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1. 소스코드

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

#include <sys/stat.h>

#include <sys/time.h>

#define SEC\_TO\_MICRO 1000000

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

struct timeval begin\_t, end\_t;

struct stat file\_info;

char \*str;

int i;

gettimeofday(&begin\_t, NULL);

for(i=1; i<argc; i++){

printf("name = %s, type = ", argv[i]);

if(lstat(argv[i], &file\_info) < 0){ // argv들의 stat 정보를 저장

fprintf(stderr, "lstat error\n");

continue;

}

if(S\_ISREG(file\_info.st\_mode))

str = "regular";

else if(S\_ISDIR(file\_info.st\_mode))

str = "directory";

else if(S\_ISCHR(file\_info.st\_mode))

str = "character special";

else if(S\_ISBLK(file\_info.st\_mode))

str = "block special";

else if(S\_ISFIFO(file\_info.st\_mode))

str = "FIFO";

else if(S\_ISLINK(file\_info.st\_mode))

str = "symbolic link";

else if(S\_ISSOCK(file\_info.st\_mode))

str = "socket";

else

str = "unknown mode";

printf("%s\n",str);

}

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

