컴퓨터학부 20142468 허경영

1. 소스코드

<ssu\_write\_3.c>

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

#include <fcntl.h>

#include <sys/time.h>

#include "ssu\_employee.h"

#define SEC\_TO\_MICRO 1000000

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

struct timeval begin\_t, end\_t;

struct ssu\_employee record;

int fd;

gettimeofday(&begin\_t, NULL);

if(argc < 2){

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

exit(1);

}

if((fd = open(argv[1], O\_WRONLY | O\_CREAT | O\_EXCL, 0640)) < 0){

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

exit(1);

}

while(1){

printf("Enter employee name <SPACE> salary: ");

scanf("%s",record.name);

if(record.name[0] == '.') // .이 입력되면 break

break;

scanf("%d",&record.salary);

record.pid = getpid(); // pid를 저장

write(fd, (char \*)&record, sizeof(record)); // record를 fd에 저장

}

close(fd);

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);

}

<ssu\_employee.h>

#define NAME\_SIZE 64

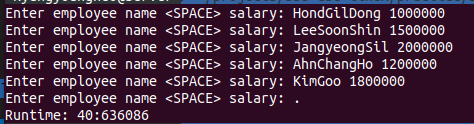
struct ssu\_employee {

char name[NAME\_SIZE];

int pid;

int salary;

};

2. 실행결과