



Chintalapati Mourya:

Evaluation of Embedded Operating Systems for the TMS320DM6437

Description

The main goal of this thesis is to install and evaluate a virtualized Linux operating systems on the TI TMS320DM6437 DaVinci platform using evaluation modules. This DaVinci platform integrates a high-performance digital signal processor with instructions needed for general-purpose operating systems, e.g., instructions for protected mode.

A further goal of this thesis is to develop and evaluate different methods for communication between image processing algorithms running on the DSP, the virtualized operating system running on the DSP, and a Linux operating system running on a general-purpose workstation.

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