

HW1

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VirtualBox에 할당 한 CPU 코어가 2개 입니다.

1. Vcpu 설정

Xl vcpu-set pvm1 2

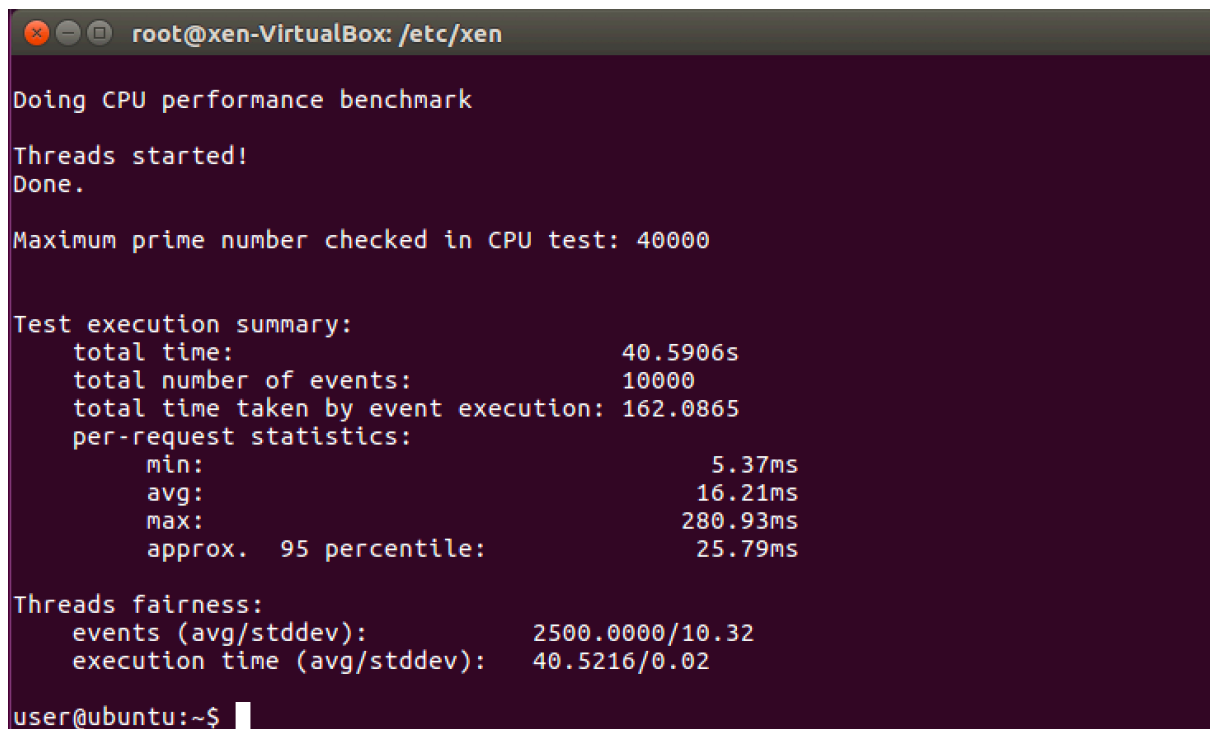
Xl vcpu-set pvm2 2

Xl vcpu-set pvm3 1

2. 각 pvm에 실행한 코드

```
#sysbench --test=cpu --num-threads=4 --cpu-max-prime=40000 run
```

3. xen 실행과제



```
root@xen-VirtualBox: /etc/xen

Doing CPU performance benchmark
Threads started!
Done.

Maximum prime number checked in CPU test: 40000

Test execution summary:
total time: 40.5906s
total number of events: 10000
total time taken by event execution: 162.0865
per-request statistics:
  min: 5.37ms
  avg: 16.21ms
  max: 280.93ms
  approx. 95 percentile: 25.79ms

Threads fairness:
  events (avg/stddev): 2500.0000/10.32
  execution time (avg/stddev): 40.5216/0.02

user@ubuntu:~$
```

pvm 1 스크린샷 (vcpu 2개)

```
root@xen-VirtualBox: /etc/xen

Doing CPU performance benchmark

Threads started!
Done.

Maximum prime number checked in CPU test: 40000

Test execution summary:
  total time:                38.6174s
  total number of events:    10000
  total time taken by event execution: 154.2167
  per-request statistics:
    min:                      5.64ms
    avg:                      15.42ms
    max:                      175.78ms
    approx. 95 percentile:    23.59ms

Threads fairness:
  events (avg/stddev):       2500.0000/4.06
  execution time (avg/stddev): 38.5542/0.02

user@ubuntu:~$
```

pvm 2 스크린샷 (vcpu 2개)

```
root@xen-VirtualBox: /etc/xen

Doing CPU performance benchmark

Threads started!
Done.

Maximum prime number checked in CPU test: 40000

Test execution summary:
  total time:                79.1233s
  total number of events:    10000
  total time taken by event execution: 316.0208
  per-request statistics:
    min:                      5.28ms
    avg:                      31.60ms
    max:                      441.36ms
    approx. 95 percentile:    54.92ms

Threads fairness:
  events (avg/stddev):       2500.0000/13.91
  execution time (avg/stddev): 79.0052/0.02

user@ubuntu:~$
```

pvm 3 스크린샷 (vcpu 1개)

```
root@xen-VirtualBox: /etc/xen
xen@xen-VirtualBox:/etc/xen$ sudo -s
[sudo] password for xen:
root@xen-VirtualBox:/etc/xen# xl list
Name                               ID    Mem VCPUs    State    Time(s)
Domain-0                           0   1243     2    r-----   492.2
pvm1                                4    256     2    -b-----   12.4
pvm2                                5    256     2    -b-----   10.5
pvm3                                6    256     2    -b-----   10.7
root@xen-VirtualBox:/etc/xen# xl vcpu-set pvm3 1
root@xen-VirtualBox:/etc/xen# xl lissssst
command not implemented
root@xen-VirtualBox:/etc/xen# x lisst
x: command not found
root@xen-VirtualBox:/etc/xen# xl list
Name                               ID    Mem VCPUs    State    Time(s)
Domain-0                           0   1243     2    r-----   500.2
pvm1                                4    256     2    -b-----   12.7
pvm2                                5    256     2    -b-----   10.9
pvm3                                6    256     1    -b-----   11.1
root@xen-VirtualBox:/etc/xen#
```

Domain-0 스크린 샷