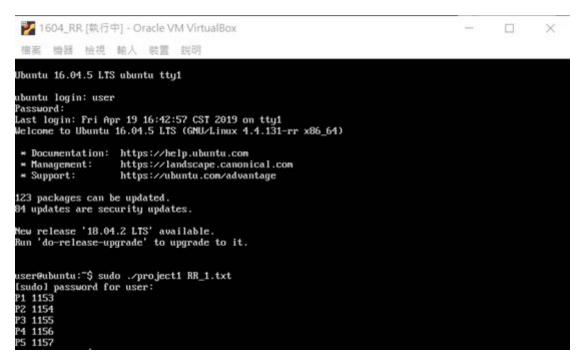
Project 1 report

1. 設計:

rr:在這種設計中,把一小段時間定義為Time Quantum或Time Slice,每個 process 皆有固定時 間量來使用 CPU,當 process 使用 CPU 超過一個 Time Slice 時,則Timer會產生中斷促使此 process 從 Running state 回到 Ready state。

2. 執行範例測資的結果:

rr:





檔案 機器 拾視 輸入 裝置 説明

```
3.587795] iscsi: registered transport (tcp)
3.588434] systemd[1]: Started Maneserver information manager.
3.594102] systemd[1]: Started Journal Service.
3.630264] iscsi: registered transport (iser)
3.783808] EXT4-fs (sda1): re-mounted. Opts: errors=remount-ro
3.803606] systemd-journald[358]: Received request to flush runtime journal from PID 1
3.8932526] piix4_smbus 0000:00:07.0: SMBus Host Controller at 0x4100, revision 0
3.893709] and_intel8x0 0000:00:05.0: disable (unknown or VI-d) VH optimization
4.154345] Adding 998396k swap on /dev/sda5. Priority:-1 extents:1 across:998396k FS
4.210315] random: nonblocking pool is initialized
4.255212] snd_intel8x0 0000:05.0: white list rate for 1028:0177 is 48000
4.278819] audit: type=1400 audit(1555670402.616:2): apparmor="STATUS" operation="profile_load"
name="/usr/bin/lxc-start" pid=703 comm="apparmor_parser"
4.283335] audit: type=1400 audit(1555670402.620:3): apparmor="STATUS" operation="profile_load"
name="lxc-container-default" pid=701 comm="apparmor_parser"
4.283353] audit: type=1400 audit(1555670402.620:5): apparmor="STATUS" operation="profile_load"
name="lxc-container-default-cgns" pid=701 comm="apparmor_parser"
4.283353] audit: type=1400 audit(1555670402.620:5): apparmor="STATUS" operation="profile_load"
name="lxc-container-default-with-mounting" pid=701 comm="apparmor_parser"
4.283353] audit: type=1400 audit(1555670402.620:5): apparmor="STATUS" operation="profile_load"
name="lxc-container-default-with-mounting" pid=701 comm="apparmor_parser"
4.283353] audit: type=1400 audit(1555670402.620:5): apparmor="STATUS" operation="profile_load"
name="lxc-container-default-with-mesting" pid=701 comm="apparmor_parser"
4.28403] audit: type=1400 audit(1555670402.620:5): apparmor="STATUS" operation="profile_load"
name="lxc-container-default-with-mesting" pid=701 comm="apparmor_parser"
4.28404] audit: type=1400 audit(1555670402.620:6): apparmor="STATUS" operation="profile_load"
name="lxc-container-default-with-mesting" pid=701 comm="apparmor_parser"
4.28404] audit: type=1400 
      4.284204] audit: type=1400 audit(1555670402.620:8): apparmor="STATUS" operation="profile_load" name="/usr/lib/snapd/snap-confine" pid=705 comm="apparmor_parser"

4.284212] audit: type=1400 audit(1555670402.620:9): apparmor="STATUS" operation="profile_load" name="mount-namespace-capture-helper" pid=705 comm="apparmor_parser"

4.287278] audit: type=1400 audit(1555670402.624:10): apparmor="STATUS" operation="profile_load" name="/sbin/dhclient" pid=702 comm="apparmor_parser"

4.367640] cgroup: new mount options do not match the existing superblock, will be ignored

4.394259] e1000: enp0s3 NIC Link is Up 1000 Mbps Full Duplex, Flow Control: RX

20.636449] [./project1] 1138 1555670418.977500308 1555670418.977502149

20.639661] [./project1] 1139 1555670418.980113258 1555670418.980115405

20.641540] [./project1] 1140 1555670418.98592779 1555670418.982594624

20.643958] [./project1] 1141 1555670418.985911026 1555670418.985912836

20.646467] [./project1] 1142 1555670418.987520322 1555670418.987522161
             ser@ubuntu:"$
```

3. 比較實際結果與理論結果,並解釋造成差異的原因:

rr:以rr 1.txt

理論: $p1\rightarrow p2\rightarrow p3\rightarrow p4\rightarrow p5$

實際: p1→p2→p3→p4→p5

差異:無差異

4. 各組員的貢獻

王憲儀:撰寫FIFO程式碼、撰寫報告

巫尚謙:撰寫RR程式碼、撰寫報告

林子翔:撰寫SJF程式碼、撰寫報告

陳翰生:撰寫PSJF程式碼、撰寫報告

禤詠詩