Exercise 5

已開始： 9月13日 16:54

測驗說明

問題 1

100 分數

Math time. We have a scheduling period of 20 ms. We have 4 processes: 3 with nice = 0, 1 with nice = 5. What is the wall-time of the nice 5 process? In other words, how long does it *actually* run?

You only need one of the following equations - think it over :)

$$sysctl\ min\ granularity\ =\ \frac{sysctl\ sched\ latency}{sched\ nr\ latency}$$

$$timeslice\ =\ (\ scheduling\ period)\ \times\ \frac{(\ process\ weight)}{(\ sum\ of\ \ all\ process\ weights)}$$

The weights for nice values are below (from: Jinkyu Koo, “Linux kernel scheduler”. URL: https://helix979.github.io/jkoo/post/os-scheduler/ (https://helix979.github.io/jkoo/post/os-scheduler/)).

nice	-20	-19	-18	-17	-16	-15	-14	-13	-12	-11
weight	88761	71755	56483	46273	36291	29154	23254	18705	14949	11916
nice	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1
weight	9548	7620	6100	4904	3906	3121	2501	1991	1586	1277
nice	0	1	2	3	4	5	6	7	8	9
weight	1024	820	655	526	423	335	272	215	172	137
nice	10	11	12	13	14	15	16	17	18	19
weight	110	87	70	56	45	36	29	23	18	15

問題 2

1 分數

How long does each of the individual nice = 0 processes run for?

測驗保存於 16:54

提交測驗