

**Embedded Interview**

**Questions**



**[www.embedthreads.in](http://www.embedthreads.in)**

## Embedded C Interview Questions for Freshers.

- What are the components of an Embedded system?
- Difference Between RISC and CISC Processor?
- Difference between Von-Neuman and Harvard Architecture?
- Difference between BJT and MOSFET?
- Difference Between Microcontroller and Microprocessor?
- What is the Difference between Oscillator and Crystal Oscillator?
- What are the different types of Buses used by Embedded Systems?
- What is the boot-loader?
- Difference between UART, SPI and I2C?
- List various timers in embedded systems?
- Explain what is a Watchdog Timer?
- What is the need of pull up and pull down resistor in circuit?

## Embedded C Programming Interview Questions.

- Difference between C and Embedded C?
- Difference between compiler and interpreter?
- Difference between while(1) and while(0) in C language?
- Difference Between Structure and Array in C?
- Difference Between Structure and Union in C?
- Explain What Are The Different Storage Classes In C?
- Explain What Are The Different Qualifiers In C?
- What Is Pass By Value And Pass By Reference?
- Which statement is faster ++i or i+1?

## Embedded C Interview Questions for Experienced Engineers.

- What do you understand by startup code?
- Functions of Startup file?
- What are the differences between process and thread?
- What is ISR?
- Role of Interrupt Vector Table in Interrupt Processing?
- Explain What Is Interrupt Latency? How Can We Reduce It?
- What are the uses of the Keyword Static?
- What does "const int x;" mean?
- Where are constant variables stored in memory?
- How can you protect a character pointer by some accidental modification with the pointer address?
- Can a variable be volatile and const both?
- What is a Null pointer?
- What is the size of a pointer?
- When does a segmentation fault occur?
- What Is Difference Between Using A Macro And Inline Function?
- How can you use a variable in a source file defined in another source file?
- Little and Big Endian Mystery
- List the 4 levels of testing in Embedded Systems.
- What is multithreading and multiprocessing?
- What is Mutex?
- What is Semaphore?
- What are the 2 types of Semaphore?
- Is there any difference between Deadlock and Starvation?
- Difference between RS232 and RS485 (RS232 vs RS485)?
- What is CAN?
- Why CAN?

- Standard CAN vs Extended CAN
- How do CAN bus modules communicate?
- Why Can Is Having 120 Ohms at Each End?

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