

Rukmini Devi Institute of Advanced Studies

Madhuban Chowk, Rohini, Delhi-110085

(Approved By AICTE & Affiliated With GGSIP University)

DOSSIER

On

Guest Lecture

On

“Grid Computing- Opportunities and Challenges”

On

January 23, 2017



S. No.	Particulars	Pg. No.
1.	Form- A : Proposal to organize an Event	2
2.	Form- B: Part I - Aim of the event Part II – Abstract Part III- Conclusion	3 3-5 6

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FORM A

Proposal:

- **Name of the event to be organized:** Guest Lecture on “Grid Computing – Opportunities & Challenges”
- **Date:** January 23, 2017
- **Time:** 12:00 pm – 01:50 pm
- **Venue:** Lecture Theater, RDIAS
- **Motivation for the activity:** The Guest Lecture was conducted to acquaint the students with the basics of grid computing and its opportunities and challenges.
- **Organized by:** MCA, RDIAS

FORM B

Part 1

Aim of the event:

Grid computing is a processor architecture that combines computer resources from various domains to reach a main objective. In grid computing, the computers on the network can work on a task together, thus functioning as a supercomputer. The aim of this session was to make students learn the application of grid computing and its challenges and opportunities.

Part 2

Abstract:

The session was conducted by Dr. U.S. Pandey, Associate Professor, School of Open Learning, Delhi University. The session included the following discussion points:-

- Grid computing
- Grid
- Need to harness computers
- Virtual organizations
- Crosses multiple administrative domains
- Distributed Computing
- Typical Cluster computing configuration
- Programming Clusters
- Grid Computing history
- Cloud computing using virtualized resources
- Computational Grid Applications

Firstly Sir explained about the concept of grid computing and power grid. Grid computing is a computer network in which each computer's resources are shared with every other computer in the system. Processing power, memory and data storage are all community resources that authorized users can tap into and leverage for specific tasks.

Crosses multiple administrative domains.

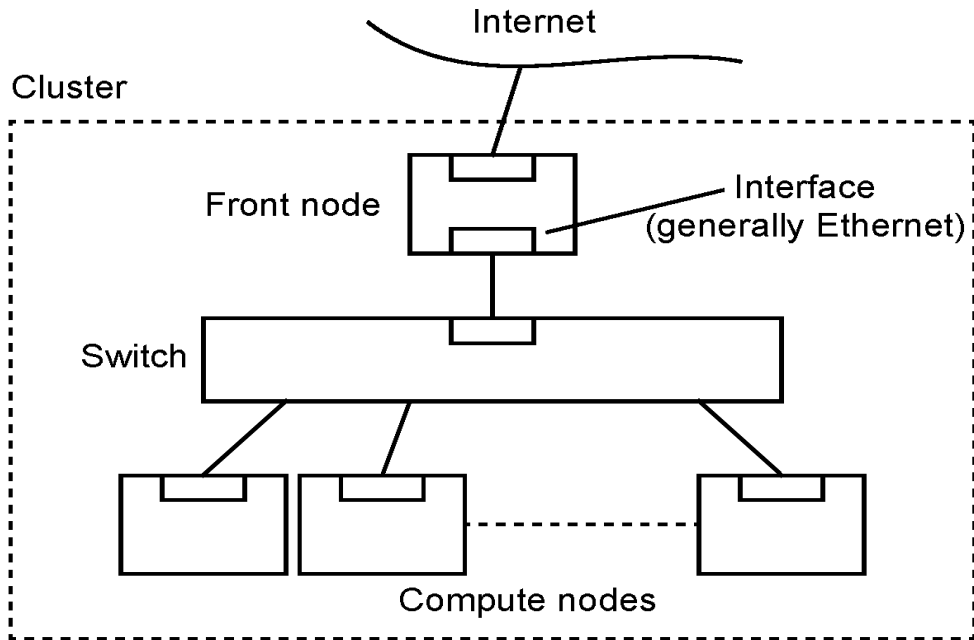
- Another hallmark of larger Grid computing projects.
- Resources being shared owned either by members of virtual organization or donated by others.
- Introduces challenging technical and social-political challenges.
- Requires true collaboration.

After explaining about grid computing, Sir discussed about history of distributed computing.

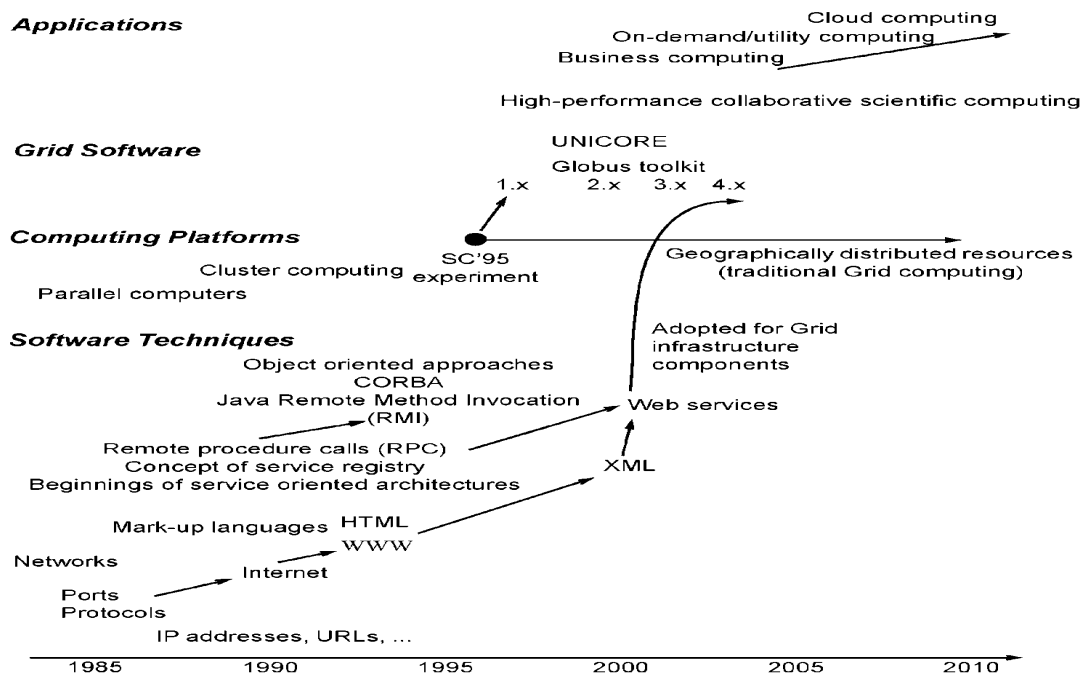
History of Distributed Computing

Certainly one can go back a long way to trace the history of distributed computing. Many people interested in connecting computers together for high performance computing. From connecting processors/computers together locally that began in earnest in the 1960s and 1970s, distributed computing now extends to connecting computers that are geographically distant - Grid computing.

Sir discussed about typical cluster computing configuration and programming clusters.



After that, at the end of the session Sir explained about key concept in the history of Grid Computing as follows:-



Part-3

Conclusion:

It is important for the students to be well acquainted with these applications and should be aware of the intricacies of implementing this technology. Keeping this in mind the lecture was organized for the students of MCA.

Students of MCA were enriched with the knowledge by attending the session and actively participated by curiously listening to the speaker. Some questions were raised by the students which were answered by the speaker in a very explicable manner.

Snapshots of the Lecture-



Presentation of bouquet by HOD-MCA, Ms. Simmi Chawla...!!!



Student Anchors introducing the guest ...!!!



Students and Faculty in the Guest Lecture....!!!



Presentation of Memento by the HOD-MCA, Ms. Simmi Chawla to the Guest Speaker of the Day....!!!