

<http://www.coincoin.fr.eu.org/?ulimit-and-Isof>



# ulimit and Isof

- 6- Webographie -

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PID of WLS is 29518

to count how many file descriptors are held by a process :

```
ls /proc/29518/fd | wc -l
```

666

funnily this doesn't match the count reported by lsof ( one day I will discover why) :

```
lsof -p 29518 | wc -l
```

1288

to know the limit for the specific process :

```
cat /proc/29518/limits
```

| Limit | Soft | Limit | Hard | Limit | Units |
|-------|------|-------|------|-------|-------|
|-------|------|-------|------|-------|-------|

|              |           |           |         |
|--------------|-----------|-----------|---------|
| Max cpu time | unlimited | unlimited | seconds |
|--------------|-----------|-----------|---------|

|               |           |           |       |
|---------------|-----------|-----------|-------|
| Max file size | unlimited | unlimited | bytes |
|---------------|-----------|-----------|-------|

|               |           |           |       |
|---------------|-----------|-----------|-------|
| Max data size | unlimited | unlimited | bytes |
|---------------|-----------|-----------|-------|

|                |          |           |       |
|----------------|----------|-----------|-------|
| Max stack size | 10485760 | unlimited | bytes |
|----------------|----------|-----------|-------|

|                    |   |   |       |
|--------------------|---|---|-------|
| Max core file size | 0 | 0 | bytes |
|--------------------|---|---|-------|

|                  |           |           |       |
|------------------|-----------|-----------|-------|
| Max resident set | unlimited | unlimited | bytes |
|------------------|-----------|-----------|-------|

|               |       |       |           |
|---------------|-------|-------|-----------|
| Max processes | 32000 | 32000 | processes |
|---------------|-------|-------|-----------|

|                |      |      |       |
|----------------|------|------|-------|
| Max open files | 1024 | 1024 | files |
|----------------|------|------|-------|

|                   |       |       |       |
|-------------------|-------|-------|-------|
| Max locked memory | 65536 | 65536 | bytes |
|-------------------|-------|-------|-------|

|                   |           |           |       |
|-------------------|-----------|-----------|-------|
| Max address space | unlimited | unlimited | bytes |
|-------------------|-----------|-----------|-------|

|                |           |           |       |
|----------------|-----------|-----------|-------|
| Max file locks | unlimited | unlimited | locks |
|----------------|-----------|-----------|-------|

Max pending signals 515304 515304 signals

Max msgqueue size 819200 819200 bytes

Max nice priority 0 0

Max realtime priority 0 0

Max realtime timeout unlimited unlimited us

which is different for the limit set by default for a user :

`ulimit -a`

core file size (blocks, -c) 0

data seg size (kbytes, -d) unlimited

scheduling priority (-e) 0

file size (blocks, -f) unlimited

pending signals (-i) 515304

max locked memory (kbytes, -l) 64

max memory size (kbytes, -m) unlimited

open files (-n) 8192

pipe size (512 bytes, -p) 8

POSIX message queues (bytes, -q) 819200

real-time priority (-r) 0

stack size (kbytes, -s) 10240

cpu time (seconds, -t) unlimited

max user processes (-u) 1024

virtual memory (kbytes, -v) unlimited

file locks (-x) unlimited

To set the limit for a process open by the current shell :

```
ulimit -n MAX_FD_PER_PROCESS
```

In Linux, this is a PER-PROCESS limit ! You cannot directly limit the number of Files opened by a User ! You can only set a max-processes-per-user with `ulimit -u MAX` .