

## Introduction

This programming manual provides information for application and system-level software developers. It gives a full description of the STM32F3xxx and F4xxx Cortex™-M4 processor programming model, instruction set and core peripherals.

The STM32F3xxx and F4xxx Cortex™-M4 processor is a high performance 32-bit processor designed for the microcontroller market. It offers significant benefits to developers, including:

- Outstanding processing performance combined with fast interrupt handling
- Enhanced system debug with extensive breakpoint and trace capabilities
- Efficient processor core, system and memories
- Ultra-low power consumption with integrated sleep modes
- Platform security

This programming manual applies to the products and tools listed in [Table 1](#).

**Table 1. Applicable products and tools**

| Type             | Part numbers  |
|------------------|---|
| Microcontrollers | STM32F3 Analog & DSP<br>STM32F3xxx<br>STM32F4 Hi-Performance & DSP<br>STM32F4xxx          |
| Evaluation tools | STM32F3DISCOVERY<br>STM32F4DISCOVERY<br>STM32303C-EVAL<br>STM32373C-EVAL<br>STM3240G-EVAL |

Related documents for further reading on STM32F4xxx and STM32F3xxx implementations are available from the STMicroelectronics web site (<http://www.st.com>):

- STM32F3xxx, STM32F40x and STM32F41x datasheets
- STM32F40x and STM32F41x reference manual (RM0090)
- STM32F37x/38x and STM32F30x/31xx reference manuals (RM0313 and RM00316)

# Programming Manual

**K Morrison**



## **Programming Manual:**

Power Programming with RPC John Bloomer,1992-02 Computer Systems Organization Computer Communication Networks    **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1972    **X Toolkit Intrinsics Ref Man R5** David Flanagan,1992-08 The X Toolkit Intrinsics Reference Manual is a complete programmer s reference for the X Toolkit It provides reference pages for each of the Xt functions as well as the widget classes defined by Xt and the Athena widgets This volume is based on Xt documentation from the X Consortium and has been re edited reorganized and expanded Contents include Reference pages for each of the Xt Intrinsics and macros organized alphabetically for ease of use Reference pages for the interface definitions of functions registered using other Xt functions Reference pages for the Core Composite and Constraint widget methods Reference pages for the Object RectObj Core Composite Constraint and Shell widget classes defined by Xt Reference pages for Athena widget classes Reference pages for Xt related Xmu functions Permuted index Many appendices and quick reference aids The third edition of Volume 5 has been completely revised In addition to covering Release 4 and Release 5 of X all the man pages have been completely rewritten for clarity and ease of use and new examples and descriptions have been added throughout the book This manual is a companion to Volume 4M X Toolkit Intrinsics Programming Manual    **Programming Manual for the National Model 102-D General Purpose Computer** National Cash Register Company,1955    **Essential SNMP** Douglas R. Mauro, Kevin James Schmidt, Kevin J. Schmidt,2001 A practical introduction to SNMP for system network administrators Starts with the basics of SNMP how it works and provides the technical background to use it effectively    *Manual of Activities and War Program for the Girls of America ...* Camp Fire Girls,1918    **Starbase Radiosity and Ray Tracing Programmer's Manual** ,1991    *Running Weblogs with Slash* Chromatic, Brian Aker, Dave Krieger,2002 This is written for system administrators who may not have the time to learn about Slash by reading the source code It collects all the current Slash knowledge from the code Website and mailing lists and organizes it into a coherent package    *ADO ActiveX Data Objects* Jason T. Roff,2001 The architecture of ADO ActiveX Data Objects Microsoft s newest form of database communication is simple concise and efficient This indispensable reference takes a comprehensive look at every object collection method and property of ADO for developers who want to get a leg up on this technology    Official Program and Guide of the National Educational Association ,1898    **Basic** ,1966    Standard Fortran Programming Manual National Computing Centre Limited,1970    **Manuals on Chamber of Commerce Procedure, Technique and Ideals ...** American City Bureau,1921    **Programming the IBM 1620** Clarence B. Germain,1965 A first semester coursebook for learning the IBM 1620 and digital computer programming    **Official Program of the National Educational Association. Annual Convention ...** National Education Association of the United States,1902    Teacher's Manual for Work Books in Citizenship Training for Children ... of the Elementary School Walter Lansing Collins,1928    **LabVIEW Graphical Programming** Gary W. Johnson, Richard Jennings,2006-08-07

LabVIEW is an award winning programming language that allows engineers to create virtual instruments on their desktop. This new edition details the powerful features of LabVIEW 8.0. Written in a highly accessible and readable style, LabVIEW Graphical Programming illustrates basic LabVIEW programming techniques building up to advanced programming concepts. New to this edition is study material for the CLAD and CLD exams.

**Manual for Leaders, Pioneers** Young Men's Christian Associations of North America. International Committee. Boys' Work Division, 1920

**The Massachusetts register**, 1991-09-27

**MIMIC Programming Manual** Frederick J. Sansom, 1967. The report is intended to serve as a self-teaching and working manual for the MIMIC computer program that provides digital solutions on an IBM 7090/7094 computer for systems of ordinary differential equations. MIMIC is the successor to MIDAS Modified Integration Digital Analog Simulator. It is considerably more powerful, versatile, and efficient while retaining the basic simplicity of its predecessor. The program is intended for a wide range of users from the engineer with no prior knowledge of digital programming to the sophisticated digital programmer faced with the requirement for obtaining solutions to mathematical problems of this type. The manual contains complete instructions for reducing the given equations to MIMIC language, handling input and output of data, and detailed explanations profusely illustrated by examples of the use of the basic MIMIC functions. Appendices contain a tabulation of all standard MIMIC functions in a compact summary form, five completely solved sample problems, and a description of some aspects of the MIMIC processor.

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