

서버 프로그램 실행. LISTEN STATE.

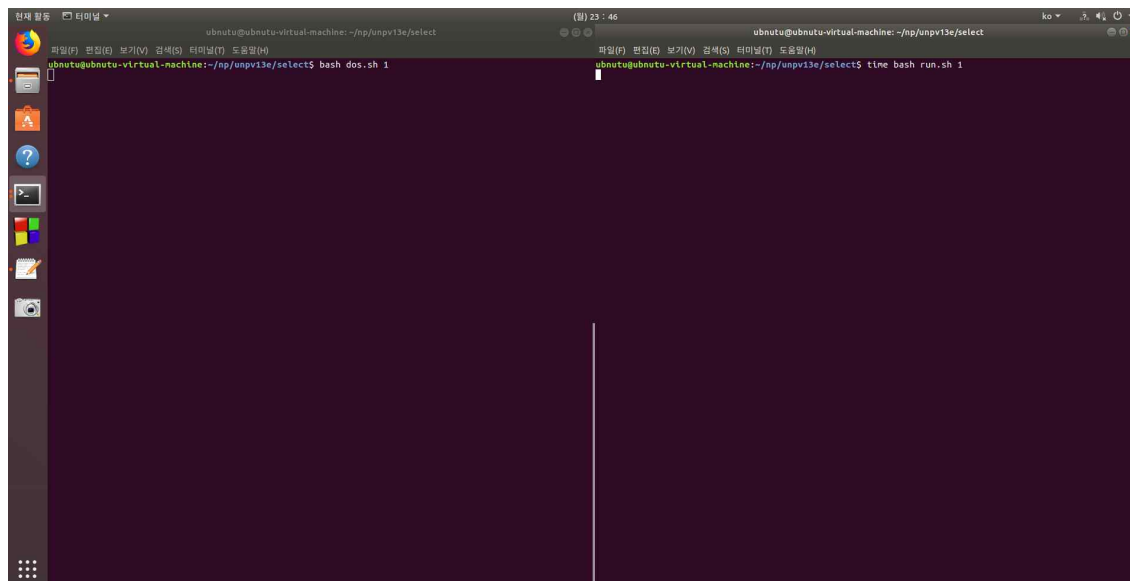
```
B411037@linux2:~/np/unprv13e/tcpcliserv
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0 0.0.0.0:* 30061 0.0.0.0:*  LISTEN
[B411037@linux2 tcpcliserv]$
```

```
B411037@linux2:~/np/unprv13e/tcpcliserv
[B411037@linux2 tcpcliserv]$ tcpserverselect01

```

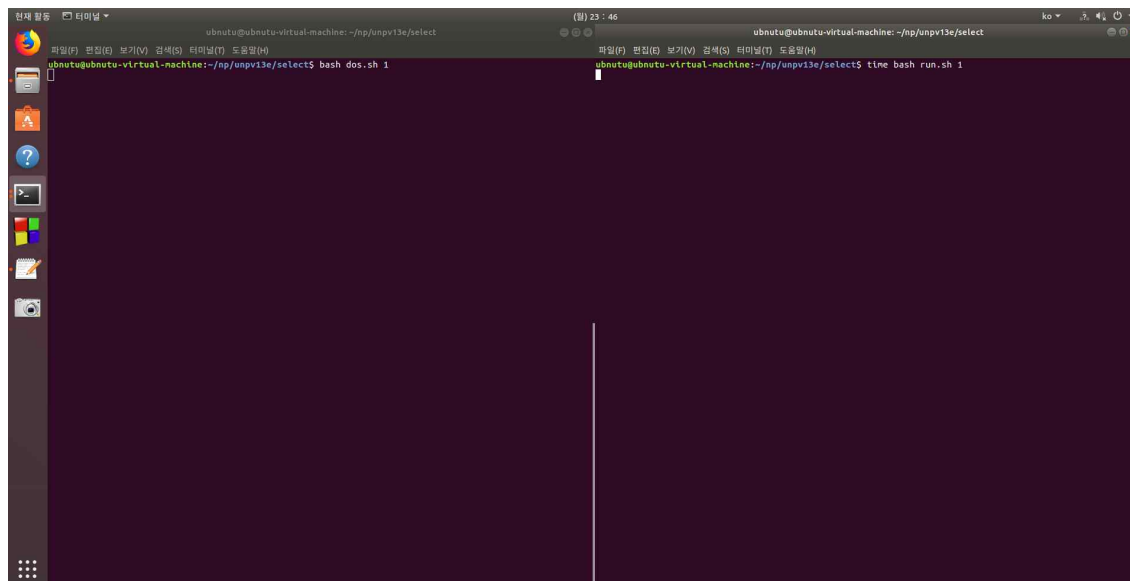
DOS 클라이언트 실행

```
8411037@linux2:~/np/unpv13e/tcpcliserv
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061               :::*                    LISTEN
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061               :::*                    LISTEN
tcp        0      0  203.249.75.14:30061   223.194.77.146:50781  ESTABLISHED
[B411037@linux2 tcpcliserv]$
```



DOS 클라이언트로 인해 서버가 BLOCK된 상태
정상적인 클라이언트가 서비스를 받지 못한다.

```
B411037@linux2:~/np/unpv13e/tcpcliserv
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061                :::*                    LISTEN
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061                :::*                    LISTEN
tcp        0      0  203.249.75.14:30061    223.194.77.146:50781  ESTABLISHED
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061                :::*                    LISTEN
tcp        0      0  203.249.75.14:30061    223.194.77.146:50782  ESTABLISHED
tcp        0      0  203.249.75.14:30061    223.194.77.146:50781  ESTABLISHED
[B411037@linux2 tcpcliserv]$
```



DOS Client 종료 후 정상적인 Client가 다시 동작

```
B411037@linux2:~/np/unpv13e/tcpcliserv
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061                *:30061                LISTEN
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061                *:30061                LISTEN
tcp        0      0  203.249.75.14:30061    223.194.77.146:50781  ESTABLISHED
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061                *:30061                LISTEN
tcp        0      0  203.249.75.14:30061    223.194.77.146:50782  ESTABLISHED
tcp        0      0  203.249.75.14:30061    223.194.77.146:50781  ESTABLISHED
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061                *:30061                LISTEN
tcp        0      0  458125.203.249.75:30061 223.194.77.146:50782  ESTABLISHED
[B411037@linux2 tcpcliserv]$
```



```
ubnutu@ubnutu-virtual-machine: ~/np/unpv13e/select
[134557] Hello world, Hello world, Hello world, Hello world
[134558] Hello world, Hello world, Hello world, Hello world
[134559] Hello world, Hello world, Hello world, Hello world
[134560] Hello world, Hello world, Hello world, Hello world
[134561] Hello world, Hello world, Hello world, Hello world
[134562] Hello world, Hello world, Hello world, Hello world
[134563] Hello world, Hello world, Hello world, Hello world
[134564] Hello world, Hello world, Hello world, Hello world
[134565] Hello world, Hello world, Hello world, Hello world
[134566] Hello world, Hello world, Hello world, Hello world
[134567] Hello world, Hello world, Hello world, Hello world
[134568] Hello world, Hello world, Hello world, Hello world
[134569] Hello world, Hello world, Hello world, Hello world
[134570] Hello world, Hello world, Hello world, Hello world
[134571] Hello world, Hello world, Hello world, Hello world
[134572] Hello world, Hello world, Hello world, Hello world
[134573] Hello world, Hello world, Hello world, Hello world
[134574] Hello world, Hello world, Hello world, Hello world
[134575] Hello world, Hello world, Hello world, Hello world
[134576] Hello world, Hello world, Hello world, Hello world
[134577] Hello world, Hello world, Hello world, Hello world
[134578] Hello world, Hello world, Hello world, Hello world
[134579] Hello world, Hello world, Hello world, Hello world
[134580] Hello world, Hello world, Hello world, Hello world
[134581] Hello world, Hello world, Hello world, Hello world
[134582] Hello world, Hello world, Hello world, Hello world
[134583] Hello world, Hello world, Hello world, Hello world
[134584] Hello world, Hello world, Hello world, Hello world
[134585] Hello world, Hello world, Hello world, Hello world
[134586] Hello world, Hello world, Hello world, Hello world
[134587] Hello world, Hello world, Hello world, Hello world
[134588] Hello world, Hello world, Hello world, Hello world
[134589] Hello world, Hello world, Hello world, Hello world
[134590] Hello world, Hello world, Hello world, Hello world
[134591] Hello world, Hello world, Hello world, Hello world
[134592] Hello world, Hello world, Hello world, Hello world
[134593] Hello world, Hello world, Hello world, Hello world
[134594] Hello world, Hello world, Hello world, Hello world
[134595] Hello world, Hello world, Hello world, Hello world
[134596] Hello world, Hello world, Hello world, Hello world
[134597] Hello world, Hello world, Hello world, Hello world
[134598] Hello world, Hello world, Hello world, Hello world
[134599] Hello world, Hello world, Hello world, Hello world
[136000] Hello world, Hello world, Hello world, Hello world
[136001] Hello world, Hello world, Hello world, Hello world
[136002] Hello world, Hello world, Hello world, Hello world
[136003] Hello world, Hello world, Hello world, Hello world
[136004] Hello world, Hello world, Hello world, Hello world
[136005] Hello world, Hello world, Hello world, Hello world
```

모든 클라이언트가 CLOSE 되고 LISTEN SOCKET만 남은 서버

```
B411037@linux2:~/np/unpv13e/tcpcliserv
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061                *:30061                LISTEN
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061                *:30061                LISTEN
tcp        0      0  203.249.75.14:30061    223.194.77.146:50781  ESTABLISHED
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061                *:30061                LISTEN
tcp        0      0  203.249.75.14:30061    223.194.77.146:50782  ESTABLISHED
tcp        0      0  203.249.75.14:30061    223.194.77.146:50781  ESTABLISHED
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061                *:30061                LISTEN
tcp        0      0  458125 203.249.75.14:30061  223.194.77.146:50782  ESTABLISHED
[B411037@linux2 tcpcliserv]$ netstat -a | grep 30061
tcp        0      0  *:30061                *:30061                LISTEN
[B411037@linux2 tcpcliserv]$
```



```
ubnutu@ubnutu-virtual-machine: ~/np/unpv13e/select
ubnutu@ubnutu-virtual-machine:~/np/unpv13e/select$ bash dos.sh 1
^C
ubnutu@ubnutu-virtual-machine:~/np/unpv13e/select$
```



```
ubnutu@ubnutu-virtual-machine:~/np/unpv13e/select
[999959] Hello world, Hello world, Hello world, Hello world
[999960] Hello world, Hello world, Hello world, Hello world
[999961] Hello world, Hello world, Hello world, Hello world
[999962] Hello world, Hello world, Hello world, Hello world
[999963] Hello world, Hello world, Hello world, Hello world
[999964] Hello world, Hello world, Hello world, Hello world
[999965] Hello world, Hello world, Hello world, Hello world
[999966] Hello world, Hello world, Hello world, Hello world
[999967] Hello world, Hello world, Hello world, Hello world
[999968] Hello world, Hello world, Hello world, Hello world
[999969] Hello world, Hello world, Hello world, Hello world
[999970] Hello world, Hello world, Hello world, Hello world
[999971] Hello world, Hello world, Hello world, Hello world
[999972] Hello world, Hello world, Hello world, Hello world
[999973] Hello world, Hello world, Hello world, Hello world
[999974] Hello world, Hello world, Hello world, Hello world
[999975] Hello world, Hello world, Hello world, Hello world
[999976] Hello world, Hello world, Hello world, Hello world
[999977] Hello world, Hello world, Hello world, Hello world
[999978] Hello world, Hello world, Hello world, Hello world
[999979] Hello world, Hello world, Hello world, Hello world
[999980] Hello world, Hello world, Hello world, Hello world
[999981] Hello world, Hello world, Hello world, Hello world
[999982] Hello world, Hello world, Hello world, Hello world
[999983] Hello world, Hello world, Hello world, Hello world
[999984] Hello world, Hello world, Hello world, Hello world
[999985] Hello world, Hello world, Hello world, Hello world
[999986] Hello world, Hello world, Hello world, Hello world
[999987] Hello world, Hello world, Hello world, Hello world
[999988] Hello world, Hello world, Hello world, Hello world
[999989] Hello world, Hello world, Hello world, Hello world
[999990] Hello world, Hello world, Hello world, Hello world
[999991] Hello world, Hello world, Hello world, Hello world
[999992] Hello world, Hello world, Hello world, Hello world
[999993] Hello world, Hello world, Hello world, Hello world
[999994] Hello world, Hello world, Hello world, Hello world
[999995] Hello world, Hello world, Hello world, Hello world
[999996] Hello world, Hello world, Hello world, Hello world
[999997] Hello world, Hello world, Hello world, Hello world
[999998] Hello world, Hello world, Hello world, Hello world
[999999] Hello world, Hello world, Hello world, Hello world
네트워크 프로그래밍 프로그램 실행 과제 1-2
B411037 집진서 2분면 30061
real    0m31.868s
user    0m0.022s
sys     0m0.494s
ubnutu@ubnutu-virtual-machine:~/np/unpv13e/select$
```