ASSIGNMENT REPORT 1: PROCESS AND THREAD IMPLEMENTATION

CENG2034, OPERATING SYSTEMS

Beyzanur Öztürk
beyzanurozturk@posta.mu.edu.tr

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Abstract

This report has processes and threads programming in Python. First, you will see the some methods in os library and then threading and requests libraries. The methods and the way its' uses all depends on Assignment Guide in midterm.

1 Introduction

This lab is important because the study of Operating System is based on terminology but the lab provides us to do some practice on it. There are such things becoming more understandable.

2 Assignments

2.1 Print PID of itself

First of all, we see the method "os.getpid()" to acces PID of itself. I think it is simple.

2.2 If OS is linux, print loadavg

Secondly, we see the methods "os.getloadavg()" and "os.name". getloadavg() takes the 1minute , 5 minute, 15 minute load averages. os.name determines which os is running on your system(for linux use posix!)

2.3 taking 5 min loadavg and cpu core count

In this section, we checking the 5 min loadavg is near or close to the cpu core count. We see the method "cpu count()". And for taking five min loadavg assign three variable to the os.getloadavg() and the middle one is 5min value.

2.4 check the urls are valid with threads

In final section, I define a method which is checking the URLs using requests lib and its functions. Since there are 5 URLs I used for loop and put threads in it.

3 Results

Since my computer system is Linux I could also see the outputs of each command.

4 Conclusion

At the end of this midterm, I have learned os library, requests library, threads library in Python and understand how is used and why is used.

References

[1] David Porush. *A Short Guide to Writing about Science.* Longman Publishing Group, 1997.