

listtasksdfs.c

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

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 listtasksdfs.ko  
dmesg  
rmmod listtasksdfs.ko  
dmesg
```

Trace

```
dmesg
```

Screenshots

```
[ 1868.361547] Loading module.  
[ 1868.361549] PID: 1 | NAME: systemd | STATE: 1  
[ 1868.361550] PID: 709 | NAME: systemd-journal | STATE: 1  
[ 1868.361551] PID: 744 | NAME: systemd-udev | STATE: 0  
[ 1868.361551] PID: 900 | NAME: rpcbind | STATE: 1  
[ 1868.361552] PID: 904 | NAME: auditd | STATE: 1  
[ 1868.361553] PID: 912 | NAME: sedispatch | STATE: 1  
[ 1868.361553] PID: 934 | NAME: smartd | STATE: 1  
[ 1868.361554] PID: 935 | NAME: rngd | STATE: 1  
[ 1868.361554] PID: 936 | NAME: rtkit-daemon | STATE: 1  
[ 1868.361555] PID: 937 | NAME: mcelog | STATE: 1  
[ 1868.361555] PID: 939 | NAME: alsactl | STATE: 1  
[ 1868.361556] PID: 940 | NAME: dbus-daemon | STATE: 1  
[ 1868.361557] PID: 941 | NAME: udiskd | STATE: 1  
[ 1868.361557] PID: 942 | NAME: sssd | STATE: 1  
[ 1868.361558] PID: 1025 | NAME: sssd_be | STATE: 1  
[ 1868.361558] PID: 1028 | NAME: sssd_nss | STATE: 1  
[ 1868.361559] PID: 944 | NAME: systemd-machine | STATE: 1  
[ 1868.361559] PID: 945 | NAME: lsmd | STATE: 1  
[ 1868.361560] PID: 947 | NAME: irqbalance | STATE: 1
```

```
[ 1868.361768] Module loaded.  
[ 1902.618276] Removing module.  
[ 1902.618277] Module removed.
```

Contact

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