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Carné: 202003745

Make:


```
luis@luis-VirtualBox:~/Documentos/Sistemas_operativos/tarea1$ make
make -C /lib/modules/5.15.0-117-generic/build M=/home/luis/Documentos/Sistemas_operativos/tarea1 modules
make[1]: se entra en el directorio '/usr/src/linux-headers-5.15.0-117-generic'
  CC [M]  /home/luis/Documentos/Sistemas_operativos/tarea1/sysinfo.o
/home/luis/Documentos/Sistemas_operativos/tarea1/sysinfo.c: In function 'sysinfo_show':
/home/luis/Documentos/Sistemas_operativos/tarea1/sysinfo.c:23:5: warning: ISO C90 forbids mixed declarations and code [-Wdeclaration-
atement]
   23 |     int num_parent_processes = 0;
      |     ^~~
  MODPOST /home/luis/Documentos/Sistemas_operativos/tarea1/Module.symvers
  CC [M]  /home/luis/Documentos/Sistemas_operativos/tarea1/sysinfo.mod.o
  LD [M]  /home/luis/Documentos/Sistemas_operativos/tarea1/sysinfo.ko
  BTF [M] /home/luis/Documentos/Sistemas_operativos/tarea1/sysinfo.ko
Skipping BTF generation for /home/luis/Documentos/Sistemas_operativos/tarea1/sysinfo.ko due to unavailability of vmlinux
make[1]: se sale del directorio '/usr/src/linux-headers-5.15.0-117-generic'
```

Instalación del módulo:


```
luis@luis-VirtualBox:~/Documentos/Sistemas_operativos/tarea1$ sudo insmod sysinfo.ko
  [sudo] contraseña para luis:
```

Resultado de sysinfo:


```
luis@luis-VirtualBox:~/Documentos/Sistemas_operativos/tarea1$ cat /proc/sysinfo
Total RAM: 8127572 KB
Free RAM: 5838808 KB
Shared RAM: 3684 KB
Buffer RAM: 45532 KB
Total Swap: 16790272 KB
Free Swap: 18446266745228816384 KB
Number of processes: 25
Number of child processes: 204
```


```
napd/snap-confine//mount-namespace-capture-helper" pid=881 comm="apparmor_parser"
[   13.028019] rfkill: input handler disabled
[  954.199131] hrtimer: interrupt took 6949139 ns
[ 1165.220579] sysinfo: loading out-of-tree module taints kernel.
[ 1165.220617] sysinfo: module verification failed: signature and/or required key missing - tainting kernel
[ 1165.221620] sysinfo module loaded
```

Repositorio
https://github.com/LuisCastillo2001/SO1_2S2024_202003745