1. Record Nr. UNINA9910139239003321

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Titolo	Assembly language programming [[electronic resource]] : ARM Cortex-M3 / / Vincent Mahout
Pubbl/distr/stampa	London, : ISTE Ltd. Hoboken, N.J., : John Wiley & Sons, c2012
ISBN	1-118-56212-7 1-299-31584-4 1-118-56597-5
Descrizione fisica	1 online resource (258 p.)
Collana	ISTE
Disciplina	005.2
Soggetti	Embedded computer systems Microprocessors Assembler language (Computer program language)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 239) and index.
Nota di contenuto	Overview of Cortex-M3 architecture -- The core of Cortex-M3 -- The proper use of assembly directives -- Operands of instructions -- Instruction set -- Algorithmic and data structures -- Internal modularity -- managing exceptions -- From listing to executable : external modularity.
Sommario/riassunto	ARM designs the cores of microcontrollers which equip most "embedded systems" based on 32-bit processors. Cortex M3 is one of these designs, recently developed by ARM with microcontroller applications in mind. To conceive a particularly optimized piece of software (as is often the case in the world of embedded systems) it is often necessary to know how to program in an assembly language.This book explains the basics of programming in an assembly language, while being based on the architecture of Cortex M3 in detail and developing many examples.It is written for people who have never pr