



# EN0-001<sup>Q&As</sup>

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### QUESTION 1

Which of these instructions is a correct translation of the body of function f?

```
struct T { char a; int b; };
```

```
int f(struct T *p) { return p->b; }
```

- A. LDR r0, [r0], #1
- B. LDR r0, [r0]. #4
- C. LDR r0, [r0.#1]
- D. LDR r0, [r0. #4]

Correct Answer: D

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### QUESTION 2

A deeply embedded real-time industrial control system is missing some hard real-time interrupt deadlines. Which of the following performance analysis techniques is the most suitable for identifying which routines are causing the problem?

- A. Use an ETM instruction trace profiler, which outputs information about the program as it runs
- B. Add some serial logging to the software, which outputs information about the program as it runs
- C. Add a new interrupt handler, which is triggered off a timer, and dump information about the interrupted process
- D. Use a JTAG sample-based profiler, which periodically halts the CPU, and dumps information about the interrupted process

Correct Answer: A

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### QUESTION 3

When using an Operating System, which instruction is used by user code to request a service from the kernel?

- A. BLX
- B. RFEFD
- C. SRSFD
- D. SVC

Correct Answer: D

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### QUESTION 4



When the processor is executing in Thumb state, which of the following statements is correct about the values stored in R15?

- A. Bits[31:16] are duplicated with bits[15:0]
- B. The PC value is stored in bits[31:1] and bit[0] is treated as zero
- C. The PC value is stored in bits[31:16] and bits[15:0] are undefined
- D. The PC value is stored in bits[15:0] and bits[31:16] are undefined

Correct Answer: B

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#### QUESTION 5

What type of instruction is used for cache maintenance operations?

- A. Dedicated ARM instructions
- B. Dedicated Thumb instructions
- C. CP14 instructions
- D. CP15 instructions

Correct Answer: D

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