



Chapter 2 Exercise Solutions

2.1 Provide three specific and contrasting examples of the increasing levels of heterogeneity experienced in contemporary distributed systems as defined in Section 2.2.

2.1 *Ans.*

Heterogeneity exists in many areas of a contemporary distributed system including in the areas of hardware, operating systems, networks and programming languages. We look at the first three as examples:

- In terms of hardware, distributed systems are increasingly heterogeneous featuring (typically Intel-based) PCs, smart phones, resource-limited sensor nodes, and resource-rich cluster computers or multi-core processors.
- In terms of operating systems, a distributed system may include computers running Windows, MAC OS, various flavours of Unix, and also more specialist operating systems for smart phones or sensor nodes.
- In terms of networks, the Internet is also increasingly heterogeneous embracing wireless technologies and ad hoc styles of networking.

2.2 What problems do you foresee in the direct coupling between communicating entities that is implicit in remote invocation approaches? Consequently, what advantages do you anticipate from a level of decoupling as offered by space and time uncoupling? Note: you might want to revisit this answer after reading Chapters 5 and 6.

2.2 *Ans.*

The client is intrinsically bound to the server and vice versa and this is inflexible in terms of dealing with failure, for example if the server fails and a backup server takes over managing requests. More generally, this level of coupling makes it hard to deal with change.

Clients and servers must exist at the same time and hence it is not possible to operate in more volatile environments when either party may be unavailable, for example disconnected in the case of a mobile node.

The benefits of space uncoupling is in providing more degrees of freedom in dealing with change, for example if a new server starts dealing with requests.

The benefit of time uncoupling is in allowing entities to communicate when entities may come and go.

2.3 Describe and illustrate the client-server architecture of one or more major Internet applications (for example the Web, email or networks).

Distributed Systems Concepts And Design Solution Manual

A Gutmann



Distributed Systems Concepts And Design Solution Manual:

Designing Reliable Distributed Systems Peter Csaba Ölveczky, 2018-02-12 This classroom tested textbook provides an accessible introduction to the design formal modeling and analysis of distributed computer systems The book uses Maude a rewriting logic based language and simulation and model checking tool which offers a simple and intuitive modeling formalism that is suitable for modeling distributed systems in an attractive object oriented and functional programming style Topics and features introduces classical algebraic specification and term rewriting theory including reasoning about termination confluence and equational properties covers object oriented modeling of distributed systems using rewriting logic as well as temporal logic to specify requirements that a system should satisfy provides a range of examples and case studies from different domains to help the reader to develop an intuitive understanding of distributed systems and their design challenges examples include classic distributed systems such as transport protocols cryptographic protocols and distributed transactions leader election and mutual execution algorithms contains a wealth of exercises including larger exercises suitable for course projects and supplies executable code and supplementary material at an associated website This self contained textbook is designed to support undergraduate courses on formal methods and distributed systems and will prove invaluable to any student seeking a reader friendly introduction to formal specification logics and inference systems and automated model checking techniques

Distributed Systems George F. Coulouris, Jean Dollimore, Tim Kindberg, 1994 The new edition of this bestselling title on Distributed Systems has been thoroughly revised throughout to reflect the state of the art in this rapidly developing field It emphasizes the principles used in the design and construction of distributed computer systems based on networks of workstations and server computers

Design of Smart Power Grid Renewable Energy Systems Ali Keyhani, 2016-04-27 Provides a systems approach to sustainable green energy production and contains analytical tools to aid in the design of renewable microgrids This book discusses the fundamental concepts of power grid integration on microgrids of green energy sources In each chapter the author presents a key engineering problem and then formulates a mathematical model of the problem followed by a simulation testbed in MATLAB highlighting solution steps The book builds its foundation on design of distributed generating system and design of PV generating plants by introducing design efficient smart residential PV microgrids These include energy monitoring systems smart devices building load estimation load classification and real time pricing The book presents basic concepts of phasor systems three phase systems transformers loads DC DC converters DC AC inverters and AC DC rectifiers which are all integrated into the design of microgrids for renewable energy as part of bulk interconnected power grids Other topics of discussion include the Newton formulation of power flow the Newton Raphson solution of a power flow problem the fast decoupled solution for power flow studies and short circuit calculations Focuses on the utilization of DC AC inverters as a three terminal element of power systems for the integration of renewable energy sources Presents basic concepts of phasor systems three phase systems

transformers loads DC DC converters DC AC inverters and AC DC rectifiers Contains problems at the end of each chapter Supplementary material includes a solutions manual and PowerPoint presentations for instructors Design of Smart Power Grid Renewable Energy Systems Second Edition is a textbook for undergraduate and graduate students in electric power systems engineering researchers and industry professionals ALI KEYHANI Ph D is a Professor in the Department of Electrical and Computer Engineering at The Ohio State University He is a Fellow of the IEEE and a recipient of The Ohio State University College of Engineering Research Award for 1989 1999 and 2003 He has worked for Columbus and Southern Electric Power Company Hewlett Packard Co Foster Wheeler Engineering and TRW He has performed research and consulting for American Electric Power TRW Control Liebert Delphi Automotive Systems General Electric General Motors and Ford Dr Keyhani has authored many articles in IEEE Transactions in energy conversion power electronics and power systems engineering *Computerworld* ,1980-11-24 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network *Operating System Concepts* Abraham Silberschatz,Peter B. Galvin,Greg Gagne,2005 This new seventh edition of the book has been brought up to date to include recent developments in operating systems such as Windows XP and the new small footprint operating systems that work in hand held devices such as the Palm and in cell phones Most of the book is on general purpose operating systems such as Linux and those from Microsoft But at the end of the book there are chapters on other types of operating such as Real Time Operating Systems and MultiMedia OS s Finally there are some chapters which the authors call case studies In these one chapter goes into a detailed discussion of Linux another chapter covers Windows XP Chapter 23 covers several early operating systems that helped to define the features that make up modern os s These include Atlas XDX 940 THE RC 4000 CTSS MULTICS OS 360 and MACH along with brief mentions of several others Note that this not a book on how to use operating systems this is a book on how operating systems are designed It is intended for upper level undergraduate students or first year graduate students **Distributed Systems** George F. Coulouris,Jean Dollimore,Tim Kindberg,Gordon Blair,2011 This book aims to provide an understanding of the principles on which the Internet and other distributed systems are based their architecture algorithms and design and how they meet the demands of contemporary distributed applications p xii *Distributed Systems Handbook* ,1978 **Dr. Dobb's Journal for the Experienced in Microcomputing** ,1984 **Operating Systems** William Stallings,2009 For a one semester undergraduate course in operating systems for computer science computer engineering and electrical engineering majors Winner of the 2009 Textbook Excellence Award from the Text and Academic Authors Association TAA Operating Systems Internals and Design Principles is a comprehensive and unified introduction to operating systems By using several innovative tools Stallings makes it possible to understand critical core concepts that can be fundamentally challenging The new edition

includes the implementation of web based animations to aid visual learners At key points in the book students are directed to view an animation and then are provided with assignments to alter the animation input and analyze the results The concepts are then enhanced and supported by end of chapter case studies of UNIX Linux and Windows Vista These provide students with a solid understanding of the key mechanisms of modern operating systems and the types of design tradeoffs and decisions involved in OS design Because they are embedded into the text as end of chapter material students are able to apply them right at the point of discussion This approach is equally useful as a basic reference and as an up to date survey of the state of the art

Dr. Dobb's Journal for Users of Small Computer Systems ,1984 **Proceedings** ,1986 **Bulletin**

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