Chapter 1 Solutions

1.1 **Personal computer**: Computer that emphasizes delivery of good performance to a single user at low cost and usually executes third-party software.
Server: Computer used for large workloads and usually accessed via a network.
Embedded computer: Computer designed to run one application or one set of related applications and integrated into a single system.

1.2 a. Performance via Pipelining
b. Dependability via Redundancy
c. Performance via Prediction
d. Make the Common Case Fast
e. Hierarchy of Memories
f. Performance via Parallelism
g. Use Abstraction to Simplify Design

1.3 The program is compiled into an assembly language program, which is itself assembled into a machine-language program.

1.4 a.

$$Min\ buffer = Total\ frame\ \dot{=}\ total\ number\ of\ colors\ \dot{=}\ (1280 * 1024) * 3 = 3932160\ \frac{bytes}{frame}\ \text{b.}$$

$$Min\ time\ for\ frame\ transmission = \frac{Min\ buffer\ [bits]}{speed\ of\ transmission}$$

$$\dot{=} \frac{3932160 * 8}{100\ mb} = \frac{31468208}{10000000} = 0.314\ seconds$$

1.5 a.

$$Performance = \frac{clock\ rate}{clock\ cycle\ per\ instruction} P1 = \frac{3 * 10^9}{1.5} = 2 * 10^9\ instructions/\ sec$$

$$P2 = \frac{2.5 * 10^9}{1} = 2.5 * 10^9\ instructions/sec\ P3 = \frac{4 * 10^9}{2.2} = 1.8 * 10^9\ instructions/sec\ \text{b.}$$

$$\dot{=}\ of\ cycles = clock\ rate * execution\ time\ P1\ cycles = 3 * 10^9 * 10 = 30 * 10^9$$

$$P2\ cycles = 2.5 * 10^9 * 10 = 25 * 10^9\ P3\ cycles = 4 * 10^9 * 10 = 40 * 10^9$$

c.

$$Number\ of\ instructions = \frac{\dot{=}\ of\ cycles}{clock\ cycle\ per\ instruction}\ No.\ instructions\ (P1) = \frac{30 * 10^9}{1.5} = 20 * 10^9$$

Computer Organization And Design Solutions Of Chapter

Henry C. Lucas

Computer Organization And Design Solutions Of Chapter:

Computer Organization and Design David A. Patterson,John L. Hennessy,2008-11-17 Computer Organization and Design Fourth Edition provides a new focus on the revolutionary change taking place in industry today the switch from uniprocessor to multicore microprocessors This new emphasis on parallelism is supported by updates reflecting the newest technologies with examples highlighting the latest processor designs benchmarking standards languages and tools As with previous editions a MIPS processor is the core used to present the fundamentals of hardware technologies assembly language computer arithmetic pipelining memory hierarchies and I O Along with its increased coverage of parallelism this new edition offers new content on Flash memory and virtual machines as well as a new and important appendix written by industry experts covering the emergence and importance of the modern GPU graphics processing unit the highly parallel highly multithreaded multiprocessor optimized for visual computing This book contains a new exercise paradigm that allows instructors to reconfigure the 600 exercises included in the book to generate new exercises and solutions of their own The companion CD provides a toolkit of simulators and compilers along with tutorials for using them as well as advanced content for further study and a search utility for finding content on the CD and in the printed text This text is designed for professional digital system designers programmers application developers and system software developers as well as undergraduate students in Computer Science Computer Engineering and Electrical Engineering courses in Computer Organization Computer Design A new exercise paradigm allows instructors to reconfigure the 600 exercises included in the book to easily generate new exercises and solutions of their own The companion CD provides a toolkit of simulators and compilers along with tutorials for using them as well as advanced content for further study and a search utility for finding content on the CD and in the printed text For the convenience of readers who have purchased an ebook edition or who may have misplaced the CD ROM all CD content is available as a download at http bit ly 12XinUx **Computing Handbook, Third Edition** Teofilo Gonzalez,Jorge Diaz-Herrera,Allen Tucker,2014-05-07 Computing Handbook Third Edition Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers the first volume of this popular handbook examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals Like the second volume this first volume describes what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and

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