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1. 소스 코드

#include <stdio.h>

#include <stdlib.h>

#include <unistd.h>

#include <sys/time.h>

#include <errno.h>

#include <signal.h>

#include <termios.h>

#include "ssu\_runtime.h"

#define STDIN\_NUMBER 0

**static** **void** ssu\_sig\_hup(**int** signum);

**static** **void** ssu\_print\_ids(**char** \*name);

**int** main(**void**)

{

pid\_t pid;

**char** character;

gettimeofday(&begin\_t, **NULL**);

ssu\_print\_ids("parent");

**if** ((pid = fork()) < 0) {

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

exit(1);

}

**else** **if** (pid > 0) {

sleep(3);

gettimeofday(&end\_t, **NULL**);

printf("\n%d's runtime", getpid());

ssu\_runtime(&begin\_t, &end\_t);

exit(0);

}

**else** {

ssu\_print\_ids("child");

signal(SIGHUP, ssu\_sig\_hup);

kill(getpid(), SIGTSTP);

ssu\_print\_ids("child");

**if** (read(STDIN\_NUMBER, &character, 1) != 1) {

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

exit(1);

}

gettimeofday(&end\_t, **NULL**);

printf("\n%d's runtime", getpid());

ssu\_runtime(&begin\_t, &end\_t);

exit(0);

}

}

**static** **void** ssu\_sig\_hup(**int** signum)

{

printf("ssu\_SIG\_HUP received, pid = %d\n", getpid());

}

**static** **void** ssu\_print\_ids(**char** \*name)

{

printf("[%s] : pid = %d, ppid = %d, pgrp = %d, tpgrp = %d\n",

name, getpid(), getppid(), getpgrp(), tcgetpgrp(STDIN\_NUMBER));

fflush(stdout);

}

1. 실행 결과

