



# **Real World Multicore Embedded Systems: Chapter 7. System Virtualization in Multicore Systems**

*David Kleidermacher*

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## Real World Multicore Embedded Systems: Chapter 7. System Virtualization in Multicore Systems

David Kleidermacher

This chapter discusses the potential of and role of system virtualization in meeting the flexibility, scalability, portability, and robustness demands of next-generation multicore embedded systems. Common architectural approaches to hypervisors are compared, including a strong focus on effective sharing and management of I/O peripherals across virtual machines. The chapter also describes and contrasts the virtualization hardware assistance features available in common multicore processors. Finally, emerging applications and use cases enabled by system virtualization are provided.



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