

Module1

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2)

Value			
0x080002EE	4002	DCW	0x080002EE
0x080002F0	4806	DCW	0x4002
0x080002F2	4780	Reset_Handler:	
0x080002F4	4806	LDR	r0,[pc,#24] ; @0x0800030C
0x080002F6	4700	BLX	r0
0x080002F8	E7FE	LDR	r0,[pc,#24] ; @0x08000310
0x080002FA	E7FE	BX	r0
0x080002FC	E7FE	NMI_Handler:	
		B	NMI_Handler (0x080002F8)
		HardFault_Handler:	
		B	HardFault_Handler (0x080002FA)
		MemManage_Handler:	
		B	MemManage_Handler (0x080002FC)
		BusFault_Handler:	


3) 143 KB gpio code from hw 5

4)

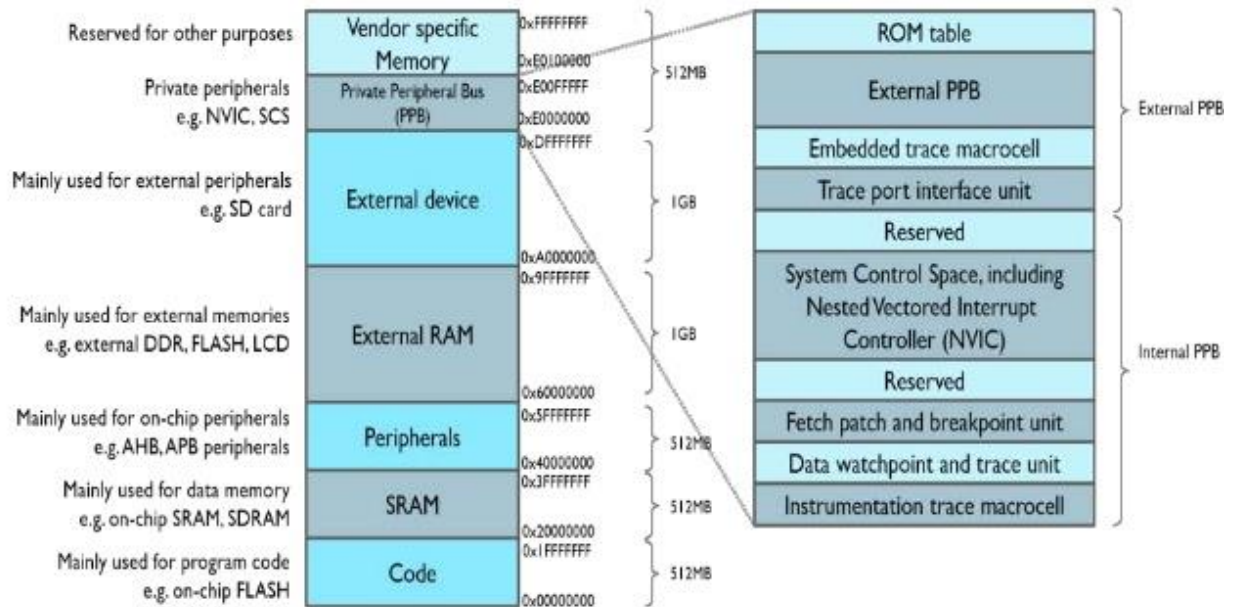
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Hello World !
RTC example
Time as a basic string = Sat Mar  9 19:43:49 2019
program running for 1 seconds.
Time as a basic string = Sat Mar  9 19:43:50 2019
program running for 2 seconds.
Time as a basic string = Sat Mar  9 19:43:51 2019
program running for 3 seconds.
Time as a basic string = Sat Mar  9 19:43:52 2019
program running for 4 seconds.
Time as a basic string = Sat Mar  9 19:43:53 2019
program running for 5 seconds.

```

Memory Usage		
		
Flash		
RAM		
Type	Size	Max
Code (Flash)	28.4 kB	512.0 kB
Code Data	3.2 kB	n/a
RO Data (Flash)	3.2 kB	512.0 kB
RW Data (RAM)	0.2 kB	96.0 kB
ZI Data (RAM)	1.6 kB	96.0 kB
Debug	9.1 kB	n/a
ROM	31.8 kB	n/a
Flash	31.6 kB	512.0 kB
RAM	1.8 kB	96.0 kB

5)



The memory model for the Cortex M4 is similar to the M0 with the program code starting at 0X00000000 and the data code (SRAM) starting at 0x20000000. The interrupts are handled in the private peripheral bus which starts at 0xE0000000.

6)

Dhrystone time for 20511744 passes = 60.001 sek
This machine benchmarks at 341859 dhrystones/second

We obtain VAX DMIPS by dividing Dhrystones per second by 1757.

$$341859/1757 = 194.57 \text{ DMIPS}$$