XV6 project

PROBLEM STATEMENT: Implement Host to Guest Channel Listener in XV6

EXPLANATION: We have to create a communication channel between

Host system and xv6.i.e any command executed on linux terminal is also executed on qemu.

IMPLEMENTATION

ps –a command run on linux terminal lists all processes of all users on the system.

ttyecho.c file was referred to make our own source code file channel.c which includes the functions needed to set up communication channel.

channel.c file was compiled and the a.out file was copied into xv6 directory.

Now open 2 terminals.

->In the first terminal ,

1)cd to xv6

2)Find the current running terminal using tty command, where we get something as /dev/pts/x where x is a number.

3)Then open qemu using make qemu command.

4)once the qemu emulator has popped up, go to the second terminal, cd to xv6 and type the following command

sudo ./a.out /dev/pts/x command

where command is any command we want to execute. eg ls ,echo etc.

5) We now observe that command executed on host terminal is also executed on qemu, thus setting up communication channel listener.