Topics

What is cross compiler?

Linked List

C Program to check a prime number

Xy + Yx= 1, find x and y

What is embedded system? Give example

Storage class in C

Difference between global and static variable with example

Mutual exclusion, priority inversion, dead loac

Some programs to find the value of X

1.addnode in any position in linked list.

2.How to find the loop in linked list

3.storage class.

4.what is use of register keyword.Example I have 1000 register variables then it is possibly to store all register in cpu register.

5.memory segments and compaling stages.

1.Reverse a string by using recursive function.

2.what is c tags,where we will use.

3.what are the version controll tools.

4.How to debug the program and list them.

5.Remove the duplicate node in a list.

6.I want to find a particular process, there are multiple process are running how.

1. What is Makefile and how to compile, write the syntax.

2. Reverse a double linked list.

3. Explain project.

4. Difference between structure and union

I2C, UART, SPI – Protocol timing with diagrams

CORTEX M4 Microcontrollers – with Types

Register Banks in Microcontrollers

Highest priority interrupts in Microcontrollers

Lowest priority interrupts in Microcontrollers

Semaphores

Shared Memory concepts

Mutex Locks

Projects

LSTrace, STrace Tools

Memory Leaks (How to use memory) and avoid, structure padding

Where you have used unions

IPC – types worked

Logical Question - Two uneven sized jar, one at 3 litres and one of 5, we have to separate out 4 litre at water

I2C, SPI

Make File, Make Utility – creation , tools & what it is

SVN

Prime numbers program to write in C

Searching Algorithms

Structure Vs Unions (Difference)

Linked List – Singular, Double and Cirricular, What is difference between Singular and Circular.

Time Compilation of Linked List

DMA Calls – Malloc and Calloc

Compilation Stages

Storage Classes

How to avoid linking error and what causes

What makes linking error?

Searching Algorithms

Sorting of algorithms – Quick Sort, Bubble Sort, Binary/Linear Sort

Sorting elements of linked list

Which is the latest algorithms to set the structure elements

Boot up sequence

Primary bootloader failures, what happens if fails? Which error? Which error will system boot up or not?

DDR failure

Trees – Binary Trees

Difference between Structures and Union

How the union members will share the memory

How to add a node at beginning + middle + End

How to find a loop in Linked List, write a program

Sort elements in linked list

DMS Calls

Storage classes

OSI Layers? What are those

TCP/IP

If I have a module connected to PC and I have developed a code during that some time it got error or crashed. So what was the precautions and steps to resolve the issue.