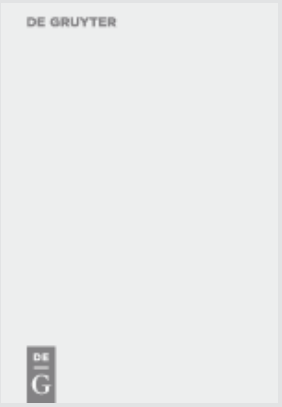
DE GRUYTER

Vincent Zimmer, Suresh Marisetty, Michael Rothman

BEYOND BIOS

Developing with the Unified Extensible Firmware Interface, Third Edition



This book provides an overview of modern boot firmware, including the Unified Extensible Firmware Interface (UEFI) and its associated EFI Developer Kit II (EDKII) firmware. The authors have each made significant contributions to developments in these areas. The reader will learn to use the latest developments in UEFI on modern hardware, including open source firmware and open hardware designs. The book begins with an exploration of interfaces exposed to higher-level software and operating systems, and commences to the left of the boot timeline, describing the flow of typical systems, beginning with the machine restart event.

Software engineers working with UEFI will benefit greatly from this book, while specific sections of the book address topics relevant for a general audience: system architects, pre-operating-system application developers, operating system vendors (loader, kernel), independent hardware vendors (such as for plug-in adapters), and developers of end-user applications. As a secondary audience, project technical leaders or managers may be interested in this book to get a feel for what their engineers are doing.

The reader will find:

- An overview of UEFI and underlying Platform Initialization (PI) specifications
- How to create UEFI applications and drivers
- Workflow to design the firmware solution for a modern platform
- Advanced usages of UEFI firmware for security and manageability

Vincent Zimmer Engineer, WA, USA, **Suresh Marisetty** Systems Architect, CA, USA, **Michael Rothman** Engineer,WA, USA

3rd Ed., xvii, 305 pages, 10 Figures (bw)

Paperback:
RRP *€ [D] 63.95 / *US$ 73.99 / *GBP 52.99
ISBN 978-1-5015-1478-4

eBook:
RRP *€ [D] 63.95 / *US$ 73.99 / *GBP 52.99
PDF ISBN 978-1-5015-0569-0
EPUB ISBN 978-1-5015-0583-6

Print/eBook:
RRP *€ [D] 99.95 / *US$ 114.99 / *GBP 81.99
ISBN 978-1-5015-0570-6

Date of Publication: January 2017

Language of Publication: English

Subjects:
Computer Architecture
Operating Systems
Programming and Languages
Software Development

Of interest to: Software Engineers, System Architects, Pre-Operating-System Application and End-User Developers, Hardware Vendors

*Prices in US$ apply to orders placed in the Americas only. Prices in GBP apply to orders placed in Great Britain only. Prices in € represent the retail prices valid in Germany (unless otherwise indicated). Prices are subject to change without notice. Prices do not include postage and handling. RRP: Recommended Retail Price.

Order now! orders@degruyter.com

*Prices in US$ apply to orders placed in the Americas only. Prices in GBP apply to orders placed in Great Britain only. Prices in € represent the retail prices valid in Germany (unless otherwise indicated). Prices are subject to change without notice. Prices do not include postage and handling. RRP: Recommended Retail Price.

Order now! orders@degruyter.com

degruyter.com

*Prices in US$ apply to orders placed in the Americas only. Prices in GBP apply to orders placed in Great Britain only. Prices in € represent the retail prices valid in Germany (unless otherwise indicated). Prices are subject to change without notice. Prices do not include postage and handling. RRP: Recommended Retail Price.

Order now! orders@degruyter.com

degruyter.com