monitoring tools associated with the system under study.

DISADVANTAGES:

- ✚ **High-bandwidth:** Many applications of current data center networks are data-intensive and require substantial intranet work communication
- ✚ **Flexibility:** A data center network may change after its deployment.
- ✚ **Scalability:** Routing and forwarding in a data center network should rely on small forwarding state of switches and be scalable to large networks.

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PROPOSED SYSTEM:

Proposed system means you modified the particular pattern of doing project is called "proposed system". In proposed system, we overcome the drawback of existing system.

ADVANTAGE OF PROPOSED SYSTEM:

1. Our proposed system maintains finite shared buffers and forwarding tables.
2. Perfect load balancing and routing
3. Generates very little local traffic
4. Easy to cause network congestion
5. Achieve high-bandwidth, flexibility, and routing scalability

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS:

Processor	- Pentium –III
Speed	- 1.1 Ghz
RAM	- 256 MB(min)
Hard Disk	- 20 GB
Floppy Drive	- 1.44 MB
Key Board	- Standard Windows Keyboard
Mouse	- Two or Three Button Mouse
Monitor	- SVGA

SOFTWARE REQUIREMENTS:

Operating System	- Windows 7/8
Front End	- .NET
Tool	- Visual Studio 2008
Back-End	- SQL Server 2006

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