listtaskslinear.c

A kernel module that iterates through all tasks in the system using the for_each_process() macro.

Environmental dependencies

OS: CentOS-8.1.1911-x86_64
Kernels: 4.18.0-147.5.1.el8_1.x86_64

Installation

Please check Makefile.
My Makefile include this information.

```
# at first type on ur terminal that $(uname -r) then u will get the version..
# that is using on ur system
obj-m += <program name>.o
KDIR =/usr/src/kernels/4.18.0-147.5.1.el8_1.x86_64 //my kernel locaiton
all:
$(MAKE) -C $(KDIR) SUBDIRS=$(PWD) modules
clean:
rm -rf *.o *.ko *.mod.* *.symvers *.order
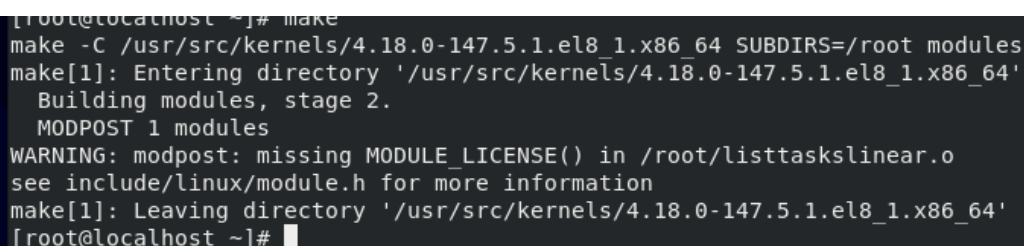```

and then make.

```
make
```

Usage

```
insmod listtaskslinear.ko
dmesg
rmmod listtaskslinear.ko
dmesg
```

Trace

```
dmesg
```

Screenshots

```
[root@localhost ~]# make
make -C /usr/src/kernels/4.18.0-147.5.1.el8_1.x86_64 SUBDIRS=/root modules
make[1]: Entering directory '/usr/src/kernels/4.18.0-147.5.1.el8_1.x86_64'
  Building modules, stage 2.
  MODPOST 1 modules
WARNING: modpost: missing MODULE_LICENSE() in /root/listtaskslinear.o
see include/linux/module.h for more information
make[1]: Leaving directory '/usr/src/kernels/4.18.0-147.5.1.el8_1.x86_64'
[root@localhost ~]#
```

```
[ 2006.616587] PID: 3513 | NAME: kworker/2:1 | STATE: 1026
[ 2006.616588] PID: 3525 | NAME: nautilus | STATE: 1
[ 2006.616589] PID: 3528 | NAME: gvfsd-trash | STATE: 1
[ 2006.616589] PID: 3564 | NAME: kworker/1:2 | STATE: 1026
[ 2006.616590] PID: 4134 | NAME: kworker/0:1 | STATE: 1026
[ 2006.616591] PID: 4677 | NAME: kworker/3:0 | STATE: 1026
[ 2006.616591] PID: 4724 | NAME: kworker/2:0 | STATE: 1026
[ 2006.616592] PID: 4737 | NAME: gedit | STATE: 1
[ 2006.616593] PID: 5284 | NAME: kworker/1:0 | STATE: 1026
[ 2006.616594] PID: 5805 | NAME: sleep | STATE: 1
[ 2006.616594] PID: 5806 | NAME: insmod | STATE: 0
[ 2006.616595] Module loaded.
[root@localhost ~]#
```

```
[ 2006.616594] PID: 5806 | NAME: insmod | STATE: 0
[ 2006.616595] Module loaded.
[ 2020.502822] Removing module.
[ 2020.502823] Module removed.
[root@localhost ~]#
```

Contact

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