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Networks Lab 7

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1. IO Multiplexing. Check if a key is pressed or not within a time duration.

Code:

#include<stdio.h>

#include<sys/time.h>

#define STDIN 0 // file descriptor for standard input

int main(void) {

struct timeval tv;

fd\_set readfds;

tv.tv\_sec = 2;

tv.tv\_usec = 500000;

FD\_ZERO(&readfds);

FD\_SET(STDIN, &readfds);

// don’t care about writefds and exceptfds:

select(STDIN+1, &readfds, NULL, NULL, &tv);

if (FD\_ISSET(STDIN, &readfds))

printf("A key was pressed!\n");

else

printf("Timed out.\n");

return 0;

}

Output:

