

Computer Systems A Programmers Perspective Global Edition

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Computer Systems A Programmer's Perspective

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Computer Systems A Programmer's Perspective Randal E Bryant Carnegie Mellon University David R O'Hallaron Carnegie Mellon University and Intel Labs Prentice Hall Boston Columbus Indianapolis New York San Francisco Upper Saddle River Amsterdam Cape Town Dubai London Madrid Milan Munich Paris Montreal Toronto

Bryant and O'Hallaron, Computer Systems: A Programmer's ...

Bryant and O'Hallaron, Computer Systems: A Programmer's Perspective, Third Edition Approaches for Writing Concurrent Servers Allow server to handle multiple clients concurrently 1 Process-based Kernel automatically interleaves multiple logical flows Each flow has its own private address space 2 Event-based

Computer Systems: A Programmer's Perspective, Second Edition

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Computer Systems - Universidade do Minho

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Bryant and O'Hallaron, Computer Systems: A Programmer's Perspective, Third Edition •Numerical Form: $(-1)^s M 2^E$ •Sign bit s determines whether number is negative or positive •Significand M (mantissa) normally a fractional value in range $[10,20)$ •Exponent E weights value by power of two •Encoding •MSB s is sign bit s •exp field encodes E (but is not equal to E)

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Bryant and O'Hallaron, Computer Systems: A Programmer's Perspective, Third Edition Array Allocation •Basic Principle $T A[L]$; •Array of data type T

and length L •Contiguously allocated region of L * sizeof(T)bytes in memory char string[12];

The C Programming Language

Bryant and OHallaron, Computer Systems: A Programmers Perspective, Third Edition 3 Why C? Age has its advantages C has been around for ~40 years Easy to understand C is a great language for expressing common ideas in programming in a way that most people are comfortable with (procedural language)

Today: Machine Programming I: Basics

4 Bryant and O'Hallaron, Computer Systems: A Programmer's Perspective, Third Edition 19 Disassembled Disassembling Object Code Disassembler objdump -d sum Useful tool for examining object code Analyzes bit pattern of series of instructions Produces approximate rendition of assembly code Can be run on either aout(complete executable) or ofile

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