q1

ls -a /tmp

cp ~/csse2310/trunk/a4/\*.c ~/data

gcc -c webserver.c -o webserver

ln -s webserver /local/courses/csse2310/lib/connections.c webserver /local/courses/csse2310/lib/server.c

gcc -pthread /local/courses/csse2310/include -o webserver connections.c server.c /local/courses/csse2310/lib/csse2310a4

svn commit log ‘Fixed bug 1234’

svn commit -m ‘Fixed bug 1234’

grep ` nameserver` /etc/ resolv.conf

grep -v “tcp” /etc/services

grep -cv “tcp” /etc/services

grep “#define” ~/a3/hq.c > defs

grep “#define” ~/a3/hq.c >> defs

grep -c “\_” defs >> stderr

grep -c “\_” defs > &2

grep -c “autocmd” /etc/vimrc >> /tmp/vim/auto.count

grep -c “autocmd” /etc/vimrc > /tmp/vim/auto.count

ln -s /local/courses/csse2310/bin/testal.sh altest

ln -s /local/courses/csse2310/bin/testal.sh ~/altest

q2

float foo[5] = {0, 1, 3.14, 2.718, 1.618};

double foo[5] = {0, 1, 3.14, 2.718, 1.618};

(hard)void\* foo = &main;

int (\*foo)(int, char\*\*)

char foo[8] = “csse2310”;

char foo[9];

uint\_8 foo;

uint8\_t foo;

float\* foo;

struct Job foo;

q3

unknown SEGFAULT

675360

unknown

3141592

q4

128 TiB = 128 \* 2^40 B (1 TiB = 2^40 B) = 2^7 \* 2^40 B = 2^47 B => ans is 47 bits

pages per entry = 16 KiB / 8B = 2048

3rd level size = 2048\*16KiB = 32 MiB

Num 3rd level page = 96 GiB / 32 MiB = 3072 pages

(1+2+3072)\*16 = 49200 KiB

256Gib / 32MiB = 8192 pages

(1+4+8192)\*16 = 131152 KiB

(1 + 2048 + 2048^2) \* 16KiB = 64GiB

(1+2+3072 + 1 + 1G/32M) = 3108 pages

mem=3108\*16 = 49728 KiB