



Virtualization for Reliable Embedded Systems

By Marius Strobl

Grin Verlag GmbH Sep 2013, 2013. Taschenbuch. Book Condition: Neu. 211x146x22 mm. Besorgungstitel - vorauss. Lieferzeit 3-5 Tage. Neuware - Master's Thesis from the year 2013 in the subject Electrotechnology, grade: 1,0, University of Applied Sciences Regensburg (Fakultät Elektro- und Informationstechnik), language: English, comment: Masterarbeit im Studiengang 'Master Applied Research in Engineering Sciences', abstract: Virtualization has come a long way since its beginnings in the 1960s. Nowadays, Virtual Machine Monitor (VMM)- or hypervisor-based virtualization of servers is the de facto standard in data centers. In recent years, virtualization has also been adopted to embedded devices such as avionics systems and mobile phones. The first mass deployment of embedded virtualization can probably be seen in video game consoles, though. However, the functionalities and possibilities provided by embedded virtualization today for the most part still are where they were when virtualization was in its infancy in the mainframe era. Moreover, it is still not employed by automotive electronics at all thus far. This thesis presents advancements achieved in hardware virtualization since then as well as their possible merits for embedded virtualization. The emphasis hereby lies on increases in reliability of the resulting embedded systems. Additionally, the focus is on automotive Electronic...

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