

listtasksdfs.c

Beginning from the init task, a kernel module that iterates over all tasks in the system using a DFS tree.

Getting Started

Environmental dependencies

OS: CentOS-8.1.1911-x86_64

Kernels: 4.18.0-147.5.1.el8_1.x86_64

Language: C

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
```

Run Steps

```
make
insmod listtasksdfs.ko
dmesg
rmmod listtasksdfs.ko
dmesg
```

How to check?

```
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/listtasksdfs.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 ~]#
```

```
[ 3630.777000] Loading module.
[ 3630.777002] PID: 1 | NAME: systemd | STATE: 1
[ 3630.777003] PID: 724 | NAME: systemd-journal | STATE: 1
[ 3630.777003] PID: 759 | NAME: systemd-udevd | STATE: 0
[ 3630.777004] PID: 918 | NAME: rpcbind | STATE: 1
[ 3630.777005] PID: 925 | NAME: auditd | STATE: 1
[ 3630.777005] PID: 927 | NAME: sedispatch | STATE: 1
[ 3630.777006] PID: 949 | NAME: udisksd | STATE: 1
[ 3630.777007] PID: 950 | NAME: dbus-daemon | STATE: 1
[ 3630.777007] PID: 952 | NAME: ModemManager | STATE: 1
[ 3630.777008] PID: 953 | NAME: VGAuthService | STATE: 1
[ 3630.777008] PID: 954 | NAME: vmtoolsd | STATE: 1
[ 3630.777009] PID: 956 | NAME: irqbalance | STATE: 1
[ 3630.777010] PID: 957 | NAME: rngd | STATE: 1
[ 3630.777011] PID: 959 | NAME: rtkit-daemon | STATE: 1
[ 3630.777011] PID: 960 | NAME: alsactl | STATE: 1
[ 3630.777012] PID: 963 | NAME: chronyd | STATE: 1
[ 3630.777012] PID: 971 | NAME: smartd | STATE: 1
[ 3630.777013] PID: 973 | NAME: mcelog | STATE: 1
[ 3630.777014] PID: 974 | NAME: avahi-daemon | STATE: 1
[ 3630.777015] PID: 1003 | NAME: avahi-daemon | STATE: 1
```

```
[ 3630.777244] Module loaded.
[ 3668.227553] Removing module.
[ 3668.227553] Module removed.
```

How to contact me?

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