



RESEARCH ARTICLE

Multi-Operating Environment System

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Abstract— Operating Systems are designed and optimized based on specific Environmental needs. The mobile operating systems are built to provide real-time applications and the desktop applications are built to provide extensive processing features. A multicore smartphome can be made available with the advantages/features associated with a mobile-specific embedded operating system and other general-purpose operating system without losing performance. The system is a middleware software system which helps user to change the operating environment. It consists of a multicore smartphome with two, co-existing, and independent environments (mobile/desktop) interacting with a common kernel. The system presents the desktop environment to the user when docked to a docking station or runs as a simple smartphome when undocked.

Key Terms: - Embedded Operating System; Real-time; Kernel Sharing; Multi-Operating Environment; Extensive Features; Middleware; Data Sharing; Resource sharing

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