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CS401 GDB Solution

Fall 2020-2021

Solution

Cortex A	Cortex M
It Runs at relatively high clock frequency	It runs at slower clock speed
It is connected to large amount of memory	It is connected to less memory
It handles large number of applications and is capable of running complex operating system directly.	It is built into microcontroller with I/O lines and designed for small factor system that rely on heay digital input and output.
Application Process	Microcontrollers
Used in wide range of devices that have fully functional processors.	Designed for small devices and mixed signal processing.
High performance, high efficiency and high computational power.	Low Performance point, higher efficiency.
Applications: Mobiles. Telephones, tablets, Laptops, etc.	**Applications:** Robotic systems, small consumer electronics.

Cortex Families.

	Cortex-A Higher Performance	Cortex-M Lower Power, Smaller Are
Operating System	Rich OS/RTOS	RTOS Only
Instruction Set	32/64-bit ARM & Thumb ISA	Thumb ISA
Interrupts	SW-manage interrupt	HW-manage interrupt
Bus Interface	AMBA AXI	AMBA AHB/AXI

The End

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