

S3C2412 ARM Linux Overview

Introduction

The S3C2412 is part of the S3C24XX range of ARM9 System-on-Chip CPUs from Samsung. This part has an ARM926-EJS core, capable of running up to 266MHz (see data-sheet for more information)

Clock

The core clock code provides a set of clocks to the drivers, and allows for source selection and a number of other features.

Power

No support for suspend/resume to RAM in the current system.

DMA

No current support for DMA.

GPIO

There is support for setting the GPIO to input/output/special function and reading or writing to them.

UART

The UART hardware is similar to the S3C2440, and is supported by the s3c2410 driver in the drivers/serial directory.

NAND

The NAND hardware is similar to the S3C2440, and is supported by the s3c2410 driver in the drivers/mtd/nand/raw directory.

USB Host

The USB hardware is similar to the S3C2410, with extended clock source control. The OHCI portion is supported by the ohci-s3c2410 driver, and the clock control selection is supported by the core clock code.

USB Device

No current support in the kernel

IRQs

All the standard, and external interrupt sources are supported. The extra sub-sources are not yet supported.

RTC

The RTC hardware is similar to the S3C2410, and is supported by the s3c2410-rtc driver.

Watchdog

The watchdog hardware is the same as the S3C2410, and is supported by the s3c2410_wdt driver.

MMC/SD/SDIO

No current support for the MMC/SD/SDIO block.

IIC

The IIC hardware is the same as the S3C2410, and is supported by the i2c-s3c24xx driver.

IIS

No current support for the IIS interface.

SPI

No current support for the SPI interfaces.

ATA

No current support for the on-board ATA block.

Document Author

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