



## COBOL: From Micro to Mainframe: Fujitsu Version (3rd Edition)

By Robert T. Grauer, Carol Vasquez Villar, Arthur R. Buss, Robert Grauer, Arthur Buss

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For a one or two semester introductory COBOL course running on either a PC or mainframe. This machine independent introduction covers all of the basic COBOL elements and special features, as well as providing an introduction to using the Fujitsu compiler. This book includes a CD-ROM containing the Fujitsu 3.0 COBOL Compiler FREE with every text.



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## **Editorial Review**

From the Inside Flap

Preface

The Fujitsu Version of COBOL: From Micro to Mainframe, Third Edition parallels our earlier work, but has been updated to support Fujitsu COBOL Version 4.0. All listings in the text have been modified for the new compiler, especially those listings pertaining to screen I/O. We have added an extensive appendix with supporting documentation and hands-on exercises that describe how to use the new software to full advantage. The set of student programming projects has also been thoroughly revised. As in the previous edition, the Fujitsu software is provided with the text at no additional cost. (The text may also be ordered with one of two compilers from Micro Focus, Net Express COBOL or Personal COBOL, but at an additional cost.)

The Fujitsu version is supported by our Web site at [prenhall/grauer](http://prenhall/grauer). Students can download the practice files and PowerPoint lectures as before, but now have access to an online studyguide that provides an interactive review on a chapterby-chapter basis. Each chapter contains a variety of short answer questions that can be taken for self-evaluation or e-mailed to instructors.

The Fujitsu Version of COBOL: From Micro to Mainframe includes all subjects normally covered in the one-year COBOL sequence. The scope is extensive, ranging from an introduction to COBOL, to maintaining sequential files and non-sequential files, to object-oriented COBOL, to linking COBOL programs and Visual Basic.

### **Benefits and Features**

Both the new Fujitsu version, and the earlier Micro Focus version, on which it is based, respond to the requests of students and instructors to provide access to Windows-based tools, while maintaining the proven approach to teaching COBOL. Its many features include: Appendix A provides extensive coverage of the Fujitsu compiler through a series of hands-on exercises. Students are shown how to create and edit COBOL programs, how to compile, link, and edit a program, and how to use the debugging facility. A new chapter (Chapter 19) on the Y2K problem discusses the sources of the problem, and techniques to correct it. The chapter also provides a list of Web sites to obtain further information. Another new chapter (Chapter 20) demonstrates the concepts of object-oriented COBOL. This new approach to COBOL promises to be a way for companies to maintain the value of their legacy COBOL programs, while still being able to use the benefits of object-oriented programming. Appendix B shows how Visual Basic can be used to create Windows-based user interfaces for COBOL programs. Coverage of COBOL 2002 and intrinsic functions has been added in Appendix E. The 1989 extensions to COBOL 85 allow the use of predefined functions that had been missing in COBOL. This appendix also discusses the changes anticipated in COBOL 2002. Appendix G, on student programming projects has been thoroughly revised. Many of the projects are continued from one chapter to the next, enabling students to experience system development and programming maintenance. Immediate entry into COBOL programming, beginning in Chapter I. Programming is learned by doing, and the book has students writing a complete program from the very beginning. Over 30 illustrative COBOL programs reinforce the discussion in the text and serve as both pedagogical aids and subsequent reference material. Every program is presented in a uniform and detailed format, including program narrative, record layouts, report layouts, test data, and processing specifications.

A thorough discussion of structured methodology, hierarchy charts, pseudocode, and topdown testing is presented in Chapter 3 and followed throughout the text. Students learn the proper way to develop programs early on and follow the procedure throughout the text. An enhanced Web site (prenha/grauer) from where students can download the COBOL listings in the text, data files for student projects, and PowerPoint lectures. The availability of the sample listings enables students to reproduce and/or modify any of the programs without the tedium of data entry and further enhances the learning experience. The Web site also provides access to an online study guide containing review questions for every chapter. An abundance of short-answer (true-false, multiple choice and fill-in-the blank) questions, COBOL problems, and programming projects for every chapter, with answers to the oddnumbered questions provided in Appendix F. Programming tips, dispersed throughout the text, which go beyond the syntactical rules of COBOL, and suggest stylistic considerations to make programs easier to read and maintain. Extensive use of graphic aids, featuring a two-color presentation, with annotated figures to further clarify the presentation. System concept presentation at the beginning of most chapters, as COBOL instruction has come to require additional material beyond the language itself. There are detailed discussions of control breaks, data validation, techniques for table lookups and initialization, storing, the balance line algorithm for file maintenance and the organization of indexed files.

## Software and Supplements

The Fujitsu Version of COBOL: From Micro to Mainframe, Third Edition is bundled with a free copy of Version 4.0 of the Fujitsu COBOL compiler and includes the associated documentation in the text. The Fujitsu version may also be ordered with one of two Micro Focus compilers. For more information please see our Web site (prenhall/grauer).

Instructors may also obtain the Instructor's Resource CD (ISBN# 0-13-088457X) from their local Prentice Hall representative. The CD contains the Instructor Manual in Word format, solutions to programming projects, and Prentice Hall Testing software. The latter is based on technology developed by Engineering Software Associates, Inc. (EAS), Prentice Hall Custom Test allows the educator to create and tailor the exam to their own needs.

## From the Back Cover

The text includes additional chapters on the Year 2000 problem, structured programming and design, debugging, subprograms, table processing, sorting, screen I/O, sequential file maintenance, indexed files, and object-oriented COBOL. Programming tips are provided throughout that go beyond the syntactical rules of COBOL in order to make programs easier to maintain and more efficient to run. The Fujitsu version teaches programming as it is practiced in the real world with sample projects that reflect Year 2000 considerations.

- NEW-Includes the new Fujitsu 4.0 software that includes the COBOL compiler, editor, and project manager
- NEW-Describes fully the use of the Fujitsu software in a new appendix
- NEW-Updates all listings in the text, especially those on screen processing, to reflect features in the new Fujitsu software
- NEW-Shows how Visual Basic can be used to create Windows interfaces for COBOL programs
- REVISED-Details students projects to reflect Year 2000 considerations

The sample data files of the programs listed in the book are available from [www.prenhall.com/grauer\\_cobol](http://www.prenhall.com/grauer_cobol)

## About the Author

**DR. ROBERT T. GRAUER** is an Associate Professor in the Department of Computer Information Systems at the University of Miami, where he was honored with the Outstanding Teacher Award in the School of

Business. A prolific author, known for his unparalleled pedagogy, reader-friendly writing style, and Exploring Windows series, Dr. Grauer has written 30 books on programming and information systems, and has more than a million books in print. Dr. Grauer is available at [rgrauer@sba.miami.edu](mailto:rgrauer@sba.miami.edu).

**CAROL VAZQUEZ VILLAR**, an instructor in the Department of Computer Information Systems at the University of Miami for eight years, currently works for Andersen Consulting. She developed and trained high-performance teams on team building and communications. She is currently planning and developing leadership training seminars.

**DR. ARTHUR R. BUSS** is Associate Professor of Computer Studies at William Jewell College, where he teaches Information Technology courses. Prior to his teaching position with Jewell, he worked at Kmart Corporation and McDonnell Douglas as a programmer, systems analyst, and project leader. He is currently conducting studies in the Year 2000 problem and in object-oriented COBOL.

## Users Review

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Reading a guide tends to be new life style within this era globalization. With looking at you can get a lot of information which will give you benefit in your life. With book everyone in this world can easily share their idea. Guides can also inspire a lot of people. A great deal of author can inspire all their reader with their story or their experience. Not only the storyplot that share in the ebooks. But also they write about the ability about something that you need illustration. How to get the good score toefl, or how to teach children, there are many kinds of book that exist now. The authors nowadays always try to improve their skill in writing, they also doing some study before they write for their book. One of them is this COBOL: From Micro to Mainframe: Fujitsu Version (3rd Edition).

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