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#include <iostream>

#include <openssl/rc4.h>

#include <unistd.h>

#include <stdio.h>

#include <stdlib.h>

#include "rc4test.h"

using namespace std;

#define H\_KEY "yufytugjhbgytcrtxc"

int encryp(int fd){

RC4\_KEY key;

off\_t filesize; //will hold the size of the file

filesize = lseek(fd,0,SEEK\_END); //records the size of file in bytes

if(filesize < 0){ //checks for error

perror("Cannot provide offset");

exit(0);

}

lseek(fd,0,SEEK\_SET);// set byte counter back to first byte

unsigned char \*inbuff = (unsigned char\*)malloc(filesize); //input buffer

unsigned char \*outbuff = (unsigned char\*)malloc(filesize); //output buffer

if(read(fd,inbuff,filesize) == -1){ //checks if file is readable

perror("cannot read file");

exit(0);

}

//encryption / decryption

RC4\_set\_key(&key,sizeof(H\_KEY),(const unsigned char \*)H\_KEY);

RC4(&key,filesize,inbuff,outbuff);

//write encryption to new file

lseek(fd,0,SEEK\_SET);// set byte counter back to first byte

if(write(fd,outbuff,filesize) == -1){

perror("cannot write to file");

exit(0);

}

free(inbuff);

free(outbuff); //free memory that was allocated for outbuff

return 0;

};