

Module-1**Distributed System Models and Enabling Technologies:**

Scalable Computing Over the Internet, Technologies for Network Based Systems, System Models for Distributed and Cloud Computing, Software Environments for Distributed Systems and Clouds, Performance, Security and Energy Efficiency.

Textbook 1: Chapter 1: 1.1 to 1.5

EVOLUTION OF DISTRIBUTED COMPUTING

- Grids enable access to shared computing power and storage capacity from your desktop.
- Clouds enable access to leased computing power and storage capacity from your desktop.
- Grids are an **open source** technology. Resource users and providers alike can understand and contribute to the management of their grid
- Clouds are a **proprietary** technology. Only the resource provider knows exactly how their cloud manages data, job queues, security requirements and so on.
- The concept of grids was proposed in 1995. The Open science grid (OSG) started in 1995 The EDG (European Data Grid) project began in 2001.
- In the late 1990's Oracle and EMC offered early private cloud solutions . However the term cloud computing didn't gain prominence until 2007. o high-performance computing (HPC) applications is no longer optimal for measuring system performance
- The emergence of computing clouds instead demands high-throughput computing (HTC) systems built with parallel and distributed computing technologies
- We have to upgrade data centers using fast servers, storage systems, and high-bandwidth networks.
- From 1950 to 1970, a handful of mainframes, including the IBM 360 and CDC 6400

1.1 SCALABLE COMPUTING OVER THE INTERNET

Instead of using a centralized computer to solve computational problems, a parallel and distributed computing system uses multiple computers to solve large-scale problems over the Internet. Thus, distributed computing becomes data-intensive and network-centric.

The Age of Internet Computing**The Platform Evolution**

- o From 1960 to 1980, lower-cost minicomputers such as the DEC PDP 11 and VAX Series
- o From 1970 to 1990, we saw widespread use of personal computers built with VLSI microprocessors.
- o From 1980 to 2000, massive numbers of portable computers and pervasive devices appeared in both wired and wireless applications
- o Since 1990, the use of both HPC and HTC systems hidden in clusters, grids, or Internet clouds has proliferated

Alc Cc Module 1 Answers

KJ Lindholm-Leary



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Military Review ,2013 **Understanding GMDSS** David Calcutt,Laurie Tetley,2012-09-10 This is the first book to cover the Global Marine Distress and Safety System GDMSS in a comprehensive and readable way GDMSS is now being developed to provide a new global communications and locating network to alert search and rescue services and all students of navigation or maritime technology and practising navigation officers will need to be trained in its use This accessible reference textbook provides students and new radio operators with all the knowledge necessary for a complete understanding of GMDSS and its related systems Professional Journal of the United States Army ,2013 **Warrior Medic** ,2011 **Software Process Improvement** Pekka Abrahamsson,Nathan Baddoo,Tiziana Margaria,Richard Messnarz,2007-09-13 This book constitutes the refereed proceeding of the 14th European Software Process Improvement Conference EuroSPI 2007 held in Potsdam Germany in September 2007 The papers are organized in topical sections on enforcement alignment tailoring There is focus on SME issues improvement analysis and empirical studies new avenues of SPI SPI methodologies as well as testing and reliability Satellite Communications David Calcutt,Laurie Tetley,1994-08-15 Satellites are increasingly used for global communications as well as for radio and television transmissions With the growth of mobile communications and of digital technology the use of satellite systems is set to expand substantially and already all students of electronics or communications engineering must study the subject This book steers a middle path between offering a basic understanding of the process of communication by satellite and the methodology used and the extensive mathematical analysis normally adopted in similar texts It presents the basic concepts using as much mathematical content as is necessary to make the process understandable The principles introduced are backed up by examples of actual applications showing how professional systems engineers have achieved the required system performance capabilities The practical systems chosen are representative of modern day applications and comprise an international communications system an international maritime system and a regional system **Publications Stocked by the Marine Corps (indexed by Distribution)**. ,1985 **Electronics Now** ,1996 **Commerce Business Daily** ,1998-11 Single-sideband Communications Handbook Harry D. Hooton,1962

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