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Embedded C Interview Questions

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Embedded C Interview Questions for Freshers ⌄

1. What do you understand by segmentation fault?
2. What do you understand by startup code?
3. What is ISR?
4. What is Void Pointer in Embedded C and why is it used?
5. Why do we use the volatile keyword?
6. What are the differences between the const and volatile qualifiers in embedded C?
7. What Is Concatenation Operator in Embedded C?
8. What do you understand by Interrupt Latency?
9. How will you use a variable defined in source file1 inside source file2?
10. What is Embedded C Programming? How is Embedded C different from C language?
11. What are the differences between Inline and Macro Function?
12. Is it possible for a variable to be both volatile and const?
13. Is it possible to declare a static variable in a header file?
14. What do you understand by the pre-decrement and post-decrement operators?
15. What is a reentrant function?

Embedded C Interview Questions for Experienced ⌄

1. Is it possible to protect a character pointer from accidentally pointing it to a different address?
2. What are the reasons for segmentation fault in Embedded C? How do you avoid these errors?
3. Is it recommended to use printf() inside ISR?
4. Is it possible to pass a parameter to ISR or return a value from it?
5. What Is a Virtual Memory in Embedded C and how can it be implemented?
6. What is the issue with the following piece of code?
7. The following piece of code uses __interrupt keyword to define an ISR. Comment on the correctness of the code.
8. What is the result of the below code?
9. What are the reasons for Interrupt Latency and how to reduce it?
10. Why is the statement ++i faster than i+1?
11. What do you understand by Wild Pointer? How is it different from Dangling Pointer?
12. What are the differences between the following 2 statements #include "..." and #include <...>?