

Re: Interview Questions

Source: http://coding.derkeiler.com/Archive/C_CPP/comp.lang.cpp/2004-05/1916.html

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Jatinder wrote:

> *I'm a professional looking for the job. In interview these questions
> were asked with some others which I answered. But some of them left
> unanswered. Plz help.*

>

> *Here are some questions on C/C++, OS internals?*

> *Q1 . What is the use of pointer to an array?*

One can iterate through the array using a pointer.

One can pass the location of an element by just passing the pointer.

The array can be allocated during run-time, especially when the size is unknown at run-time.

> *Q2 . What is the use of array of pointers?*

Multi-dimensional array.

Allows polymorphism for families of classes.

A convenient container for objects allocated during run-time.

> *Q3 . What is the use of pointer to function ?*

One can have an object associated with a function to process that object, such as factories.

Another use is to map menu items with functions to process the selection.

Allows for more generic algorithms, such as qsort (which allows a pointer to a comparison function).

> *Q4 . How to print through serial port? What is Flow Control(Xon,Xoff)*

> ?

This depends on the platform and maybe the Operating System.

The "best" way to print through a serial port is to use operating system functions.

The Flow Control characters, Xon and Xoff, are one method to turn on (resume) or pause (stop) transmission across the serial channel.

See also ETX, STX, Request To Send (RTS) and DTS.

> *Q5 . What is IOCTL Explain .*

I believe this is a platform specific structure containing details about an I/O device.

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> *Q6 . How to create an interrupt service routine in C?*

This requires notifying your compiler that a function is an ISR.

> *Q7 . What are the internals of a scheduler ?*

Depends on the platform and operating system. Fundamentally, a scheduler dispatches processes according to a given scheme, schedule or algorithm.

> *Q8 . The static variables are declared in heap or stack ?*

Neither, as the `_standard_` C language does not require an implementation to have a stack or heap. On many implementations that use a heap and stack, static variables are not declared on the stack or heap. They are allocated in the same area as global variables. But this depends on the implementation.

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Thomas Matthews

C++ newsgroup welcome message:

<http://www.slack.net/~shiva/welcome.txt>

C++ Faq: <http://www.parashift.com/c++-faq-lite>

C Faq: <http://www.eskimo.com/~scs/c-faq/top.html>

alt.comp.lang.learn.c-c++ faq:

<http://www.raos.demon.uk/ac11c-c++/faq.html>

Other sites:

<http://www.josuttis.com> -- C++ STL Library book