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1. 소스코드

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

#include <fcntl.h>

#include <sys/time.h>

#define SEC\_TO\_MICRO 1000000

#define S\_MODE 0644

#define BUFFER\_SIZE 1024

int main(int argc, char \*argv[]){

struct timeval begin\_t, end\_t;

char buf[BUFFER\_SIZE];

int length;

int fd1, fd2;

gettimeofday(&begin\_t, NULL);

if(argc != 3){

fprintf(stderr, "Usage : %s filein fileout\n", argv[0]);

exit(1);

}

if((fd1 = open(argv[1], O\_RDONLY)) < 0){

fprintf(stderr, "open error for %s\n",argv[1]);

exit(1);

}

if((fd2 = open(argv[2], O\_WRONLY | O\_CREAT | O\_TRUNC, S\_MODE)) < 0){

fprintf(stderr, "open error for %s\n",argv[2]);

exit(1);

}

while((length = read(fd1, buf, BUFFER\_SIZE)) > 0){ // size만큼 fd1에서 읽어서 buf에 저장

write(fd2, buf, length); // buf에 length만큼 fd2에 write

}

gettimeofday(&end\_t, NULL);

end\_t.tv\_sec -= begin\_t.tv\_sec;

if(end\_t.tv\_usec < begin\_t.tv\_usec){

end\_t.tv\_sec--;

end\_t.tv\_usec += SEC\_TO\_MICRO;

}

end\_t.tv\_usec -= begin\_t.tv\_usec;

printf("Runtime: %ld:%ld\n",end\_t.tv\_sec, end\_t.tv\_usec);

exit(0);

}

2. 실행결과