

Thread execution on embedded processor - ARM9 core in Embedded Linux environment

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Abstract

Abstract:

As we know in case of any Operating System, processes do not share resources well. There's a high context switching overhead. Whereas, a thread (or lightweight process) is a basic unit of CPU utilization and comprises of a thread Identifier (ID), Program counter, register set and stack space. A thread within the process shares its code section, data section, and other operating-system resources, such as open files and signals with other threads belonging to the same process. The paper focuses on constructing and implementing a thread on ARM926EJ-S ARM. Thumb Processor based AT91SAM9260 Microcontroller in Embedded Linux environment.

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I. Introduction

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