



Course Presentation

A. Carini – Digital System Architectures

Motivation

Modern computer technology requires professionals of every computing specialty to understand both hardware and software.

Whether your primary interest is hardware or software, computer science or electrical engineering, the central ideas in computer organization and design are the same.



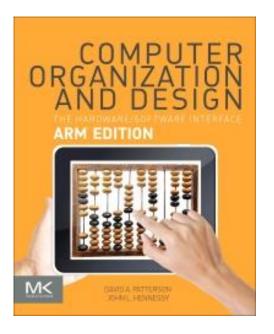
The program

- 1. Introduction
- 2. Computer Abstraction and Technology
- 3. The C Language
- 4. Instructions Language of the computer
- 5. Arithmetic in LEGv8
- 6. The Processor
- 7. Exploiting Memory Hierarchy

6 CFU Prof. Carini

3 CFU Prof. Trevisan





David A. Patterson and John L. Hennessy, Computer organization and design ARM edition: the hardware software interface, Morgan Kaufmann, 2016

Biblioteca scientifica:

Inventario HOA 21263

Collocazione 22c / 0220







Sarah Harris, David Harris,

Digital Design and Computer Architecture, ARM Edition

Morgan Kaufmann, 2016

Biblioteca scientifica:

Inventario H0A 22363

Collocazione 22c / 0221

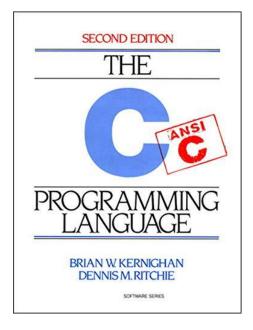
eBook: Accesso riservato agli utenti dell'Università di Trieste

Risorse online:

https://booksite.elsevier.com/9780128000564/







Kernighan Brian W., Ritchie Dennis *C Programming Language*, Pearson, 1988

Biblioteca scientifica:

Inventario DJA 3924

Collocazione 22m / 0048 A







Simone Buso Introduzione alle applicazioni industriali di MICROCONTROLLORI E DSP Società editrice Esculapio, 2018

Biblioteca scientifica:

Inventario HOA 20864

Collocazione 21a / 0229



Recommendation:

Subscribe to the Moodle channel of the course: 141IN - ARCHITETTURE DEI SISTEMI DIGITALI 2023

Course material will be distributed with Moodle.

Moreover, any communication about the lectures will be transmitted using the Announcements of the Moodle channel.



