



Centro universitario de Ciencias Exactas e Ingenierías

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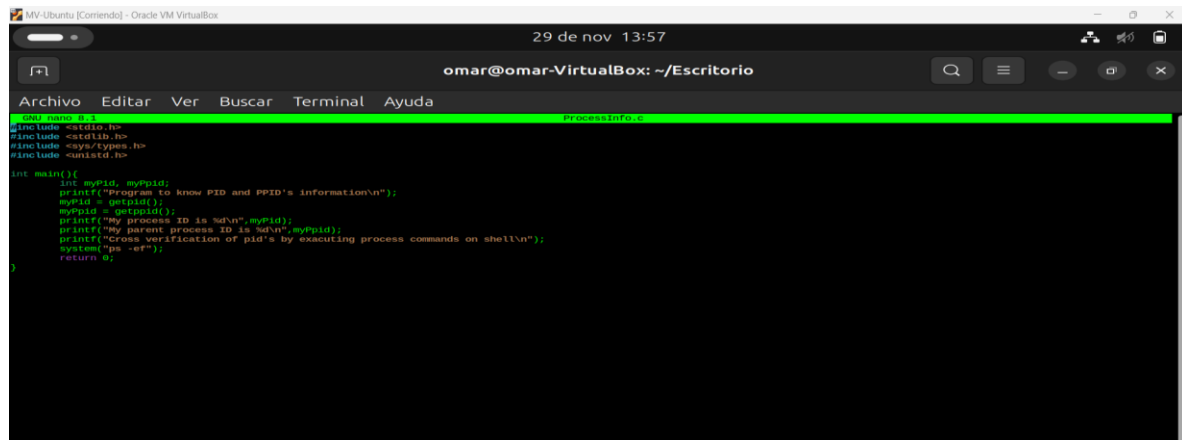
Maestro: José Antonio Avina Méndez

Materia: Sem. Uso, Sistemas Operativos

Tema: Hands-On 5

Fecha: 26/11/2024

Hands-On 5 Process Info



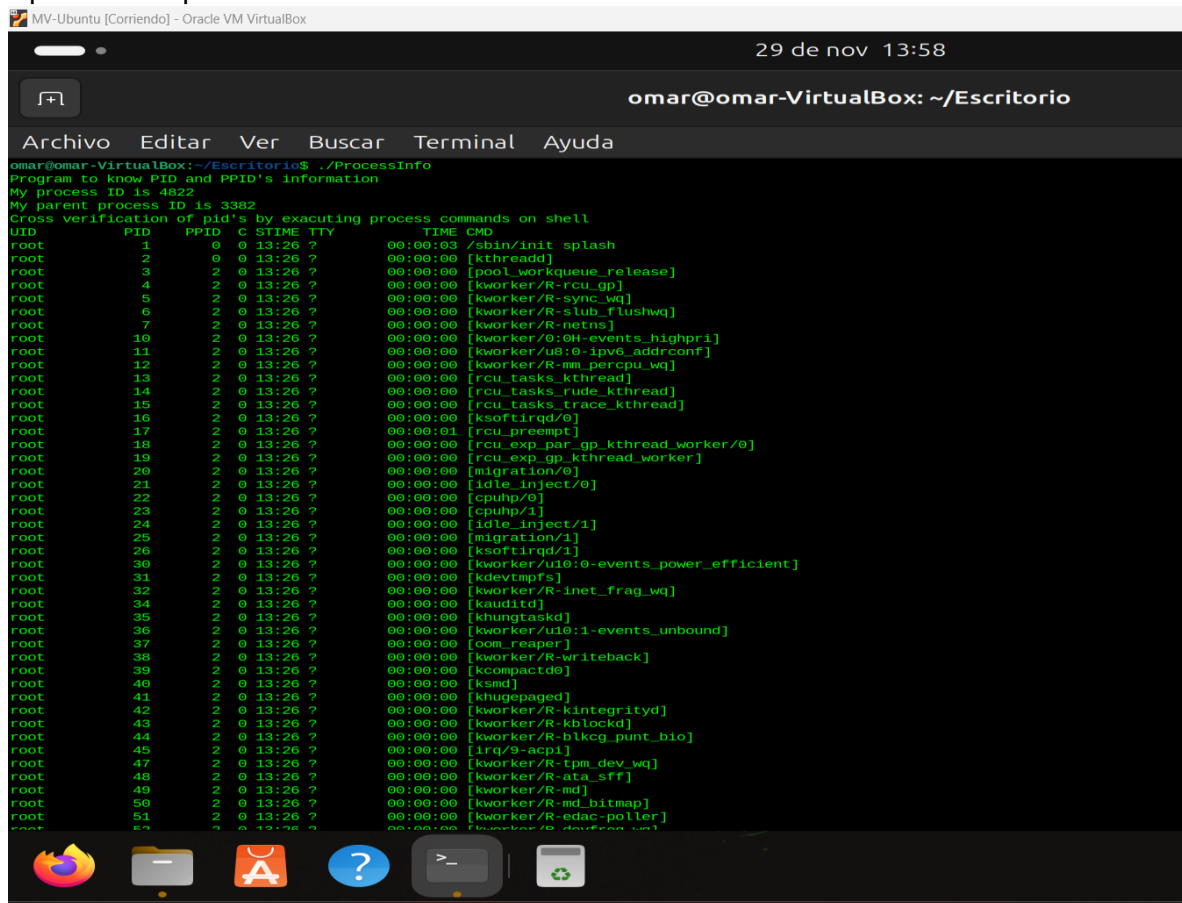
```
29 de nov 13:57
omar@omar-VirtualBox: ~/Escritorio

Archivo  Editar  Ver  Buscar  Terminal  Ayuda

ProcessInfo.c
#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <unistd.h>

int main(){
    int mypid, myppid;
    printf("Program to know PID and PPID's information\n");
    mypid = getpid();
    myppid = getppid();
    printf("My process ID is %d\n", mypid);
    printf("My parent process ID is %d\n", myppid);
    printf("Cross verification of pid's by executing process commands on shell\n");
    system("ps -ef");
    return 0;
}
```

Aplicación compilando:



```
29 de nov 13:58
omar@omar-VirtualBox: ~/Escritorio

Archivo  Editar  Ver  Buscar  Terminal  Ayuda

omar@omar-VirtualBox:~/Escritorio$ ./ProcessInfo
Program to know PID and PPID's information
My process ID is 4822
My parent process ID is 3382
Cross verification of pid's by executing process commands on shell
UID          PID    PPID  C  STIME TTY          TIME CMD
root         1        0  0 13:26 ?        00:00:03 /sbin/init splash
root         2        0  0 13:26 ?        00:00:00 [kthreadd]
root         3        2  0 13:26 ?        00:00:00 [pool_workqueue_release]
root         4        2  0 13:26 ?        00:00:00 [kworker/R-rcu_gp]
root         5        2  0 13:26 ?        00:00:00 [kworker/R-sync_wq]
root         6        2  0 13:26 ?        00:00:00 [kworker/R-slub_flushwq]
root         7        2  0 13:26 ?        00:00:00 [kworker/R-netns]
root        10        2  0 13:26 ?        00:00:00 [kworker/0:0H-events_highpri]
root        11        2  0 13:26 ?        00:00:00 [kworker/u8:0-ipv6_addrconf]
root        12        2  0 13:26 ?        00:00:00 [kworker/R-mm_percpu_wq]
root        13        2  0 13:26 ?        00:00:00 [rcu_tasks_kthread]
root        14        2  0 13:26 ?        00:00:00 [rcu_tasks_rude_kthread]
root        15        2  0 13:26 ?        00:00:00 [rcu_tasks_trace_kthread]
root        16        2  0 13:26 ?        00:00:00 [ksoftirqd/0]
root        17        2  0 13:26 ?        00:00:01 [rcu_preempt]
root        18        2  0 13:26 ?        00:00:00 [rcu_exp_par_gp_kthread_worker/0]
root        19        2  0 13:26 ?        00:00:00 [rcu_exp_gp_kthread_worker]
root        20        2  0 13:26 ?        00:00:00 [migration/0]
root        21        2  0 13:26 ?        00:00:00 [idle_inject/0]
root        22        2  0 13:26 ?        00:00:00 [cpuhp/0]
root        23        2  0 13:26 ?        00:00:00 [cpuhp/1]
root        24        2  0 13:26 ?        00:00:00 [idle_inject/1]
root        25        2  0 13:26 ?        00:00:00 [migration/1]
root        26        2  0 13:26 ?        00:00:00 [ksoftirqd/1]
root        30        2  0 13:26 ?        00:00:00 [kworker/u10:0-events_power_efficient]
root        31        2  0 13:26 ?        00:00:00 [kdevtmpfs]
root        32        2  0 13:26 ?        00:00:00 [kworker/R-inet_frag_wq]
root        34        2  0 13:26 ?        00:00:00 [kauditd]
root        35        2  0 13:26 ?        00:00:00 [khungtaskd]
root        36        2  0 13:26 ?        00:00:00 [kworker/u10:1-events_unbound]
root        37        2  0 13:26 ?        00:00:00 [oom_reaper]
root        38        2  0 13:26 ?        00:00:00 [kworker/R-writeback]
root        39        2  0 13:26 ?        00:00:00 [kcompactd0]
root        40        2  0 13:26 ?        00:00:00 [ksmd]
root        41        2  0 13:26 ?        00:00:00 [khugepaged]
root        42        2  0 13:26 ?        00:00:00 [kworker/R-kintegrityd]
root        43        2  0 13:26 ?        00:00:00 [kworker/R-kblockd]
root        44        2  0 13:26 ?        00:00:00 [kworker/R-blkcg_punt_bio]
root        45        2  0 13:26 ?        00:00:00 [irq/9-acpi]
root        47        2  0 13:26 ?        00:00:00 [kworker/R-tpm_dev_wq]
root        48        2  0 13:26 ?        00:00:00 [kworker/R-ata_sff]
root        49        2  0 13:26 ?        00:00:00 [kworker/R-md]
root        50        2  0 13:26 ?        00:00:00 [kworker/R-md_bitmap]
root        51        2  0 13:26 ?        00:00:00 [kworker/R-edac-poller]
root        52        2  0 13:26 ?        00:00:00 [kworker/R-dmufree_wq]
```

29 de nov 13:59



omar@omar-VirtualBox: ~/Escritorio



Archivo	Editar	Ver	Buscar	Terminal	Ayuda
root	51	2	0 13:26 ?	00:00:00 [kworker/R-rtc-pollter]	
root	52	2	0 13:26 ?	00:00:00 [kworker/R-devfreq-wq]	
root	53	2	0 13:26 ?	00:00:00 [watchdogd]	
root	54	2	0 13:26 ?	00:00:00 [kworker/1:1H-kblockd]	
root	55	2	0 13:26 ?	00:00:00 [kswapd0]	
root	56	2	0 13:26 ?	00:00:00 [ecryptfs-kthread]	
root	57	2	0 13:26 ?	00:00:00 [kworker/R-kthrotld]	
root	58	2	0 13:26 ?	00:00:00 [kworker/R-nopli_thermal_pm]	
root	61	2	0 13:26 ?	00:00:00 [scsi_eh_0]	
root	62	2	0 13:26 ?	00:00:00 [kworker/R-scsi_tmf_0]	
root	63	2	0 13:26 ?	00:00:00 [scsi_eh_1]	
root	64	2	0 13:26 ?	00:00:00 [kworker/R-scsi_tmf_1]	
root	66	2	0 13:26 ?	00:00:00 [kworker/R-mld]	
root	67	2	0 13:26 ?	00:00:00 [kworker/R-ipv6_addrconf]	
root	69	2	0 13:26 ?	00:00:00 [kworker/u1:1-ipv6_addrconf]	
root	71	2	0 13:26 ?	00:00:00 [kworker/1:2-cgroup_destroy]	
root	77	2	0 13:26 ?	00:00:00 [kworker/R-kstrp]	
root	79	2	0 13:26 ?	00:00:00 [kworker/u1:0]	
root	80	2	0 13:26 ?	00:00:00 [kworker/u1:0-ttm]	
root	81	2	0 13:26 ?	00:00:00 [kworker/u1:0-ttm]	
root	94	2	0 13:26 ?	00:00:00 [kworker/R-charger_manager]	
root	95	2	0 13:26 ?	00:00:00 [kworker/u1:0]	
root	143	2	0 13:26 ?	00:00:00 [kworker/1:3-events]	
root	144	2	0 13:26 ?	00:00:00 [scsi_eh_2]	
root	145	2	0 13:26 ?	00:00:00 [kworker/R-scsi_tmf_2]	
root	204	2	0 13:26 ?	00:00:00 [jbd2/sda2-8]	
root	205	2	0 13:26 ?	00:00:00 [kworker/R-ext4-rsv-conversion]	
root	254	1	0 13:26 ?	00:00:00 /usr/lib/systemd/systemd-journald	
root	313	1	0 13:26 ?	00:00:00 /usr/lib/systemd/systemd-udev	
root	320	2	0 13:26 ?	00:00:00 [psimon]	
root	412	2	0 13:26 ?	00:00:00 [irq/48-vmwgfx]	
root	415	2	0 13:26 ?	00:00:00 [kworker/R-ttm]	
systemd+	560	1	0 13:26 ?	00:00:01 /usr/lib/systemd/systemd-oomd	
systemd+	572	1	0 13:26 ?	00:00:00 /usr/lib/systemd/systemd-resolved	
systemd+	575	1	0 13:26 ?	00:00:00 /usr/lib/systemd/systemd-timesyncd	
root	601	2	0 13:26 ?	00:00:00 [kworker/R-cryptd]	
avahi	964	1	0 13:26 ?	00:00:00 avahi-daemon: running [omar-VirtualBox.local]	
message+	966	1	0 13:26 ?	00:00:01 dbus-daemon --system --address=systemd: --nofork --nopidfile --systemd-activation --syslog-only	
gnome-r+	982	1	0 13:26 ?	00:00:00 /usr/libexec/gnome-remote-desktop-daemon --system	
polkitd	1009	1	0 13:26 ?	00:00:00 /usr/lib/polkit-1/polkitd --no-debug	
root	1019	1	0 13:26 ?	00:00:01 /usr/lib/swapd/swapd	
root	1020	1	0 13:26 ?	00:00:00 /usr/libexec/accounts-daemon	
root	1031	1	0 13:26 ?	00:00:00 /usr/sbin/cron -f -p	
root	1032	1	0 13:26 ?	00:00:00 /usr/libexec/switcheroo-control	
root	1042	1	0 13:26 ?	00:00:00 /usr/lib/systemd/systemd-logind	
root	1047	1	0 13:26 ?	00:00:00 /usr/libexec/udisks2/udisksd	
avahi	1063	964	0 13:26 ?	00:00:00 avahi-daemon: chroot helper	
root	1069	1	0 13:26 ?	00:00:00 /usr/sbin/NetworkManager --no-daemon	
root	1072	1	0 13:26 ?	00:00:00 /usr/sbin/wpa_supplicant -u -s -O DIR=/run/wpa_supplicant GROUP=netdev	
syslog	1078	1	0 13:26 ?	00:00:00 /usr/sbin/rsyslogd -n -iNONE	
root	1174	1	0 13:26 ?	00:00:00 /usr/sbin/ModemManager	

29 de nov 14:00



omar@omar-VirtualBox: ~/Escritorio



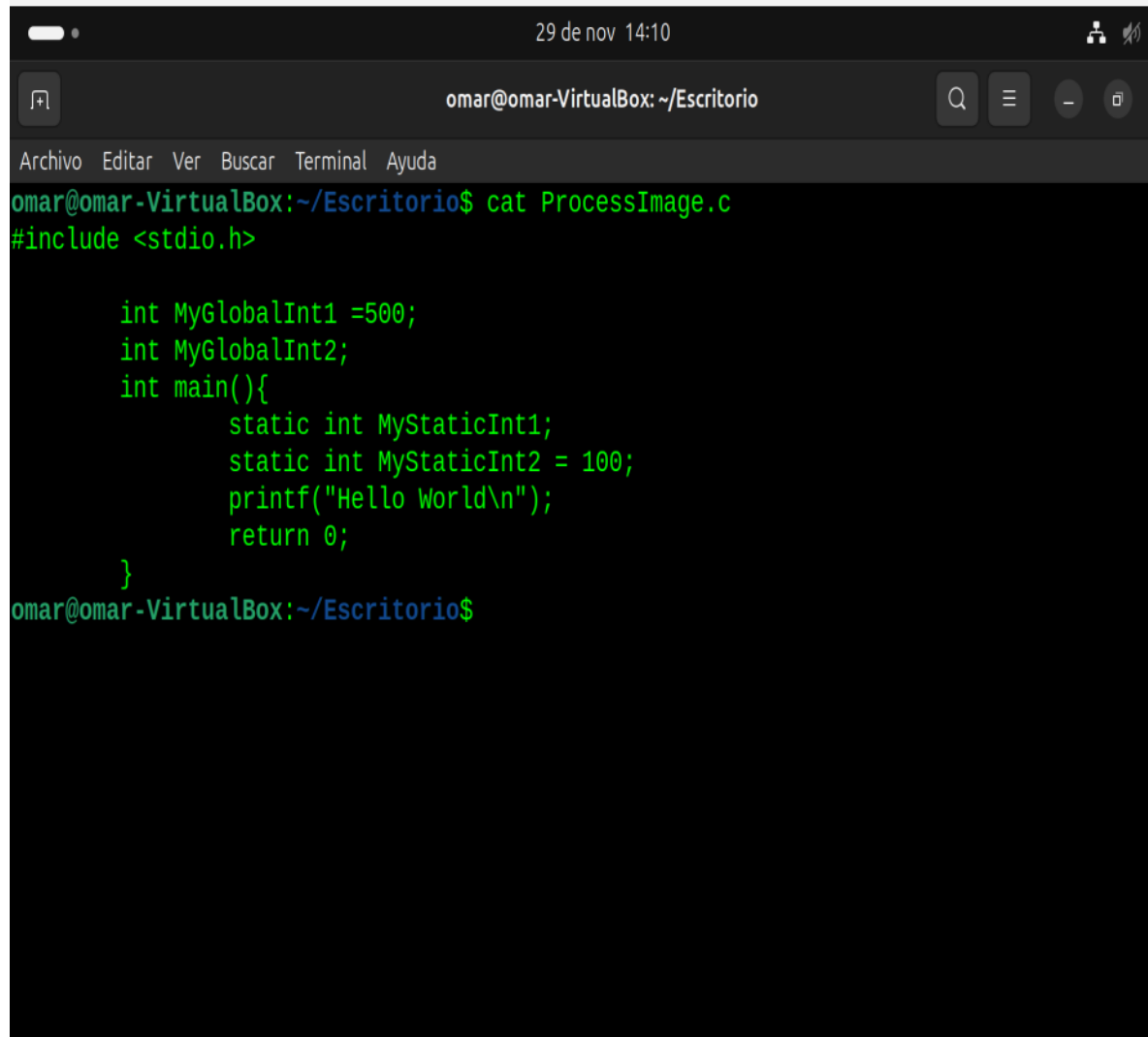
Archivo	Editar	Ver	Buscar	Terminal	Ayuda
root	1174	1	0 13:26 ?	00:00:00 /usr/sbin/ModemManager	
root	1196	2	0 13:26 ?	00:00:00 [kworker/1:2H]	
root	1297	1	0 13:26 ?	00:00:00 /usr/sbin/cupsd -l	
root	1308	1	0 13:26 ?	00:00:00 /usr/bin/systemd /usr/share/unattended-upgrades/unattended-upgrade-shutdown --wait-for-signal	
root	1316	1	0 13:26 ?	00:00:00 /usr/sbin/gdm3	
root	1321	2	0 13:26 ?	00:00:00 [sdmcm]	
rtkit	1376	1	0 13:26 ?	00:00:00 /usr/libexec/rtkit-daemon	
cups-br+	1461	1	0 13:26 ?	00:00:00 /usr/sbin/cups-browsed	
colord	1567	1	0 13:26 ?	00:00:00 /usr/libexec/colord	
root	1546	1	0 13:26 ?	00:00:00 /usr/libexec/upowerd	
root	1728	2	0 13:26 ?	00:00:00 [kworker/u1:1]	
root	1739	1	0 13:26 ?	00:00:00 /usr/libexec/power-profiles-daemon	
root	1862	1310	0 13:27 ?	00:00:00 gdm-session-worker [pam/gdm-password]	
user	1930	1	0 13:27 ?	00:00:00 /usr/lib/systemd/system --user	
user	1937	1930	0 13:27 ?	00:00:00 (sd-pam)	
user	1956	1930	0 13:27 ?	00:00:00 /usr/bin/pipewire	
user	1956	1930	0 13:27 ?	00:00:00 /usr/bin/pipewire -c filter-chain.conf	
user	1967	1930	0 13:27 ?	00:00:00 /usr/bin/pipewire-pulse	
user	1972	1930	0 13:27 ?	00:00:01 /usr/bin/dbus-daemon --session --address=systemd: --nofork --nopidfile --systemd-activation --syslog-only	
user	1973	1930	0 13:27 ?	00:00:00 /usr/bin/gnome-keyring-daemon --foreground --component=gssapi,secrets --control-directory=/run/user/1000/keyring	
user	2007	1930	0 13:27 ?	00:00:00 /usr/libexec/gdm-document-portal	
user	2016	1930	0 13:27 ?	00:00:00 /usr/libexec/gdm-permission-store	
user	2025	1892	0 13:27 tty2	00:00:00 /usr/libexec/gdm-wayland-session env GNOME_SHELL_SESSION_MODE=ubuntu /usr/bin/gnome-session --session=ubuntu	
user	2025	2025	0 13:27 tty2	00:00:00 /usr/libexec/gnome-session-binary --session=ubuntu	
root	2044	2007	0 13:27 ?	00:00:00 fusermount3 -o rw,nosuid,nodev,fsname=portal,auto_unmount,subtypes=portal -- /run/user/1000/doc	
user	2125	1930	0 13:27 ?	00:00:00 /usr/libexec/gcr-gsh-agent --base-dir /run/user/1000/gcr	
user	2137	1930	0 13:27 ?	00:00:00 /usr/libexec/gvfsd	
user	2150	1930	0 13:27 ?	00:00:00 /usr/libexec/gvfsd-fuse /run/user/1000/gvfs -f	
user	2153	1930	0 13:27 ?	00:00:00 /usr/libexec/gnome-session-binary --systemd-service --session=ubuntu	
user	2209	1930	0 13:27 ?	00:04:55 /usr/bin/gnome-shell	
user	2211	2153	0 13:27 ?	00:00:00 /usr/libexec/at-spi-bus-launcher --launch-immediately	
user	2234	2211	0 13:27 ?	00:00:00 /usr/bin/dbus-daemon --config:files=/usr/share/defaults/at-spi2/accessibility.conf --nofork --print-address 11 --addressunix:paths=/run/u	
user	2260	1930	0 13:27 ?	00:00:00 /usr/libexec/at-spi2-registeryd --use-gnome-session	
user	2308	1930	0 13:27 ?	00:00:00 /usr/libexec/gnome-shell-calendar-server	
user	2320	1930	0 13:27 ?	00:00:00 /usr/libexec/gnome-shell-source-eggplant	
user	2328	1930	0 13:27 ?	00:00:00 /usr/bin/gjs -m /usr/share/gnome-shell/org.gnome.Shell.Notifications	
user	2329	2209	0 13:27 ?	00:00:00 /usr/bin/wayland-0 -rootless -noreset -accessx -core -auth /run/user/1000/.mutter-waylandauth.VAT0X2 -listenfd 4 -listenfd 5 -display	
user	2337	1930	0 13:27 ?	00:00:05 /usr/bin/dbus-daemon --pam1 disable	
user	2339	1930	0 13:27 ?	00:00:00 /usr/libexec/gsd-ally-settings	
user	2340	1930	0 13:27 ?	00:00:00 /usr/libexec/gsd-color	
user	2344	1930	0 13:27 ?	00:00:00 /usr/libexec/gsd-datetime	
user	2350	1930	0 13:27 ?	00:00:00 /usr/libexec/gsd-housekeeping	
user	2351	1930	0 13:27 ?	00:00:00 /usr/libexec/gsd-keyboard	
user	2353	1930	0 13:27 ?	00:00:00 /usr/libexec/gsd-media-keys	
user	2360	1930	0 13:27 ?	00:00:00 /usr/libexec/gsd-power	
user	2367	1930	0 13:27 ?	00:00:00 /usr/libexec/gsd-print-notifications	
user	2368	1930	0 13:27 ?	00:00:00 /usr/libexec/gsd-rfkill	
user	2374	1930	0 13:27 ?	00:00:00 /usr/libexec/gsd-screensaver-proxy	
user	2377	1930	0 13:27 ?	00:00:00 /usr/libexec/gsd-thermald	

```
29 de nov 14:00
omar@omar-VirtualBox: ~/Escritorio

Archivo  Editar  Ver  Buscar  Terminal  Ayuda

omar 2367 1930 0 13:27 ? 00:00:00 /usr/libexec/gsd-print-notifications
omar 2368 1930 0 13:27 ? 00:00:00 /usr/libexec/gsd-rfkill
omar 2374 1930 0 13:27 ? 00:00:00 /usr/libexec/gsd-screensaver-proxy
omar 2377 1930 0 13:27 ? 00:00:00 /usr/libexec/gsd-sharing
omar 2379 1930 0 13:27 ? 00:00:00 /usr/libexec/gsd-smartcard
omar 2387 1930 0 13:27 ? 00:00:00 /usr/libexec/gsd-sound
omar 2388 1930 0 13:27 ? 00:00:00 /usr/libexec/gsd-wacom
omar 2399 2153 0 13:27 ? 00:00:00 /usr/libexec/gsd-disk-utility-notify
omar 2413 2153 0 13:27 ? 00:00:00 /usr/libexec/evolution-data-server/evolution-alarm-notify
omar 2483 1930 0 13:27 ? 00:00:00 /usr/libexec/gvfs/udisks2-volume-monitor
omar 2489 1930 0 13:27 ? 00:00:00 /usr/libexec/gsd-dmamon
omar 2490 2337 0 13:27 ? 00:00:00 /usr/libexec/ibus-meeconf
omar 2493 2337 0 13:27 ? 00:00:00 /usr/libexec/ibus-extension-gtk3
omar 2499 1930 0 13:27 ? 00:00:00 /snap/snapd-desktop-integration/253/usr/bin/snapd-desktop-integration
omar 2585 1930 0 13:27 ? 00:00:00 /usr/libexec/ibus-portal
omar 2587 1930 0 13:27 ? 00:00:00 /usr/libexec/gsd-p-intel
omar 2612 1930 0 13:27 ? 00:00:00 /usr/libexec/gsd-identity-service
omar 2619 1930 0 13:27 ? 00:00:00 /snap/snapd-desktop-integration/253/usr/bin/snapd-desktop-integration
omar 2620 1930 0 13:27 ? 00:00:00 /usr/libexec/gvfs-goa-volume-monitor
omar 2625 1930 0 13:27 ? 00:00:00 /usr/libexec/gvfs-mtp-volume-monitor
omar 2647 1930 0 13:27 ? 00:00:00 /usr/libexec/gvfs-usb-volume-monitor
omar 2655 1930 0 13:27 ? 00:00:00 /usr/libexec/gvfs-afc-volume-monitor
omar 2656 1930 0 13:27 ? 00:00:00 /usr/libexec/evolution-addressbook-factory
omar 2687 2337 0 13:27 ? 00:00:01 /usr/libexec/ibus-engine-simple
omar 2714 1930 0 13:27 ? 00:00:00 /usr/libexec/dconf-service
omar 2722 2137 0 13:27 ? 00:00:00 /usr/libexec/gvfsd-trash --spawner :1.21 /org/gtk/gvfs/exec_spaw/0
omar 2765 1930 0 13:27 ? 00:00:00 /usr/libexec/xdg-desktop-portal
omar 2773 1930 0 13:27 ? 00:00:00 /usr/libexec/gsd-seetings
omar 2775 1930 0 13:27 ? 00:00:00 /usr/bin/gjs -m /usr/share/gnome-shell/org.gnome.ScreenSaver
omar 2815 2280 0 13:27 ? 00:00:00 gjs /usr/share/gnome-shell/extensions/dingbastersoft.com/app/ding.js -E -P /usr/share/gnome-shell/extensions/dingbastersoft.com/app
root 2816 2 0 13:27 ? 00:00:00 [worker/0:13:1]
omar 2865 1930 0 13:27 ? 00:00:00 /usr/libexec/ibus-x11
omar 2867 1930 0 13:27 ? 00:00:00 /usr/libexec/tracker-miner-fs-3
omar 2888 1930 0 13:27 ? 00:00:00 /usr/libexec/xdg-desktop-portal-gnome
omar 2876 2280 0 13:27 ? 00:00:00 /usr/libexec/mutter-x11-frames
omar 2877 1930 0 13:27 ? 00:00:00 /usr/libexec/gvfsd-metadata
omar 2877 1930 0 13:27 ? 00:00:00 /usr/libexec/xdg-desktop-portal-gtk
omar 2883 2153 0 13:28 ? 00:00:00 /usr/bin/update-notifier
omar 2877 1930 0 13:27 ? 00:00:00 /usr/libexec/gvfsd-metadata
omar 2903 1930 0 13:27 ? 00:00:00 /usr/libexec/xdg-desktop-portal-gtk
omar 2903 2153 0 13:28 ? 00:00:00 /usr/bin/update-notifier
omar 3373 1930 1 13:28 ? 00:00:21 /usr/libexec/gnome-terminal-server
omar 3382 3373 0 13:28 pts/0 00:00:00 bash
omar 3384 1930 0 13:28 ? 00:00:00 /usr/bin/nautilus --application-service
omar 3420 2137 0 13:28 ? 00:00:00 /usr/libexec/gvfsd-recent --spawner :1.21 /org/gtk/gvfs/exec_spaw/1
omar 3421 2137 0 13:28 ? 00:00:00 /usr/libexec/gvfsd-network --spawner :1.21 /org/gtk/gvfs/exec_spaw/2
omar 3434 2137 0 13:28 ? 00:00:00 /usr/libexec/gvfsd-dnssd --spawner :1.21 /org/gtk/gvfs/exec_spaw/3
omar 3440 2137 0 13:28 ? 00:00:00 /usr/libexec/gvfsd-wdcd --spawner :1.21 /org/gtk/gvfs/exec_spaw/4
omar 3445 3440 0 13:28 ? 00:00:00 python3 /usr/bin/wdcd --no-host --discovery --listen /run/user/1000/gvfsd/wdcd
root 3500 2 0 13:32 ? 00:00:01 [worker/0:2-events]
root 3514 2 0 13:30 ? 00:00:01 [worker/0:0-events.power_efficient]
root 3531 1 0 13:30 ? 00:00:00 /usr/libexec/fuupd/fuupd
root 3588 2 0 13:30 ? 00:00:00 [worker/0:0-events.power_efficient]
root 3735 2 0 13:42 ? 00:00:00 [worker/0:0:2-events.power_efficient]
omar 3881 1930 0 13:42 ? 00:00:00 /usr/bin/snap userd
root 4763 2 0 13:47 ? 00:00:00 [worker/0:0-events]
root 4777 2 0 13:52 ? 00:00:00 [worker/0:0:2-events.unbound]
root 4804 2 0 13:57 ? 00:00:00 [worker/0:0:1-error-feedback]
omar 4822 3382 0 13:58 pts/0 00:00:00 ./ProcessInfo
omar 4823 4822 0 13:58 pts/0 00:00:00 sh -c -- ps -ef
omar 4824 4823 0 13:58 pts/0 00:00:00 ps -ef
omar@omar-VirtualBox:~/Escritorio
```

Process Image

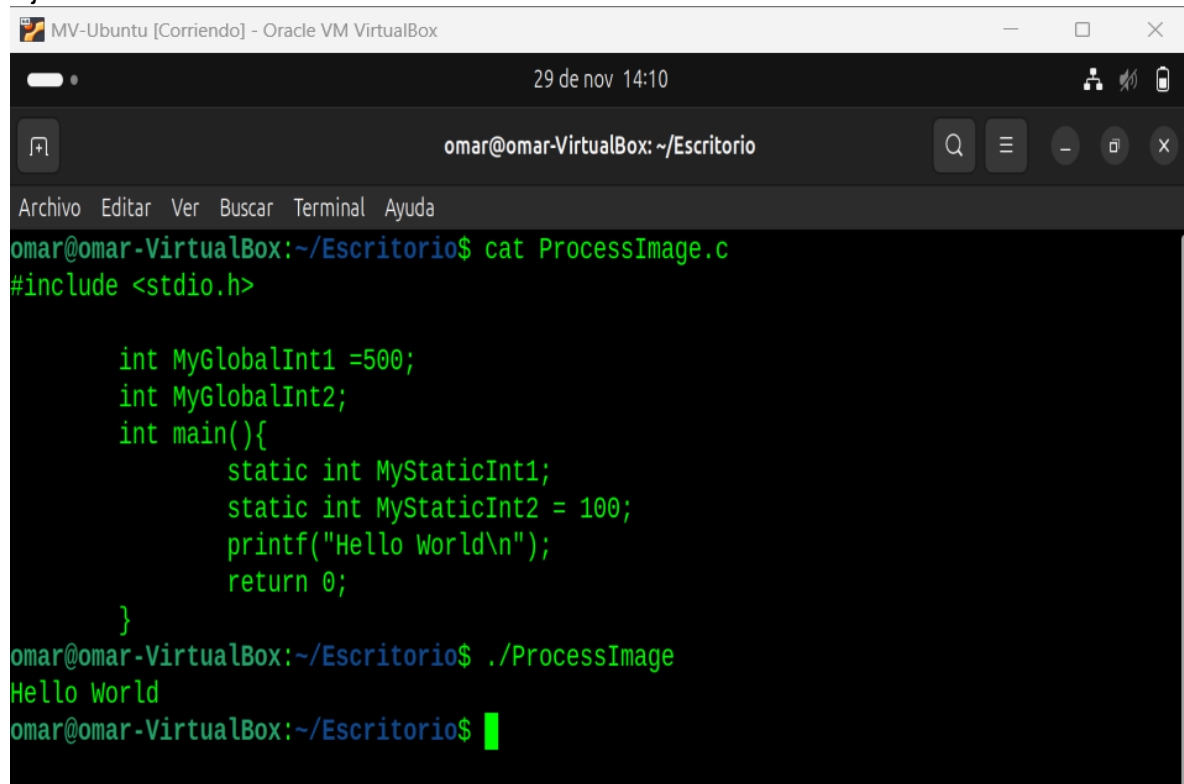


The image shows a terminal window titled "omar@omar-VirtualBox: ~/Escritorio". The window has a menu bar with "Archivo", "Editar", "Ver", "Buscar", "Terminal", and "Ayuda". The terminal displays the command "cat ProcessImage.c" and its output, which is the source code of a C program. The code includes a header file, declares two global integers, and defines a main function with two static integers and a printf statement.

```
omar@omar-VirtualBox:~/Escritorio$ cat ProcessImage.c
#include <stdio.h>

int MyGlobalInt1 =500;
int MyGlobalInt2;
int main(){
    static int MyStaticInt1;
    static int MyStaticInt2 = 100;
    printf("Hello World\n");
    return 0;
}
omar@omar-VirtualBox:~/Escritorio$
```

Ejecución



The screenshot shows a terminal window titled "MV-Ubuntu [Corriendo] - Oracle VM VirtualBox". The window has a dark theme and a menu bar with "Archivo", "Editar", "Ver", "Buscar", "Terminal", and "Ayuda". The terminal content shows the user "omar@omar-VirtualBox" in the directory "~/Escritorio". The user runs the command `cat ProcessImage.c`, which displays the contents of the file `ProcessImage.c`. The code defines two global integers, `MyGlobalInt1` and `MyGlobalInt2`, and a `main` function that prints "Hello World" and returns 0. After running `./ProcessImage`, the terminal outputs "Hello World".

```
omar@omar-VirtualBox: ~/Escritorio
$ cat ProcessImage.c
#include <stdio.h>

int MyGlobalInt1 =500;
int MyGlobalInt2;
int main(){
    static int MyStaticInt1;
    static int MyStaticInt2 = 100;
    printf("Hello World\n");
    return 0;
}
omar@omar-VirtualBox:~/Escritorio$ ./ProcessImage
Hello World
omar@omar-VirtualBox:~/Escritorio$
```