Experiment No: 08

Experiment Name: [Thread](file:///G:\study\3-2\computer%20network\lab\NDL\10\Configure%20A%20Router%20With%20Packet%20Tracer%20_%20All%20About%20Networking._files\Configure%20A%20Router%20With%20Packet%20Tracer%20_%20All%20About%20Networking..html) programming in linux.

Objectives: According to this report we will focus on how a thread is created and identified. We will also present a working C program example that will explain how to do basic threaded programming.

Source Code:

#include<stdio.h>

#include<string.h>

#include<pthread.h>

#include<stdlib.h>

#include<unistd.h>

pthread\_t tid[2];

void\* doSomeThing(void \*arg)

{

unsigned long i = 0;

pthread\_t id = pthread\_self();

if(pthread\_equal(id,tid[0]))

{

printf("\n First thread processing\n");

}

else

{

printf("\n Second thread processing\n");

}

for(i=0; i<(0xFFFFFFFF);i++);

return NULL;

}

int main(void)

{

int i = 0;

int err;

while(i < 2)

{

err = pthread\_create(&(tid[i]), NULL, &doSomeThing, NULL);

if (err != 0)

printf("\ncan't create thread :[%s]", strerror(err));

else

printf("\n Thread created successfully\n");

i++;

}

sleep(5);

return 0;

}

Output :



Discussion: In this lab experiment, we have learnt about thread programming in Linux using C language. We also learnt about creating a thread and working behavior of thread in c language .

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