

Fast Boot Optimization for Aptio®

Standards Based

Uses UEFI & the Intel® Platform Innovation Framework for UEFI

- UEFI IA32 & x64 bindings
- Integration with Intel EDK

Fast Boot Optimization

AMI obtained excellent boot times on several platforms

- Mobile: < 5 seconds on Intel® next generation platforms
- Embedded: Sub-second boot times possible

A Complete Solution

Product Ready UEFI Solution

- Aptio 4.x Core
- Optimized codebase
- Template-based porting
- Broad chipset and CPU support

Development & Debug Tools

- Visual eBIOS (VeB)
- AMIDebug™ for UEFI
- AMIDebug™ Rx

Deployment Utilities

- Flash utilities for multiple Operating Systems
- AMIBCP, MMTTool & Change Logo for ROM image maintenance
- DMIEDIT for SMIBIOS data management in manufacturing
- AMIDiag® for UEFI used in manufacturing and field diagnostics

Moving Beyond BIOS

AMI presents Aptio® as the next-generation solution for BIOS. Aptio incorporates over 20 years of experience delivering AMIBIOS solutions while moving beyond legacy BIOS limitations. Aptio is a highly modular solution, portable across a variety of platforms. The Aptio driver model, based on UEFI and the Framework, delivers higher flexibility than BIOS and provides new opportunities for applications in the pre-boot environment.

The AMI Fast Boot Advantage

The modular structure of Aptio® offers multiple advantages. UEFI architecture provides enhanced code reusability across multiple projects. Selected modules can be inserted or eliminated on specific projects to optimize code size. Code flexibility enables an number of boot optimization techniques that can be applied to several steps in the boot process.

Recent Aptio releases implement a wealth of boot optimization techniques, which vary with project characteristics. At Intel Developer Forum 2008, AMI was proud to demonstrate boot times of less than one second on selected embedded platforms.

Fast Boot on Intel® Next Generation Mobile Platforms

AMI is testing Intel's next generation mobile platforms with Microsoft Windows® 7 and utilizing Microsoft's Velocity Test Suite for evaluating overall system startup time.

Aptio passed rigorous testing operations with flying colors; AMI consistently produces platforms that pass Microsoft's Velocity requirement for BIOS boot times of five seconds or less.

AMI also provides tools that can help source customers easily achieve boot time optimization in their projects with the use of graphical development and project management tools such as AMI Debug and Visual eBIOS (VeB) Project Wizards. Moreover, AMI's new AMIDebug™ Rx tool simplifies boot time measurements as well as general purpose debugging.

Leveraging over 20 years of BIOS development, AMI can assist customers to keep boot times low by constant support throughout development and testing.

Reference: Mike Kartoz, Pete Dice, and Gabe Hattaway, "Fastboot BIOS", Intel® Corporation Whitepaper.

For more information contact an AMI Sales Representative at 1-800-UBUY-AMI, or visit us online at www.ami.com



American Megatrends Inc.
5555 Oakbrook Parkway, Suite 200
Norcross, GA 30093 | t: 770.246.8600
Sales & Product Information
sales@ami.com | t: 800.828.9264
Technical Support
support@ami.com | t: 770.246.8645
www.ami.com