



rvu@rvu-OptiPlex-SFF-7020: ~/desktop



GNU nano 7.2

p1.c

```
#!/bin/bash
echo "Parent PID:$$"
sleep 20 &
ps -o pid,ppid,cmd
```

[ Read 4 lines ]

<b>^G</b> Help	<b>^O</b> Write Out	<b>^W</b> Where Is	<b>^K</b> Cut	<b>^T</b> Execute	<b>^C</b> Location	<b>M-U</b> Undo	<b>M-A</b> Set Mark	<b>M-J</b> To Bracket
<b>^X</b> Exit	<b>^R</b> Read File	<b>^V</b> Replace	<b>^U</b> Paste	<b>^J</b> Justify	<b>^/</b> Go To Line	<b>M-E</b> Redo	<b>M-6</b> Copy	<b>^Q</b> Where Was

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```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ pstree -p
systemd(1)
└─ModemManager(1288)
   ├─{ModemManager}(1310)
   ├─{ModemManager}(1311)
   └─{ModemManager}(1314)
   └─NetworkManager(1253)
      ├─{NetworkManager}(1315)
      ├─{NetworkManager}(1316)
      └─{NetworkManager}(1317)
   └─accounts-daemon(1146)
      ├─{accounts-daemon}(1190)
      ├─{accounts-daemon}(1191)
      └─{accounts-daemon}(1237)
   └─avahi-daemon(1114) └─avahi-daemon(1168)
   └─bluetoothd(1115)
   └─colord(1433) └─{colord}(1446)
      ├─{colord}(1447)
      └─{colord}(1449)
   └─cron(1148)
   └─cups-browsed(3130) └─{cups-browsed}(3139)
      ├─{cups-browsed}(3140)
      └─{cups-browsed}(3141)
   └─cupsd(1410)
   └─dbus-daemon(1116)
   └─fwupd(6262) └─{fwupd}(6263)
      ├─{fwupd}(6264)
      ├─{fwupd}(6265)
      ├─{fwupd}(6266)
      └─{fwupd}(6268)
   └─gdm3(1431) └─gdm-session-wor(2102) └─gdm-wayland-ses(2254) └─gnome-session-b(2264) └─{gnome-session-b}(2320)
      ├─{gnome-session-b}(2321)
      └─{gnome-session-b}(2322)
         └─{gdm-wayland-ses}(2261)
         └─{gdm-wayland-ses}(2262)
         └─{gdm-wayland-ses}(2263)
            └─{gdm-session-wor}(2103)
            └─{gdm-session-wor}(2104)
            └─{gdm-session-wor}(2106)
   └─{gdm3}(1434)
```



rvu@rvu-OptiPlex-SFF-7020: ~/desktop



```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ hello.c
hello.c: command not found
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ad
Command 'ad' not found, but can be installed with:
sudo apt install netatalk
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ raghu
raghu: command not found
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ hello
Command 'hello' not found, but can be installed with:
sudo snap install hello          # version 2.10, or
sudo apt install hello          # version 2.10-3
sudo apt install hello-traditional # version 2.10-6
See 'snap info hello' for additional versions.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ cat hello.c
#include<stdio.h>
int main(){
printf("Hello");
return 0;
}
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ jobs
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ fg
bash: fg: current: no such job
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ bg
bash: bg: current: no such job
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ fg & bg
[1] 9859
bash: bg: job 1 already in background
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ bash: fg: no job control
^C
[1]+ Exit 1                  fg
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ fg & bg
[1] 9867
bash: bg: job 1 already in background
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ bash: fg: no job control
^C
[1]+ Exit 1                  fg
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ 
```



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(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ cat hello.c
#include<stdio.h>
int main(){
printf("Hello");
return 0;
}
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ jobs
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ fg
bash: fg: current: no such job
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ bg
bash: bg: current: no such job
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ fg & bg
[1] 9859
bash: bg: job 1 already in background
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ bash: fg: no job control
^C
[1]+ Exit 1                  fg
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ fg & bg
[1] 9867
bash: bg: job 1 already in background
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ bash: fg: no job control
^C
[1]+ Exit 1                  fg
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ kill
kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ 
```

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```
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ fg & bg
[1] 9867
bash: bg: job 1 already in background
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ bash: fg: no job control
^C
[1]+ Exit 1 fg
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ kill
kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ps
  PID TTY      TIME CMD
 8769 pts/0    00:00:00 bash
 9940 pts/0    00:00:00 ps
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ps
  PID TTY      TIME CMD
 8769 pts/0    00:00:00 bash
 9949 pts/0    00:00:00 ps
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ pstree
systemd─ModemManager─3*[{ModemManager}]
 └─NetworkManager─3*[{NetworkManager}]
 └─accounts-daemon─3*[{accounts-daemon}]
 └─avahi-daemon─avahi-daemon
 └─bluetoothd
 └─colord─3*[{colord}]
 └─cron
 └─cups-browsed─3*[{cups-browsed}]
 └─cupsd
 └─dbus-daemon
 └─fwupd─5*[{fwupd}]
 └─gdm3─gdm-session-wor─gdm-wayland-ses─gnome-session-b─3*[{gnome-session-b}]
   └─3*[{gdm-wayland-ses}]
   └─3*[{gdm-session-wor}]
   └─3*[{gdm3}]
 └─gnome-remote-de─3*[{gnome-remote-de}]
 └─2*[kerneloops]
 └─polkitd─3*[{polkitd}]
 └─power-profiles─3*[{power-profiles-}]
 └─rsyslogd─3*[{rsyslogd}]
```

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```
-systemd-resolve(858)
└─systemd-timesyn(859) └─{systemd-timesyn}(866)
  └─systemd-udevd(527)
    └─thermald(1153)   ├─{thermald}(1219)
                          ├─{thermald}(1220)
                          ├─{thermald}(1234)
                          └─{thermald}(1335)
    └─udisksd(1155)   ├─{udisksd}(1215)
                          ├─{udisksd}(1216)
                          ├─{udisksd}(1236)
                          ├─{udisksd}(1306)
                          └─{udisksd}(1322)
    └─unattended-upgr(1413) └─{unattended-upgr}(1439)
    └─upowerd(1327)      ├─{upowerd}(1330)
                          ├─{upowerd}(1331)
                          └─{upowerd}(1332)
  └─wpa_supplicant(1255)

(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sudo install gcc
[sudo] password for rvu:
sudo: a password is required
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ps -o pid
  PID
 8769
10078
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ps -o ppid
  PPID
 8762
 8769
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ps -o cmd
CMD
bash
ps -o cmd
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ps -o pid,ppid,cmd
  PID      PPID CMD
 8769      8762 bash
10087      8769 ps -o pid,ppid,cmd
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ 
```



rvu@rvu-OptiPlex-SFF-7020: ~/desktop



```
hello.c:4:8: error: 'o' undeclared (first use in this function)
 4 | return o;
   |
hello.c:4:8: note: each undeclared identifier is reported only once for each function it appears in
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano hello.c
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc hello.c -o ad
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ./ad
Hello(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 1/0
sleep: invalid time interval '1/0'
Try 'sleep --help' for more information.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 1000000
^C
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 30
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 1
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep &
[1] 9667
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep: missing operand
Try 'sleep --help' for more information.
^C
[1]+ Exit 1                  sleep
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 30 &
[1] 9678
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 30 &
[2] 9681
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 30 &
[3] 9682
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 40 &
[4] 9684
[1] Done                      sleep 30
[2] Done                      sleep 30
[3] Done                      sleep 30
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ jobs
[4]+ Done                      sleep 40
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ notepad.exe
notepad.exe: command not found
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ jobs
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ls
```

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```
gcc: fatal error: no input files
compilation terminated.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc -o RAGHU.c ./ff
/usr/bin/ld: cannot find ./ff: No such file or directory
collect2: error: ld returned 1 exit status
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc RAGHU.c -o a
cc1: fatal error: RAGHU.c: No such file or directory
compilation terminated.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc hello.c -o ad
hello.c:2:9: fatal error: conio.h: No such file or directory
  2 | #include<conio.h>
   | ^~~~~~
compilation terminated.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano hello.c
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc hello.c -o ad
hello.c: In function 'main':
hello.c:3:16: error: expected ';' before 'return'
  3 | printf("Hello")
   | ^~~~~~
  3 | printf("Hello")
   | ^~~~~~
  3 | ;
   |
  4 | return o;
   | ^~~~~~
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano hello.c
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc hello.c -o ad
hello.c: In function 'main':
hello.c:4:8: error: 'o' undeclared (first use in this function)
  4 | return o;
   | ^~~~~~
hello.c:4:8: note: each undeclared identifier is reported only once for each function it appears in
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano hello.c
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc hello.c -o ad
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ./ad
Hello(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ sleep 1/0
sleep: invalid time interval '1/0'
```

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```
(base) rvu@rvu-OptiPlex-SFF-7020:~$ ls
aditi Desktop documents Downloads f2.c hh Music Pictures Public RVUN25CSE416 temp Videos
anaconda3 directory Documents f1.c f.c likitha path project raghu snap Templates
(base) rvu@rvu-OptiPlex-SFF-7020:~$ mkdir desktop
(base) rvu@rvu-OptiPlex-SFF-7020:~$ cd desktop
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ cd raghu
bash: cd: raghu: No such file or directory
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ mkdir raghu
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ls
raghu
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ pwd
/home/rvu/desktop
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ls -l
total 4
drwxrwxr-x 2 rvu rvu 4096 Feb 10 14:10 raghu
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ ls -a
. ..
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc -o RAGHU.c
gcc: fatal error: no input files
compilation terminated.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc -o RAGHU.c ./ff
/usr/bin/ld: cannot find ./ff: No such file or directory
collect2: error: ld returned 1 exit status
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc RAGHU.c -o a
cc1: fatal error: RAGHU.c: No such file or directory
compilation terminated.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ gcc hello.c -o ad
hello.c:2:9: fatal error: conio.h: No such file or directory
 2 | #include<conio.h>
   |
   ^
compilation terminated.
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano
(base) rvu@rvu-OptiPlex-SFF-7020:~/desktop$ nano hello.c
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~$ touch poem.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ echo -e "There was once an alien from space.\nHe knew he was going to win the race.\nHe had a very handsome face.\nBut he left without a trace." > poem.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ wc poem.txt
    4   28 132 poem.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ █
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~$ touch plan.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ echo -e "Task 1:Make a HTML website\nTask 2: Make DLCO notes\nTask 3:Submit the C assignment"> plan.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ cat -n plan.txt
      1 Task 1:Make a HTML website
      2 Task 2: Make DLCO notes
      3 Task 3:Submit the C assignment
(base) rvu@rvu-OptiPlex-SFF-7020:~$ █
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~$ touch report.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ echo -e "This is a report.\nIt has two lines. "> report.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ wc report.txt
2 8 37 report.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ █
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~$ touch todo.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ echo -e "Task 1:Study Linux\nTask 2: Write code\nTask 3: Submit Assignment">todo.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ cat -n todo.txt
 1 Task 1:Study Linux
 2 Task 2: Write code
 3 Task 3: Submit Assignment
(base) rvu@rvu-OptiPlex-SFF-7020:~$
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~$ mkdir linux
(base) rvu@rvu-OptiPlex-SFF-7020:~$ cd linux
(base) rvu@rvu-OptiPlex-SFF-7020:~/linux$ 
(base) rvu@rvu-OptiPlex-SFF-7020:~/linux$ touch file1.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~/linux$ ls -l
total 0
-rw-rw-r-- 1 rvu rvu 0 Aug 28 12:31 file1.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~/linux$ chmod file1.txt
chmod: missing operand after 'file1.txt'
Try 'chmod --help' for more information.
(base) rvu@rvu-OptiPlex-SFF-7020:~/linux$ cat file1.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~/linux$ chmod 440 file1.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~/linux$ ls -l
total 0
-r----- 1 rvu rvu 0 Aug 28 12:31 file1.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~/linux$ █
```

```
(base) rvu@rvu-OptiPlex-SFF-7020:~$ touch dairy.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ ls -l dairy.txt
-rw-rw-r-- 1 rvu rvu 0 Aug 28 12:14 dairy.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ chmod 600 dairy.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$ ls -l dairy.txt
-rw----- 1 rvu rvu 0 Aug 28 12:14 dairy.txt
(base) rvu@rvu-OptiPlex-SFF-7020:~$
```