

CS334 lab1 report

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ubuntu中terminal终端光标左侧\$前面的文字是什么含义，如何更改terminal当前执行目录路径

如何通过terminal将文件重命名

在当前文件夹查找所有.c文件可以使用哪个命令

"chmod 537 test.txt"命令是什么作用

terminal中运行一个死循环c程序，截图它的pid号及R+状态，通过本次文档介绍的某条指令将其进入T(暂停)状态（截图），将其恢复运行（截图），再停止该进程（截图）

截图运行成功的qemu

通过什么方式可以退出qemu

截图安装成功的riscv-gcc编译器的版本号

实验课课堂报告需要以什么文件格式提交？如未按照该格式提交会有什么后果？

本课程是否允许抄袭或作弊行为？如有该行为被抄袭者与抄袭者是否均会受到处罚？会受到什么样的处罚？

ubuntu中terminal终端光标左侧\$前面的文字是什么含义，如何更改terminal当前执行目录路径

- 含义：用户名以及当前主机名
- 使用 cd 命令来更改路径

如何通过terminal将文件重命名

- 可以通过在同一个目录下使用 mv 命令移动文件

在当前文件夹查找所有.c文件可以使用哪个命令

- `find *.c`

"chmod 537 test.txt"命令是什么作用

- 修改 test.txt 文件的权限，修改为 User的权限是 可读可执行不可写，Group 的权限是 可写可执行不可读，Other 的权限是 可读可写可执行

terminal中运行一个死循环c程序，截图它的pid号及R+状态，通过本次文档介绍的某条指令将其进入T(暂停)状态（截图），将其恢复运行（截图），再停止该进程（截图）

```
lmq@lmq-virtual-machine:~/virtual$ ps -l
F S   UID      PID      PPID    C  PRI   NI   ADDR  SZ  WCHAN  TTY          TIME CMD
0 S   1000     31106    2230    0   80    0    -   3489  do_wai pts/2        00:00:00 bash
4 R   1000     31112    31106    0   80    0    -   3622  -      pts/2        00:00:00 ps
lmq@lmq-virtual-machine:~/virtual$ ps -l -a
F S   UID      PID      PPID    C  PRI   NI   ADDR  SZ  WCHAN  TTY          TIME CMD
4 S   1000     1597     1592    7   80    0    -   79547 ep_pol tty2        00:02:07 Xorg
0 S   1000     1646     1592    0   80    0    -   48436 poll_s tty2        00:00:00 gnome-sess
0 R   1000     31102    29951   99   80    0    -    591  -      pts/1        00:00:19 a.out
4 R   1000     31113    31106    0   80    0    -   3622  -      pts/2        00:00:00 ps
lmq@lmq-virtual-machine:~/virtual$
```

```
lmq@lmq-virtual-machine:~/virtual$ gcc prac.c
lmq@lmq-virtual-machine:~/virtual$ ./a.out
^Z
[1]+  Stopped                  ./a.out
```

```
lmq@lmq-virtual-machine:~/virtual$ ps -l -a
F S   UID      PID      PPID    C  PRI   NI   ADDR  SZ  WCHAN  TTY          TIME CMD
4 S   1000     1597     1592    7   80    0    -   79563 ep_pol tty2        00:02:07 Xorg
0 S   1000     1646     1592    0   80    0    -   48436 poll_s tty2        00:00:00 gnome-sess
0 T   1000     31102    29951   81   80    0    -    591  do_sig pts/1        00:01:26 a.out
4 R   1000     31116    31106    0   80    0    -   3622  -      pts/2        00:00:00 ps
lmq@lmq-virtual-machine:~/virtual$
```

```
^Z
[1]+  Stopped                  ./a.out
lmq@lmq-virtual-machine:~/virtual$ fg 1
./a.out
```

```
[1]+  Stopped                  ./a.out
lmq@lmq-virtual-machine:~/virtual$ fg 1
./a.out
^C
lmq@lmq-virtual-machine:~/virtual$
```

截图运行成功的qemu

```
bash: ~/.bashrc: No such file or directory
lmq@lmq-virtual-machine:~/Desktop/qemu-5.0.0$ qemu-system-riscv64 --machine virt --nographic --bios default

OpenSBI v0.6

Platform Name       : QEMU Virt Machine
Platform HART Features : RV64ACDFIMSU
Platform Max HARTs   : 8
Current Hart        : 0
Firmware Base       : 0x80000000
Firmware Size       : 120 KB
Runtime SBI Version  : 0.2

MIDELEG : 0x0000000000000222
MEDELEG : 0x000000000000b109
PMP0    : 0x0000000000000000-0x0000000000001ffff (A)
PMP1    : 0x0000000000000000-0xffffffffffffffff (A,R,W,X)
```

通过什么方式可以退出qemu

ctrl A + X

截图安装成功的riscv-gcc编译器的版本号

```
lin@lin-virtual-machine:~/Desktop/qemu-5.0.0$ riscv64-unknown-elf-gcc -v
Using built-in specs.
COLLECT_GCC=riscv64-unknown-elf-gcc
COLLECT_LTO_WRAPPER=/usr/lib/gcc/riscv64-unknown-elf/9.3.0/lto-wrapper
Target: riscv64-unknown-elf
Configured with: ../configure --build=x86_64-linux-gnu --prefix=/usr --includedir=/usr/include --mandir=/usr/share/man --infodir=/usr/share/info --sysconfdir=/etc --localstatedir=/var --disable-silent-rules --libdir=/usr/lib/x86_64-linux-gnu --libexecdir=/usr/lib/x86_64-linux-gnu --disable-maintainer-mode --disable-dependency-tracking --target=riscv64-unknown-elf --prefix=/usr --infodir=/usr/share/doc/gcc-riscv64-unknown-elf/info --mandir=/usr/share/man --htmldir=/usr/share/doc/gcc-riscv64-unknown-elf/html --pdfdir=/usr/share/doc/gcc-riscv64-unknown-elf/pdf --bindir=/usr/bin --libexecdir=/usr/lib --libdir=/usr/lib --with-pkgversion= --disable-shared --disable-threads --enable-languages=c,c++ --enable-tls --with-newlib --with-native-system-header-dir=/include --disable-libmudflap --disable-lbss --disable-lbquadmath --disable-lbgomp --disable-nls --with-system-zlib --enable-checking=yes --enable-multilib --with-abi=lp64d --disable-lbstdc++-pch --disable-lbstdc++ --disable-fixinc --with-arch=rv64imafd --with-gnu-as --with-gnu-ld --with-as=/usr/lib/riscv64-unknown-elf/bin/as --with-ld=/usr/lib/riscv64-unknown-elf/bin/ld AR_FOR_TARGET=/usr/lib/riscv64-unknown-elf/bin/ar AS_FOR_TARGET=/usr/lib/riscv64-unknown-elf/bin/as NM_FOR_TARGET=/usr/lib/riscv64-unknown-elf/bin/nm LD_FOR_TARGET=/usr/lib/riscv64-unknown-elf/bin/ld OBJDUMP_FOR_TARGET=/usr/lib/riscv64-unknown-elf/bin/objdump RANLIB_FOR_TARGET=/usr/lib/riscv64-unknown-elf/bin/ranlib READELF_FOR_TARGET=/usr/lib/riscv64-unknown-elf/bin/readelf STRIP_FOR_TARGET=/usr/lib/riscv64-unknown-elf/bin/strip CFLAGS='-g -O2 -fdebug-prefix-map=/build/gcc-riscv64-unknown-elf-3se3sn/gcc-riscv64-unknown-elf-9.3.0- /fstack-protector-strong' CPPFLAGS='-Wdate-time -D_FORTIFY_SOURCE=2' CXXFLAGS='-g -O2 -fdebug-prefix-map=/build/gcc-riscv64-unknown-elf-3se3sn/gcc-riscv64-unknown-elf-9.3.0- /fstack-protector-strong' FFLAGS='-g -O2 -fdebug-prefix-map=/build/gcc-riscv64-unknown-elf-3se3sn/gcc-riscv64-unknown-elf-9.3.0- /fstack-protector-strong' GCJFLAGS='-g -O2 -fdebug-prefix-map=/build/gcc-riscv64-unknown-elf-3se3sn/gcc-riscv64-unknown-elf-9.3.0- /fstack-protector-strong' LDFLAGS='-Wl,-Bsymbolic-functions -Wl,-z,relro -Wl,-z,now' OBJCFLAGS='-g -O2 -fdebug-prefix-map=/build/gcc-riscv64-unknown-elf-3se3sn/gcc-riscv64-unknown-elf-9.3.0- /fstack-protector-strong' OBJCXXFLAGS='-g -O2 -fdebug-prefix-map=/build/gcc-riscv64-unknown-elf-3se3sn/gcc-riscv64-unknown-elf-9.3.0- /fstack-protector-strong' CFLAGS_FOR_TARGET='-Os -mcmodel=medany' CXXFLAGS_FOR_TARGET='-Os -mcmodel=medany'
gcc version 9.3.0 ()
lin@lin-virtual-machine:~/Desktop/qemu-5.0.0$
```

实验课课堂报告需要以什么文件格式提交？如未按照该格式提交会有什么后果？

- PDF, otherwise, 沈姐姐不会看直接零分

本课程是否允许抄袭或作弊行为？如有该行为被抄袭者与抄袭者是否均会受到处罚？会受到什么样的处罚？

- 不允许，会登入系统，各种不良影响