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QUESTION 1

In a multi-processor system, there are four processors numbered 0, 1, 2 and 3. The state of the processors is as follows:

-

CPU 0 and 1 are sleeping in low-power state following a WFI instruction.

-

CPU 2 is executing program code.

-

CPU 3 is sleeping in low-power state following a WFE instruction. CPU 2 executes a SEV instruction. What is the effect on the system?

A.

CPU 0: executing, CPU 1: executing, CPU 2: executing, CPU 3: executing

B.

CPU 0: executing, CPU 1: executing, CPU 2: executing, CPU 3: sleeping

C.

CPU 0: sleeping, CPU 1: sleeping, CPU 2: executing, CPU 3: executing

D.

CPU 0: sleeping, CPU 1: sleeping, CPU 2: sleeping, CPU 3: executing

Correct Answer: C

QUESTION 2

The Q-flag in the program status register (PSR) indicates which of the following?

A. Arithmetic overflow has occurred

B. Processor is in Thumb execution state

C. Imprecise data aborts are currently disabled

D. Saturation has occurred after execution of a saturated arithmetic instruction

Correct Answer: D

QUESTION 3



An Advanced SIMD intrinsic has the prototype: `int16x4_t vmul_n_s16(int16x4_t a, int16_t b)`; How many multiplications does this intrinsic compute?

- A. 1 multiplication
- B. 4 multiplications
- C. 16 multiplications
- D. 64 multiplications

Correct Answer: B

QUESTION 4

In an ARMv7-A system, the following C function calculates a simple checksum for an input data packet of variable length. The checksum is defined to be the sum of all of the 16-bit data items in the packet modulo 65536. The parameter `data_items` contains the number of 2-byte data items in the packet, and it cannot be zero by design.

```
unsigned short checksum(unsigned short * data, unsigned short data_items)
{
    unsigned short i;
    unsigned int sum = 0;

    for (i = 0; i < data_items; i++)
    {
        sum += data[i];
    }

    return (unsigned short)(sum % 65536);
}
```

When using an ARM compiler, which TWO of the following optimizations could improve the performance of this code? (Choose two)

- A. Use a do/while loop instead of a for loop
- B. Change the type of `sum` to be an unsigned short
- C. Change the type of `i` to be an unsigned int
- D. Use signed variables instead of unsigned variables
- E. Declare `sum` as a global variable

Correct Answer: AC

QUESTION 5

A development board is supplied with a Board Support Package (BSP) for a particular operating system. Which TWO of these items would you expect to find in the BSP? (Choose two)



- A. Power supply and electrical cables
- B. Debugging hardware and software solution
- C. System on chip peripheral driver source code
- D. Boundary scan protocol definition
- E. Boot code for board-specific devices

Correct Answer: CE

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