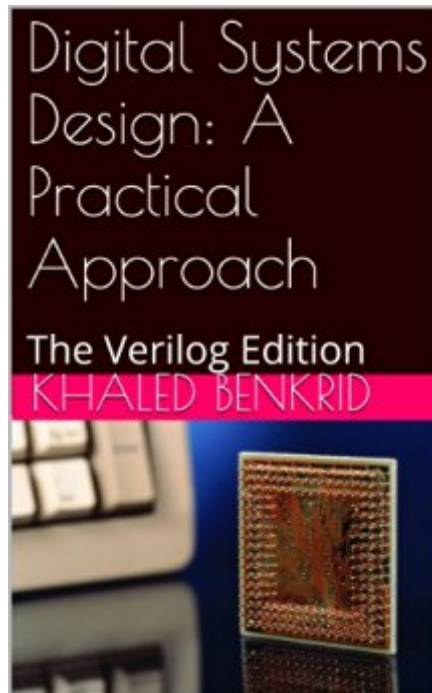


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Digital Systems Design: A Practical Approach: The Verilog Edition



Synopsis

This e-book explains and illustrates how to develop hardware-software digital systems from high level functional specifications and prototype them on to FPGA hardware using standard hardware description and software programming languages. The demonstrator system is based on a simple 8-bit microprocessor (to be designed in Verilog from an instruction set architecture description) with a number of peripherals (mouse, VGA and Infra-red transmitter). The microprocessor will be programmed in Assembly. An Assembler that takes Assembly code and automatically generates binary code is developed using the Flex and Bison tools.

Book Information

File Size: 4336 KB

Print Length: 95 pages

Publisher: Khaled Benkrid (April 11, 2014)

Publication Date: April 11, 2014

Sold by: Digital Services LLC

Language: English

ASIN: B00JNC46WY

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #876,821 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #95

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