5 experts Posts:

Post 1:

[Multi-threading in Distributed System](https://d2l.depaul.edu/d2l/le/609442/discussions/threads/2184494/View)

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Kaijun He posted Jan 28, 2018 2:47 PM

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After I read the chapter 3 page P111 to P116 about the threads in distributed System.

since I have taken some courses about multithreading in operation systems, in my understanding, multithreading in the distributed systems

will be similar to multithreading in one single operation system, so the rescheduling will be the main factor in distributed systems as in operating systems, in the text book it states the characteristics of the multithreading model-- Parallelism, blocking system calls. In operating system, the multithreading rescheduling is using some defined rules like FIFO( first in first out), Round Robin and so on. the rules is in below link :<https://docs.oracle.com/cd/E19455-01/806-5257/mtintro-69291/index.html>.

it's not too hard to understand for single system rescheduling, but what the rescheduling happened at the same time for one single system and muti-computers in distributed systems. For example, there are 5 computers in this distributed system and each computers is running like 4 thread together, so in this condition what kind of rescheduling policies will be used, I mean it's not easy to decide the urgency level of thread in a mass amount of computers, so anyone have any idea about this issue?

Post 2:

## Kaijun He

January 11 at 12:43 PM

hi Howard:

            I was working in software engineering since i was undergraduate, so most of my time is to work on applications, like mobile application, website application or database, i believe you had done some course to do an application within a team, you must know how the process works for a real application product, for example like product backlog, schedule your sprint, use github wisely and so on. other suggesting for software engineering is that you must know and familiar with several programming languages like c, java, sql and so on. it's not required but you must need to know some in frontend and backend.

Post 3:

# **for DNS Lab ifconfig command**

Kaijun He posted Jan 27, 2018 12:01 PM

Hi all:

              since the command given for the lab are mostly about the windows OS and a little about Linux, for people who are using

mac OS, maybe this will be helpful for your lab.

<https://developer.apple.com/legacy/library/documentation/Darwin/Reference/ManPages/man8/ifconfig.8.html>

this is link is the command man page for ifconfig, it's exactly same output when you type in man [command] in your mac terminal.

Post 4:

# **IP lab in mac OS**

Kaijun He posted Jan 27, 2018 11:07 AM

Hi all,

        it seems like that professor only supply us that windows version capture sample of Wireshark, but if we are using mac OS, after type in

traceroute gaia.cs.umass.edu 56, and we suppose to get some output in Wireshark, in windows we could see 98 echo ...... with ttl=1 , ttl=2 and so on, I’m confused about what we should look up in mac OS version wire shark, is that UDP protocol with info like 62898->33445 len=28?

Post 5:

## Kaijun He

as what other people suggest it, the easiest way to use Linux in your windows system or mac OS, it's to install an Ubuntu.

other way is that, because in DePaul computer lab, there are some computers with Linux OS, so you could remotely connect to those computers, I don't know what kind of OS you are using right now, I have used FILEZILLA, and Putty for remote usage, main idea for this is that you write your own file at your own computer, after you install FileZilla or Putty, you could transfer your files in your own computer to computer in DePaul Linux systems, if you are using mac OS, then you could use terminal to connect to Linux computer in DePaul lab and run it.

Post 6:

## Kaijun He

it's not just the UI which is different between Mac OS and Windows, I'm using Mac OS, so my Wireshark is totally different. And it's interesting find out that for some labs, the capture texts in info section in Wireshark is quite different, I have to spend long time to figure out what's the correct one I should check to answers those questions in lab instructions, But Mac OS procedure is quite same as Unix.

Post 7:

## Kaijun He

Hi Ming-Kang:

            as what you say that if there is no global value, then it will not have a thread safe issue, the thread safe issue is happening when not only one thread which needs to be accessed, so it will go to two problems, how we could do to prevent from thread unsafe, another one is that what cost of performance if you do some action to avoid problem of thread safe. for examples, in java it has lock api which could protect thread safe, it's just like mask in c programming language. if we could get over the thread safe issue, it will make another problem, for a large mount of threads, we have to think about the multithread rescheduling issue, generally we could use FIFO which is first in first out policy, or round robin policy. we also could define a new variable which can be used to decide which kind of thread we should let it run first. there are a lot of ways, Like FIFO, we could create our own rescheduling policy to increase performance of our system.

Three Say Hello Back posts:

Post 1:

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### Kaijun He

January 6 at 3:33 PM

Thank you so much professor. I'm totally seduced by the world of CS, it's so amazing for me after I finish some work of programing. That's the reason why I choose to learn CS.

Post 2:

### Kaijun He

January 7 at 10:19 PM

what kind of food do you like? American, Chinese, Korean, Japanese? I really glad to share my experience with you. By the way, I'm also an online student.

Post 3:

### Kaijun He

January 7 at 10:22 PM

I have same feeling when I add CS major to my education career, but I believe it will be fine, almost all knowledge related in CS you could find free resources online. other peers included me will be glad to help you if you need some help.

Post 4:

### Kaijun He

January 7 at 10:25 PM

Dear Lanny, is that king spa nearby Niles? I'm so happy to join your 435 WeChat, my WeChat ID is h8681566, just add me

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