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1. 소스코드

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

#include <sys/time.h>

#define SEC\_TO\_MICRO 1000000

#define TABLE\_SIZE (sizeof(table)/sizeof(\*table))

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

struct timeval begin\_t, end\_t;

struct {

char \*text;

int mode;

} table[] = {

{"exists", 0},

{"execute", 1},

{"write", 2},

{"read", 4}

};

int i;

gettimeofday(&begin\_t, NULL);

if(argc < 2){

fprintf(stderr, "Usage: %s <file>\n",argv[0]);

exit(1);

}

for(int i=0; i<TABLE\_SIZE; i++){

if(access(argv[1], table[i].mode) != -1){ //argv의 mode 확인

printf("%s -ok\n",table[i].text);

}

else{

printf("%s\n",table[i].text);

}

}

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;

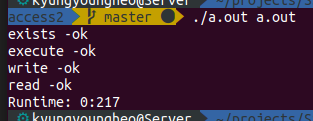
}

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