# **Code and description:**

#### 1. Linear traversal method:

At first, we initialize the task\_struct structure, which includes the contents of the operating process. Then, we use the for\_each\_process function to iterate through all the tasks, and print out the contents in the kernel load buffer.

# 2. DFS method:

In this part, we use DFS algorithm to find all the tasks. At first, we initialize the task\_struct structure as same as the previous part, then use the recurrence relation to keep finding. For a current node, we find its children until the end, and then do the same tracing for the siblings. At the end, we could find out all the tasks with the DFS arrangement.

### **Execution results:**

**Linear traversal method:** 

```
| 3149.471407| pid: 1 | pname: systemd | state: 1 | 3149.471408| pid: 2 | pname: kthreadd | state: 1 | 3149.471409| pid: 3 | pname: rcu_pg | state: 1026 | 3149.471411| pid: 6 | pname: kworker/0:0H | state: 1026 | 3149.471411| pid: 8 | pname: kworker/0:0H | state: 1026 | 3149.471412| pid: 9 | pname: ksofttrqd/0 | state: 1 | 3149.471413| pid: 11 | pname: rcu_sched | state: 1026 | 3149.471413| pid: 11 | pname: rcu_bh | state: 1026 | 3149.471413| pid: 12 | pname: mtgration/0 | state: 1 | 3149.471413| pid: 12 | pname: mtgration/0 | state: 1 | 3149.471415| pid: 13 | pname: watchdog/0 | state: 1 | 3149.471415| pid: 14 | pname: cpuhp/0 | state: 1 | 3149.471415| pid: 15 | pname: kdevtmpfs | state: 1 | 3149.471417| pid: 16 | pname: netns | state: 1026 | 3149.471419| pid: 17 | pname: kaudttd | state: 1 | 3149.471419| pid: 18 | pname: khungtaskd | state: 1 | 3149.471420| pid: 20 | pname: wom_reaper | state: 1 | 3149.471420| pid: 21 | pname: kcompactd0 | state: 1 | 3149.471420| pid: 22 | pname: kcompactd0 | state: 1 | 3149.471422| pid: 22 | pname: kcompactd0 | state: 1 | 3149.471422| pid: 23 | pname: ksmd | state: 1 | 3149.471422| pid: 24 | pname: kingepaged | state: 1 | 3149.471422| pid: 25 | pname: crypto | state: 1026 | 3149.471424| pid: 26 | pname: kintegrityd | state: 1026 | 3149.471424| pid: 27 | pname: klockd | state: 1026 | 3149.471424| pid: 28 | pname: ata_sff | state: 1026 | 3149.471425| pid: 31 | pname: kworker/0:1 | state: 1026 | 3149.471427| pid: 30 | pname: devfreq_wq | state: 1026 | 3149.471429| pid: 31 | pname: kworker/0:1 | state: 1026 | 3149.471430| pid: 38 | pname: kworker/0:1 | state: 1026 | 3149.471430| pid: 38 | pname: kworker/0:1 | state: 1026 | 3149.471430| pid: 38 | pname: kworker/0:1 | state: 1026 | 3149.471430| pid: 38 | pname: kworker/0:2 | state: 1026 | 3149.471430| pid: 38 | pname: kworker/0:2 | state: 1026 | 3149.471430| pid: 38 | pname: scsi_eh_0 | state: 1
```

```
3149.471439  ptd: 121 | pname: charger_manager | state: 1026
3149.471449  ptd: 172 | pname: mpt_poll_0 | state: 1026
3149.471441  ptd: 173 | pname: scsi_eh_2 | state: 1
3149.471441  ptd: 174 | pname: scsi_eh_2 | state: 1026
3149.471442  ptd: 175 | pname: scsi_tmf_2 | state: 1026
3149.471443  ptd: 176 | pname: scsi_tmf_3 | state: 1
3149.471443  ptd: 176 | pname: scsi_eh_3 | state: 1026
3149.471444  ptd: 178 | pname: scsi_eh_4 | state: 1
3149.471444  ptd: 178 | pname: scsi_eh_4 | state: 1
3149.471445  ptd: 179 | pname: scsi_tmf_4 | state: 1026
3149.471445  ptd: 180 | pname: scsi_tmf_5 | state: 1026
3149.471446  ptd: 181 | pname: scsi_tmf_5 | state: 1026
3149.471447  ptd: 182 | pname: scsi_tmf_6 | state: 1
3149.471449  ptd: 183 | pname: scsi_tmf_7 | state: 1026
3149.471449  ptd: 184 | pname: scsi_tmf_7 | state: 1026
3149.471449  ptd: 185 | pname: scsi_tmf_7 | state: 1026
3149.471449  ptd: 186 | pname: scsi_tmf_8 | state: 1026
3149.471449  ptd: 186 | pname: scsi_tmf_9 | state: 1026
3149.471450  ptd: 187 | pname: scsi_tmf_9 | state: 1026
3149.471451  ptd: 189 | pname: scsi_tmf_10 | state: 1026
3149.471452  ptd: 190 | pname: scsi_tmf_10 | state: 1026
3149.471453  ptd: 191 | pname: scsi_tmf_11 | state: 1026
3149.471454  ptd: 192 | pname: scsi_tmf_11 | state: 1026
3149.471455  ptd: 194 | pname: scsi_tmf_12 | state: 1
3149.471450  ptd: 195 | pname: scsi_tmf_13 | state: 1
3149.471450  ptd: 195 | pname: scsi_tmf_14 | state: 1026
3149.471450  ptd: 196 | pname: scsi_tmf_15 | state: 1
3149.471450  ptd: 197 | pname: scsi_tmf_15 | state: 1
3149.471450  ptd: 198 | pname: scsi_tmf_16 | state: 1
3149.471450  ptd: 196 | pname: scsi_tmf_18 | state: 1
3149.471450  ptd: 197 | pname: scsi_tmf_19 | state: 1
3149.471450  ptd: 198 | pname: scsi_tmf_19 | state: 1
3149.471450  ptd: 200 | pname: scsi_tmf_19 | state: 1
3149.471450  ptd: 201 | pname: scsi_tmf_19 | state: 1
3149.471460  ptd: 201 | pname: scsi_tmf_19 | state: 1
3149.471460  ptd: 202 | pname: scsi_tmf_19 | state: 1
3149.471460  ptd: 208 | pname: scsi_tmf_19 | state: 1
3149.47146
```

```
| pname: scsi_eh_23 | state: 1
| pname: scsi_tmf_23 | state: 1026
| pname: scsi_eh_24 | state: 1
| pname: scsi_eh_24 | state: 1026
| pname: scsi_tmf_24 | state: 1026
| pname: scsi_tmf_25 | state: 1026
| pname: scsi_tmf_26 | state: 1
| pname: scsi_tmf_26 | state: 1
| pname: scsi_tmf_27 | state: 1026
| pname: scsi_tmf_27 | state: 1026
| pname: scsi_tmf_28 | state: 1
| pname: scsi_tmf_28 | state: 1
| pname: scsi_tmf_28 | state: 1026
| pname: scsi_tmf_28 | state: 1026
| pname: scsi_tmf_29 | state: 1026
| pname: scsi_tmf_30 | state: 1026
| pname: scsi_tmf_31 | state: 1026
| pname: scsi_tmf_31 | state: 1026
| pname: scsi_tmf_32 | state: 1
| pname: scsi_tmf_32 | state: 1026
| pname: scsi_tmf_32 | state: 1026
| pname: boopi_state: 1
| pname: systemd-journal | state: 258
| pname: systemd-journal | state: 258
| pname: loop0 | state: 1
| pname: loop1 | state: 1
| pname: loop3 | state: 1
| pname: loop4 | state: 1
| pname: loop6 | state: 1
| pname: loop6 | state: 1
| pname: loop9 | state: 1
| pname: loop9 | state: 1
| pname: loop1 | state: 1
                                                                                                                                  215
                                                                                             pid: 216
                                                                                            pid: 217
                                                                                            pid: 218
 3149.471472] pid: 219
3149.471472] pid: 220
3149.471473] pid: 221
                                                                                          pid: 222
                                                                                         pid: 223
pid: 224
pid: 225
                                                                                          pid: 226
pid: 227
                                                                                             pid: 228
pid: 229
                                                                                                                d: 230
                                                                                                             ld: 231
ld: 232
ld: 234
                                                                                                              d: 236
                                                                                                                 d: 264
                                                                                                             d: 286
d: 287
                                                                                                                   : 323
                                                                                                           id: 334
id: 348
                                                                                                                                  350
                                                                                                              d: 351
                                                                                                                d: 353
                                                                                                             d: 354
d: 357
                                                                                                                d: 358
                                                                                             pid: 359
pid: 362
                                                                                                                 d: 365
                                                                                               pid: 367
                                                                                             pid: 368
                                                                                             pid: 371
pid: 372
pid: 374
                                                                                             pid: 378
pid: 380
                                                                                                                                  382
3149.471499] pid: 383
3149.471499] pid: 384
```

```
| 3149.471500| pid: 387 | pname: loop20 | state: 1 | 3149.471501| pid: 388 | pname: loop21 | state: 1 | 3149.471501| pid: 398 | pname: loop22 | state: 1 | 3149.471502| pid: 398 | pname: loop22 | state: 1 | 3149.471502| pid: 458 | pname: vmware-vmblock- | state: 1 | 3149.471503| pid: 461 | pname: vmtoolsd | state: 1 | 3149.471504| pid: 478 | pname: ttm_swap | state: 1026 | 3149.471504| pid: 479 | pname: ttm_swap | state: 1026 | 3149.471505| pid: 483 | pname: systemd-timesym | state: 1 | 3149.471507| pid: 545 | pname: kworker/u257:1 | state: 1026 | 3149.471507| pid: 652 | pname: dbus-daemon | state: 1 | 3149.471508| pid: 669 | pname: VGAuthService | state: 1 | 3149.471509| pid: 670 | pname: VGAuthService | state: 1 | 3149.471510| pid: 671 | pname: accounts-daemon | state: 1 | 3149.471511| pid: 676 | pname: accounts-daemon | state: 1 | 3149.471512| pid: 677 | pname: accounts-daemon | state: 1 | 3149.471513| pid: 676 | pname: accounts-daemon | state: 1 | 3149.471514| pid: 676 | pname: avahi-daemon | state: 1 | 3149.471515| pid: 686 | pname: acpid | state: 1 | 3149.471516| pid: 705 | pname: avahi-daemon | state: 1 | 3149.471516| pid: 706 | pname: avahi-daemon | state: 1 | 3149.471516| pid: 706 | pname: avahi-daemon | state: 1 | 3149.471516| pid: 707 | pname: wpa_supplicant | state: 1 | 3149.471516| pid: 706 | pname: snapd | state: 1 | 3149.471516| pid: 707 | pname: promoved | state: 1 | 3149.471516| pid: 706 | pname: cron | state: 1 | 3149.471519| pid: 744 | pname: rsyslogd | state: 1 | 3149.471519| pid: 745 | pname: polktid | state: 1 | 3149.471519| pid: 745 | pname: sups-browsed | state: 1 | 3149.471519| pid: 749 | pname: bluetoothd | state: 1 | 3149.471520| pid: 885 | pname: dws | state: 1 | 3149.471520| pid: 880 | pname: dws | state: 1 | 3149.471520| pid: 880 | pname: dws | state: 1 | 3149.471520| pid: 880 | pname: dws | state: 1 | 3149.471523| pid: 881 | pname: whoopsie | state: 1 | 3149.471523| pid: 924 | pname: whoopsie | state: 1 | 3149.471523| pid: 924 | pname: whoopsie | state: 1 | 3149.471523| pid: 930 |
```

```
1070 |pname: upowerd |state: 1
1086 |pname: Xwayland |state: 1
1089 |pname: at-spi-bus-laun |state: 1
                                                                              |pname: dbus-daemon |state: 1
|pname: at-spi2-registr |state: 1
|pname: pulseaudio |state: 1
                                                            1094
                                                            1096
                                                             1099
                                                                               |pname:
                                                                              |pname: rtkit-daemon |state: 1
|pname: ibus-daemon |state: 1
|pname: ibus-dconf |state: 1
                                                            1101
                                                            1112
                                                             1115
3149.471539] pid: 1119 |pname: tous-aconf |state: 1

3149.471539] pid: 1119 |pname: ibus-x11 |state: 1

3149.471539] pid: 1122 |pname: ibus-portal |state: 1

3149.471540] pid: 1129 |pname: boltd |state: 1

3149.471541] pid: 1130 |pname: packagekitd |state: 1

3149.471542] pid: 1131 |pname: gsd-xsettings |state: 1

3149.471542] pid: 1143 |pname: gsd-ally-settin |state: 1
                                                                             |pname: gsd-clipboard |state: 1
|pname: gsd-color |state: 1
|pname: gsd-datetime |state: 1
 3149.471543] pid: 1145
 3149.471544 pid: 1148
                                                            1149
                                                            1150
                                                                               |pname: gsd-housekeepin |state: 1
 3149.471546] pid: 1151 |pname: gsd-keyboard |state: 1
3149.471547] pid: 1152 |pname: gsd-keyboard |state: 1
 3149.471548| pid: 1155 |pname: gsd-mouse |state: 1
3149.471548| pid: 1157 |pname: gsd-power |state: 1
3149.471549| pid: 1158 |pname: gsd-print-notif |state: 1
3149.471550] pid: 1158 | pname: gsd-print-nottf | state: 1
3149.471550] pid: 1159 | pname: gsd-fkill | state: 1
3149.471550] pid: 1162 | pname: gsd-screensaver | state: 1
3149.471551] pid: 1164 | pname: gsd-smartcard | state: 1
3149.471552] pid: 1167 | pname: gsd-smartcard | state: 1
3149.471553] pid: 1169 | pname: gsd-sound | state: 1
3149.471553] pid: 1173 | pname: gsd-wacom | state: 1
3149.471555] pid: 1192 | pname: bus-engine-sim | state: 1
3149.471556] pid: 1224 | pname: colord | state: 1
3149.471556] pid: 1248 | pname: gsd-wacom | state: 1
3149.471556] pid: 1248 | pname: gsd-wacom | state: 1
                                                            1240 | pname: gdm-session-wor | state: 1
1248 | pname: systemd | state: 1
1249 | pname: (sd-pam) | state: 1
1262 | pname: gdm-x-session | state: 1
1268 | pname: Xorg | state: 1
1275 | pname: dbus-daemon | state: 1
1279 | pname: gdm-session-b | state: 1
  3149.471556] pid: 1248
 3149.471557] pid: 1249
 3149.471559] pid: 1268
3149.471561] pid: 1279 |pname: gnome-session-b |state: 1
3149.471561] pid: 1374 |pname: ssh-agent |state: 1
3149.471562] pid: 1376 |pname: at-spi-bus-laun |state: 1
3149.471563] ptd: 1381 |pname: dbus-daemon |state: 1
3149.471564] ptd: 1384 |pname: at-spi2-registr |state: 1
3149.471565] ptd: 1401 |pname: gnome-shell |state: 1
```

```
3149.471565] pid: 1407 |pname: gvfsd |state: 1
3149.471566] pid: 1412 |pname: gvfsd-fuse |state: 1
3149.471567] pid: 1423 |pname: pulseaudio |state: 1
3149.471568] pid: 1428 |pname: krfcommd |state: 1
 3149.471568] pid: 1428
3149.471569] pid: 1435
3149.471569] pid: 1439
3149.471568] pid: 1428 | pname: krfcommd | state: 1
3149.471569] pid: 1435 | pname: ibus-daemon | state: 1
3149.471569] pid: 1439 | pname: ibus-dconf | state: 1
3149.471570] pid: 1441 | pname: ibus-x11 | state: 1
3149.471571] pid: 1443 | pname: ibus-portal | state: 1
3149.471572] pid: 1454 | pname: gnome-shell-cal | state: 1
3149.471573] pid: 1460 | pname: evolution-sourc | state: 1
3149.471573] pid: 1476 | pname: goa-daemon | state: 1
3149.471575] pid: 1476 | pname: goa-daemon | state: 1
3149.471575] pid: 1477 | pname: goa-daemon | state: 1
 3149.471574 ptd: 1476 | pname: goa-daemon | state: 1

3149.471575 | ptd: 1477 | pname: gvfs-udisks2-vo | state: 1

3149.471575 | ptd: 1483 | pname: gvfs-mtp-volume | state: 1

3149.471576 | ptd: 1487 | pname: gvfs-afc-volume | state: 1

3149.471577 | ptd: 1494 | pname: goa-identity-se | state: 1

3149.471578 | ptd: 1499 | pname: gvfs-gphoto2-vo | state: 1

3149.471579 | ptd: 1511 | pname: gvfs-goa-volume | state: 1
 3149.471579| pid: 1511 | pname: gsd-power |state: 1
3149.471580| pid: 1512 | pname: gsd-print-notif |state: 1
3149.471580| pid: 1514 | pname: gsd-rfkill |state: 1
 3149.471581| pid: 1515 | pname: gsd-screensaver | state: 1
3149.471582| pid: 1516 | pname: gsd-sharing | state: 1
3149.471582| pid: 1517 | pname: gsd-ssettings | state: 1
   149.471583] pid: 1520
149.471584] pid: 1522
149.471585] pid: 1525
                                                                                       |pname: gsd-wacom |state: 1
|pname: gsd-sound |state: 1
|pname: gsd-smartcard |state: 1
   149.471585] pid: 1543
149.471586] pid: 1547
                                                                                        |pname: gsd-a11y-settin |state: 1
|pname: gsd-clipboard |state: 1
                                                                                        | pname: gsd-cttpood | state: 1
| pname: gsd-color | state: 1
| pname: gsd-datetime | state: 1
| pname: gsd-housekeepin | state: 1
| pname: gsd-keyboard | state: 1
                                                                     1548
                                                pid: 1550
   3149.471588] pid: 1551
                                                pid: 1554
                                                                                       | pname: gsd-keyboard | state: 1
| pname: gsd-media-keys | state: 1
| pname: gsd-mouse | state: 1
| pname: gsd-printer | state: 1
| pname: gsd-disk-utilit | state: 1
| pname: nutilus-deskto | state: 1
| pname: nutsd-trash | state: 1
 3149.471590] pid: 1555
3149.471590] pid: 1557
                                               pid: 1579
                                                pid: 1614
   149.471593] pid: 1615
                                                pid: 1620
                                                                                       | pname: yvfsd-trash | state: 1 | pname: gvfsd-trash | state: 1 | pname: evolution-calen | state: 1 | pname: evolution-calen | state: 1 | pname: evolution-calen | state: 1 | pname: evolution-addre | state: 1 | pname: evolution-addre | state: 1
                                                 pid: 1637
  3149.471595] pid: 1652
                                                pid: 1658
3149.471596] pid: 1679
3149.471597] pid: 1695
```

pid: 1705

```
| 3149.471600| ptd: 1741 | pname: bash | state: 1 | 3149.471600| ptd: 1749 | pname: gnome-software | state: 1 | 3149.471601| ptd: 1751 | pname: update-notifier | state: 1 | 3149.471602| ptd: 1766 | pname: fwupd | state: 1 | 3149.471602| ptd: 1842 | pname: code | state: 1 | 3149.471603| ptd: 1844 | pname: code | state: 1 | 3149.471604| ptd: 1880 | pname: code | state: 1 | 3149.471604| ptd: 1937 | pname: code | state: 1 | 3149.471604| ptd: 1937 | pname: code | state: 1 | 3149.471605| ptd: 2013 | pname: gyfsd-network | state: 1 | 3149.471606| ptd: 4387 | pname: gyfsd-network | state: 1 | 3149.471607| ptd: 4413 | pname: gyfsd-dnssd | state: 1 | 3149.471608| ptd: 4454 | pname: code | state: 1 | 3149.471608| ptd: 4454 | pname: code | state: 1 | 3149.471625| ptd: 4455 | pname: wicrosoft.VSCod | state: 1 | 3149.471625| ptd: 4507 | pname: wicrosoft.VSCod | state: 1 | 3149.471625| ptd: 4536 | pname: wicrosoft.VSCod | state: 1 | 3149.471627| ptd: 4710 | pname: wicrosoft.VSCod | state: 1 | 3149.471628| ptd: 4726 | pname: wicrosoft.VSCod | state: 1 | 3149.471629| ptd: 4726 | pname: wicrosoft.VSCod | state: 1 | 3149.471629| ptd: 4726 | pname: wicrosoft.VSCod | state: 1 | 3149.471629| ptd: 4874 | pname: wicrosoft.VSCod | state: 1 | 3149.471629| ptd: 4874 | pname: wicrosoft.VSCod | state: 1 | 3149.471629| ptd: 4874 | pname: worker/u256:0 | state: 1 | 3149.471630| ptd: 4874 | pname: wworker/u256:0 | state: 1 | 3149.471630| ptd: 4874 | pname: wworker/u256:0 | state: 1 | 3149.471630| ptd: 4984 | pname: wworker/u256:0 | state: 1 | 3149.471630| ptd: 4984 | pname: wworker/u256:0 | state: 1 | 3149.471630| ptd: 4984 | pname: wworker/u256:0 | state: 1 | 3149.471630| ptd: 4984 | pname: wworker/u256:0 | state: 1 | 3149.471630| ptd: 4984 | pname: sudo | state: 1 | 3149.471630| ptd: 4984 | pname: wworker/u256:0 | state: 1 | 3149.471630| ptd: 4984 | pname: wworker/u256:0 | state: 1 | 3149.471630| ptd: 4984 | pname: wworker/u256:0 | state: 1 | 3149.471630| ptd: 4984 | pname: sudo | state: 1 | 3149.471630| ptd: 4984 | pname: sudo | state: 1 |
```

## **DFS** method:

```
d: 1149 |pname: gsd-datetime |state: 1
d: 1150 |pname: gsd-housekeepin |state: 1
                   : 1151
                                                           |pname: gsd-keyboard |state: 1
                                                         |pname: gsd-media-keys |state: 1
|pname: gsd-mouse |state: 1
|pname: gsd-power |state: 1
            d: 1152
             d: 1155
                             1157
                                                          |pname: gsd-print-notif |state: 1
|pname: gsd-rfkill |state: 1
|pname: gsd-screensaver |state: 1
           d: 1158
d: 1159
                             1162
pid: 1164
pid: 1167
                                                            |pname: gsd-sharing |state: 1
                                                          | pname: gsd-snartng | state: 1
| pname: gsd-smartcard | state: 1
| pname: gsd-sound | state: 1
| pname: gsd-wacom | state: 1
| pname: gdm-session-wor | state: 1
| pname: gdm-x-session | state: 1
                             1169
                            1173
 pid: 1240
                            1266
                                                         | pname: gdm-x-session | state: 1 | pname: Xorg | state: 1 | pname: gnome-session-b | state: 1 | pname: ssh-agent | state: 1 | pname: gnome-shell | state: 1 | pname: ibus-daemon | state: 1 | pname: ibus-dconf | state:
                            1268
 pid: 1279
             d: 1374
                            1401
          id: 1435
             d: 1439
                            1658
                                                           |pname: ibus-engine-sim |state: 1
                                                          |pname: gsd-power |state: 1
|pname: gsd-print-notif |state: 1
|pname: gsd-rfkill |state: 1
           d: 1511
            d: 1512
                             1514
                                                        |pname: gsd-rfkill |state: 1
|pname: gsd-screensaver |state: 1
|pname: gsd-sharing |state: 1
|pname: gsd-xsettings |state: 1
|pname: gsd-wacom |state: 1
|pname: gsd-sound |state: 1
|pname: gsd-smartcard |state: 1
|pname: gsd-aliy-settin |state: 1
|pname: gsd-color |state: 1
|pname: gsd-datetime |state: 1
|pname: gsd-datetime |state: 1
           d: 1515
d: 1516
                            1517
                            1520
            d: 1522
              d: 1525
                             1543
            d: 1547
             d: 1548
                             1550
           d: 1551 |pname: gsd-housekeepin |state: 1
d: 1554 |pname: gsd-keyboard |state: 1
d: 1555 |pname: gsd-media-keys |state: 1
          d: 1557 | pname: gsd-mouse | state: 1
id: 1557 | pname: gsd-mouse | state: 1
id: 1614 | pname: gsd-disk-utilit | state: 1
id: 1615 | pname: nautilus-deskto | state: 1
id: 1749 | pname: gnome-software | state: 1
id: 1751 | pname: update-notifier | state: 1
id: 2013 | pname: deja-dup-monito | state: 1
                             924 |pname: whoopsie |state:
```

```
3470.788881
3470.788882
                                           933
                                           972
                                           973
                                           988
                                           1089
                                           1094
                                           1096
                                           1099
                                           1122
                                                       | pname: tous-portal state: 1
| pname: upowerd | state: 1
| pname: rtkit-daemon | state: 1
| pname: ibus-x11 | state: 1
| pname: boltd | state: 1
| pname: packagekitd | state: 1
                                           1070
                                           1101
                                           1119
                                           1129
                                           1130
                                                       |pname: colord |state: 1
|pname: systemd |state: 1
|pname: (sd-pam) |state: 1
                                           1224
                                           1248
                                           1249
                                                       |pname: dbus-daemon |state: 1
|pname: at-spi-bus-laun |state: 1
|pname: dbus-daemon |state: 1
                                           1275
                                           1376
                                           1381
                                                        |pname: at-spi2-registr |state: 1
|pname: gvfsd |state: 1
|pname: gvfsd-trash |state: 1
                                           1384
                                           1407
                                           1637
                                                       |pname: gvfsd-network |state: 1
|pname: gvfsd-dnssd |state: 1
                                           4387
                                           4413
                                                       | pname: gvrsd-fusse | state: 1
| pname: ibus-portal | state: 1
| pname: evolution-sourc | state: 1
| pname: dconf-service | state: 1
                                           1412
                                           1443
                                           1460
                                           1470
                                                       | pname: gyfs-udisks2-vo | state: 1
| pname: gnome-shell-cal | state: 1
| pname: gyfs-mtp-volume | state: 1
| pname: gyfs-afc-volume | state: 1
| pname: gyfs-gphoto2-vo | state: 1
                                           1477
                                           1454
                                           1483
                                           1487
                                           1499
                                                        |pname: goa-daemon |state: 1
|pname: goa-identity-se |state:
|pname: gvfs-goa-volume |state:
                                           1476
                                           1494
                                           1507
                                                        |pname: evolution-calen |state: 1
|pname: evolution-calen |state: 1
                                           1652
                                           1679
                                                       | pname: evolution-caten | state: 1
| pname: evolution-addre | state: 1
| pname: evolution-addre | state: 1
| pname: gnome-terminal- | state: 1
| pname: sudo | state: 1
                                           1695
                                           1705
                                           1731
                                           1741
                                           5862
```

```
| 3470.788944 | pid: 5863 | pname: insmod | state: 0 |
| 3470.788971 | pid: 1842 | pname: code | state: 1 |
| 3470.788971 | pid: 1844 | pname: code | state: 1 |
| 3470.788972 | pid: 4431 | pname: code | state: 1 |
| 3470.788973 | pid: 4453 | pname: code | state: 1 |
| 3470.788974 | pid: 4455 | pname: code | state: 1 |
| 3470.788974 | pid: 4507 | pname: Microsoft.VSCod | state: 1 |
| 3470.788975 | pid: 4834 | pname: gyfsd-metadata | state: 1 |
| 3470.788977 | pid: 4834 | pname: pulseaudio | state: 1 |
| 3470.788978 | pid: 1423 | pname: pulseaudio | state: 1 |
| 3470.788979 | pid: 1579 | pname: sysd-printer | state: 1 |
| 3470.788989 | pid: 1579 | pname: wtoolsd | state: 1 |
| 3470.788980 | pid: 1560 | pname: wtoolsd | state: 1 |
| 3470.788981 | pid: 1620 | pname: wthreadd | state: 1 |
| 3470.788981 | pid: 2 | pname: kthreadd | state: 1 |
| 3470.788982 | pid: 4 | pname: rcu_gp | state: 1026 |
| 3470.788983 | pid: 4 | pname: rcu_par_gp | state: 1026 |
| 3470.788984 | pid: 9 | pname: kworker/0:0H | state: 1026 |
| 3470.788984 | pid: 9 | pname: ksoftirqd/0 | state: 1 |
| 3470.788986 | pid: 10 | pname: rcu_sched | state: 1 |
| 3470.788987 | pid: 11 | pname: rcu_sched | state: 1 |
| 3470.788988 | pid: 12 | pname: migration/0 | state: 1 |
| 3470.788989 | pid: 12 | pname: watchdog/0 | state: 1 |
| 3470.788989 | pid: 15 | pname: kworker/0:0H | state: 1 |
| 3470.788989 | pid: 15 | pname: kworthpfs | state: 1 |
| 3470.788989 | pid: 12 | pname: kworthpfs | state: 1 |
| 3470.788989 | pid: 12 | pname: ksoftirqd/0 | state: 1 |
| 3470.788999 | pid: 13 | pname: kworthpfs | state: 1 |
| 3470.788999 | pid: 15 | pname: kworthpfs | state: 1 |
| 3470.788999 | pid: 15 | pname: kworthpfs | state: 1 |
| 3470.788999 | pid: 15 | pname: kworthpfs | state: 1 |
| 3470.788999 | pid: 19 | pname: khungtaskd | state: 1 |
| 3470.788999 | pid: 20 | pname: ksoditd | state: 1 |
| 3470.788999 | pid: 21 | pname: ksoditd | state: 1 |
| 3470.788999 | pid: 22 | pname: koopacidd | state: 1 |
| 3470.788999 | pid: 25 | pname: khungtaskd | state: 1 |
| 3470.
```

```
3470.789001 ptd: 33 |pname: watchdogd |state: 1

3470.789002 ptd: 36 |pname: kswapd0 |state: 1

3470.789003 ptd: 37 |pname: kworker/u257:0 |state: 1026

3470.789003 ptd: 38 |pname: ecryptfs-kthrea |state: 1

3470.789004 ptd: 83 |pname: kthrotld |state: 1026

3470.789005 ptd: 84 |pname: acpt_thermal_pm |state: 1026

3470.789006 ptd: 85 |pname: scsi_eh_0 | state: 1026

3470.789007 ptd: 87 |pname: scsi_eh_1 | state: 1026

3470.789009 ptd: 88 |pname: scsi_tmf_0 |state: 1026

3470.789009 ptd: 88 |pname: scsi_tmf_1 |state: 1026

3470.789009 ptd: 88 |pname: scsi_tmf_1 |state: 1026

3470.789009 ptd: 89 |pname: scsi_tmf_1 |state: 1026

3470.789001 ptd: 104 |pname: scsi_tmf_1 |state: 1026

3470.789011 ptd: 104 |pname: kstrp |state: 1026

3470.789012 ptd: 104 |pname: kstrp |state: 1026

3470.789013 ptd: 171 |pname: charger_manager |state: 1026

3470.789013 ptd: 172 |pname: mpt_poll_0 |state: 1026

3470.789013 ptd: 172 |pname: mpt_poll_0 |state: 1026

3470.789013 ptd: 173 |pname: scsi_tmf_2 |state: 1026

3470.789014 ptd: 175 |pname: scsi_tmf_3 |state: 1026

3470.789017 ptd: 176 |pname: scsi_tmf_3 |state: 1026

3470.789017 ptd: 178 |pname: scsi_tmf_4 |state: 1026

3470.789017 ptd: 178 |pname: scsi_tmf_5 |state: 1026

3470.789019 ptd: 181 |pname: scsi_tmf_6 |state: 1026

3470.789020 ptd: 181 |pname: scsi_tmf_6 |state: 1026

3470.789021 ptd: 181 |pname: scsi_tmf_6 |state: 1026

3470.789021 ptd: 181 |pname: scsi_tmf_8 |state: 1

3470.789021 ptd: 184 |pname: scsi_tmf_8 |state: 1

3470.789022 ptd: 185 |pname: scsi_tmf_8 |state: 1

3470.789021 ptd: 184 |pname: scsi_tmf_8 |state: 1

3470.789022 ptd: 185 |pname: scsi_tmf_1 |state: 1026

3470.789023 ptd: 187 |pname: scsi_tmf_1 |state: 1026

3470.789024 ptd: 188 |pname: scsi_tmf_1 |state: 1026

3470.789025 ptd: 189 |pname: scsi_tmf_1 |state: 1026

3470.789029 ptd: 189 |pname: scsi_tmf_1 |state: 1026

3470.789029 ptd: 191 |pname: scsi_tmf_1 |state: 1026

3470.789029 ptd: 192 |pname: scsi_tmf_1 |state: 1026

3470.789030 ptd: 197 |pname: scsi_tmf_1 |state: 1026

3470.789031 ptd: 200 |pn
```

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3470.789035 ptd: 203 | pname: scsi_eh_17 | state: 1
3470.789035 ptd: 204 | pname: scsi_eh_18 | state: 1
3470.789036 ptd: 205 | pname: scsi_eh_18 | state: 1
3470.789037 ptd: 206 | pname: scsi_eh_18 | state: 1
3470.789037 ptd: 207 | pname: scsi_eh_19 | state: 1
3470.789038 ptd: 208 | pname: scsi_eh_19 | state: 1
3470.789039 ptd: 209 | pname: scsi_eh_20 | state: 1
3470.789039 ptd: 210 | pname: scsi_eh_20 | state: 1
3470.789040 ptd: 211 | pname: scsi_eh_21 | state: 1026
3470.789041 ptd: 212 | pname: scsi_eh_21 | state: 1
3470.789041 ptd: 213 | pname: scsi_eh_21 | state: 1
3470.789042 ptd: 214 | pname: scsi_eh_22 | state: 1026
3470.789043 ptd: 215 | pname: scsi_eh_22 | state: 1026
3470.789044 ptd: 215 | pname: scsi_eh_23 | state: 1026
3470.789044 ptd: 216 | pname: scsi_eh_24 | state: 1026
3470.789044 ptd: 217 | pname: scsi_eh_23 | state: 1026
3470.789044 ptd: 217 | pname: scsi_eh_24 | state: 1026
3470.789045 ptd: 218 | pname: scsi_eh_25 | state: 1
3470.789046 ptd: 220 | pname: scsi_eh_25 | state: 1
3470.789047 ptd: 221 | pname: scsi_eh_26 | state: 1
3470.789049 ptd: 222 | pname: scsi_eh_27 | state: 1
3470.789049 ptd: 222 | pname: scsi_eh_27 | state: 1
3470.789049 ptd: 222 | pname: scsi_eh_27 | state: 1
3470.789049 ptd: 223 | pname: scsi_eh_28 | state: 1
3470.789049 ptd: 224 | pname: scsi_eh_28 | state: 1
3470.789050 ptd: 225 | pname: scsi_eh_28 | state: 1
3470.789051 ptd: 227 | pname: scsi_eh_29 | state: 1
3470.789052 ptd: 228 | pname: scsi_eh_29 | state: 1
3470.789054 ptd: 227 | pname: scsi_eh_29 | state: 1
3470.789055 ptd: 228 | pname: scsi_eh_29 | state: 1
3470.789059 ptd: 230 | pname: scsi_eh_29 | state: 1
3470.789050 ptd: 231 | pname: scsi_eh_31 | state: 1
3470.789051 ptd: 230 | pname: scsi_eh_31 | state: 1
3470.789051 ptd: 230 | pname: scsi_eh_32 | state: 1
3470.789051 ptd: 230 | pname: scsi_eh_32 | state: 1
3470.789051 ptd: 236 | pname: loop1 | state: 1
3470.789050 ptd: 348 | pname: loop6 | state: 1
3470.789060 ptd: 351 | pname: loop7 | state: 1
3470.789060 ptd: 353 | pname: loop6 | state: 1
3470.789061 ptd:
```

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3470.789066] pid: 367 | pname: loop10 | state: 1
3470.789066] pid: 368 | pname: loop11 | state: 1
3470.789067] pid: 371 | pname: loop12 | state: 1
3470.789068] pid: 372 | pname: loop13 | state: 1
3470.789068] pid: 374 | pname: loop14 | state: 1
3470.789069] pid: 378 | pname: loop15 | state: 1
3470.789070] pid: 380 | pname: loop15 | state: 1
3470.789071] pid: 382 | pname: loop16 | state: 1
3470.789071] pid: 383 | pname: loop17 | state: 1
3470.789071] pid: 383 | pname: loop18 | state: 1
3470.789072] pid: 384 | pname: loop19 | state: 1
3470.789073] pid: 387 | pname: loop20 | state: 1
3470.789073] pid: 388 | pname: loop21 | state: 1
3470.789074] pid: 390 | pname: loop22 | state: 1
3470.789075] pid: 398 | pname: loop23 | state: 1
3470.789076] pid: 478 | pname: trg_swap | state: 1026
3470.789077] pid: 545 | pname: kworker/u257:1 | state: 1026
3470.789078] pid: 1428 | pname: kworker/u257:1 | state: 1026
3470.789079] pid: 4772 | pname: kworker/u256:2 | state: 1026
```