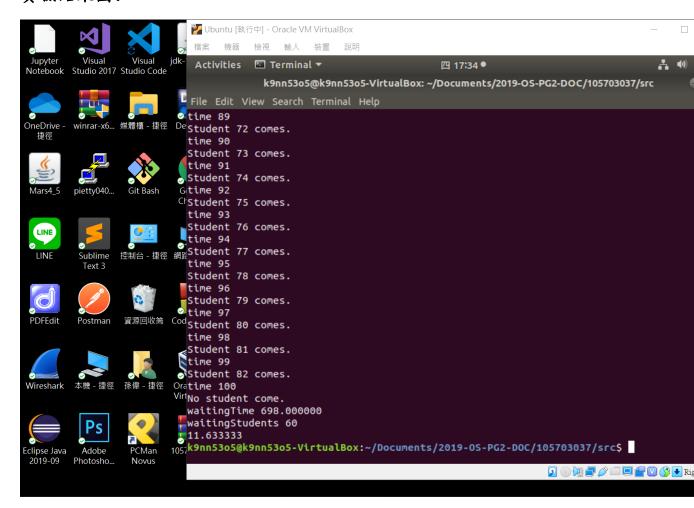
Operating Systems Fall, 2019

Programming Assignment 2

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實驗結果圖:



程式運作流程:

(請描述一下你的程式如何運作,如何計算出結果)

It will start from reading file which have 1 and 0 to represent students coming to find TA in each period of time. Then we create a thread call TA it will check if there is any student available that need to be teach, if there is student are waiting. TA will teach student in 2 msec, and -1 to the occupied chairs outside and then keep waiting student. And we also create threads called student_id[i], it represent student start to wait at chair and make occupied chair number +1 and the waiting for TA. The time a student wait for TA will be occupied chair number * 2(sitting on chair waiting) + 2(being tauch in TA office)

心得:

(請寫下完成本次作業的心得、學到哪些東西、困難點的部分。) 弄懂題目及各個鎖及變數是這次做業花最長時間的地方,打起程式還蠻快的,把 程式做填空,可是最後 debug 才發現原來 pthread_join 是容易出錯的地方, student_id[i] 的 thread 要注意是 studentPerTime[i] == 1 的才要 join,然 後 TA 的 thread 不要 join,不然程式會卡在無窮迴圈。