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NIM : L200170065

Kelas : C

Matkul : Praktikum Sistem Operasi

# **MODUL 8**

#### Fork.c

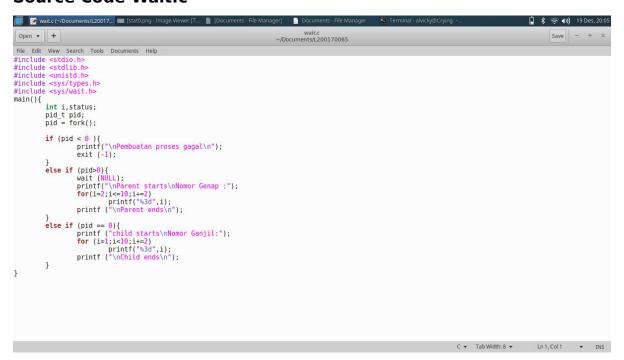
```
Terminal - alvicky@Crying: ~/Documents/L200170065
                                                                                               - +
                                                                                                       ×
 File Edit View Terminal Tabs Help
alvicky@Crying:~/Documents/L200170065$ ls
a.out dirlist.c exec.c fork.c nano.save stat.c wait.c wait.c.save
alvicky@Crying:~/Documents/L200170065$ gedit fork.c
** (gedit:2134): WARNING **: Couldn't connect to accessibility bus: Failed to co
nnect to socket /tmp/dbus-x90pmP0qlw: Connection refused
alvicky@Crying:~/Documents/L200170065$ gcc fork.c
fork.c:5:1: warning: return type defaults to 'int' [-Wimplicit-int]
main() {
alvicky@Crying:~/Documents/L200170065$ ./a.out
Child Procces :
Procces id is 2165
Value of x is 6
Procces id of parent is 2164
Parent Procces :
Procces id is 2164
Value of x is 6
Procces id of parent is 1936
alvicky@Crying:~/Documents/L200170065$
```

### Source Code Fork.c

### Wait.c

```
Terminal - alvicky@Crying: ~/Documents/L200170065
                                                                                  4
                                                                                      ×
 File Edit View Terminal Tabs Help
Parent Procces :
Procces id is 2164
Value of x is 6
Procces id of parent is 1936
alvicky@Crying:~/Documents/L200170065$ gedit wait.c
** (gedit:2176): WARNING **: Couldn't connect to accessibility bus: Failed to co
nnect to socket /tmp/dbus-x90pmP0qlw: Connection refused
alvicky@Crying:~/Documents/L200170065$ gcc wait.c
wait.c:6:1: warning: return type defaults to 'int' [-Wimplicit-int]
 main(){
alvicky@Crying:~/Documents/L200170065$ ./a.out wait.c
child starts
Nomor Ganjil: 1 3 5 7 9
Child ends
Parent starts
Nomor Genap : 2 4 6 8 10
Parent ends
alvicky@Crying:~/Documents/L200170065$
```

# Source Code Wait.c



#### Exec.c

```
Terminal - alvicky@Crying: ~/Documents/L200170065
                                                                               +
                                                                                  ×
 File Edit View Terminal Tabs Help
Insufficient Argument to load program
usagr: ./a.out <path> <cmd>
Child process
A NULL argv[0] was passed through an exec system call.
Child Terminated
alvicky@Crying:~/Documents/L200170065$ ./a.out exec.c
Insufficient Argument to load program
usagr: ./a.out <path> <cmd>
Child process
(null) Program not loaded using excec System call
Child Terminated
alvicky@Crying:~/Documents/L200170065$ ./a.out exec.c
Insufficient Argument to load program
usagr: ./a.out <path> <cmd>
Child process
(null) Program not loaded using excec System call
Child Terminated
alvicky@Crying:~/Documents/L200170065$ ./a.out /bin/ls ls
Child process
a.out dirlist.c exec.c fork.c nano.save stat.c wait.c wait.c.save
Child Terminated
alvicky@Crying:~/Documents/L200170065$
```

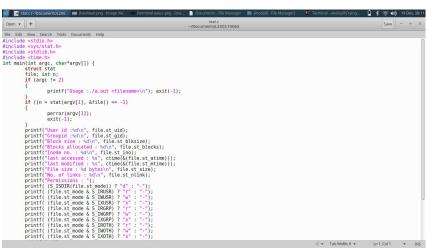
# **Source Code Exec.c**

```
Open ▼ +
                                                                                         exec.c
~/Documents/L200170065
File Edit View Search Tools Documents Help
#include <sys/types.h>
main(int argc, char*argv[]) {
         pid_t pid;
int i;
          if(argc != 3)
                    printf("\nInsufficient Argument to load program");
printf("\nusagr: ./a.out <path> <cmd>\n");
          case -1:
                    printf("Fork Failed");
exit(-1);
          case 0:
                    printf("Child process\n");
i = execl(argv[1], argv[2], 0);
                     if(i < 0)
                               printf("%s \ Program \ not \ loaded \ using \ excec \ System \ call\n", \ argv[2]); \ exit(-1);
          default: }
                    wait(NULL);
printf("Child Terminated\n");
exit(0);
```

#### Stat.c

```
Terminal - alvicky@Crying: ~/Documents/L200170065
                                                                                                ×
 File Edit View Terminal Tabs Help
has type '__ino_t {aka long unsigned int}' [-Wformat=]
 printf("Inode no. : %d\n", file.st_ino);
stat.c:24:9: warning: format '%d' expects argument of type 'int', but argument 2
  has type '__off_t {aka long int}' [-Wformat=]
  printf("File size : %d bytes\n", file.st_size);
stat.c:25:9: warning: format '%d' expects argument of type 'int', but argument 2
has type '__nlink_t {aka long unsigned int}' [-Wformat=]
printf("No. of links : %d\n", file.st_nlink);
alvicky@Crying:~/Documents/L200170065$ ./a.out stat.c
User id :1000
Groupid :1000
Block size : 4096
Blocks allocated : 8
Inode no. : 534149
last accessed : Wed Dec 19 20:11:12 2018
last modified : Fri Nov 30 10:35:36 2018
File size : 1372 bytes
No. of links : 1
Permissions : -rw-r--r--
File type : regular
alvicky@Crying:~/Documents/L200170065$
```

## **Source Code Stat.c**



## Dirlist.c

```
Terminal - alvicky@Crying: ~/Documents/L200170065
                                                                               - + \times
     Edit View Terminal Tabs Help
 File
alvicky@Crying:~/Documents/L200170065$ gedit dirlist.c
** (gedit:2368): WARNING **: Couldn't connect to accessibility bus: Failed to co
nnect to socket /tmp/dbus-x90pmP0qlw: Connection refused
alvicky@Crying:~/Documents/L200170065$
alvicky@Crying:~/Documents/L200170065$
alvicky@Crying:~/Documents/L200170065$ gcc dirlist.c
dirlist.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]
main(int argc, char *argv[]){
alvicky@Crying:~/Documents/L200170065$ ./a.out .
wait.c
stat.c
exec.c
nano.save
wait.c.save
a.out
dirlist.c
fork.c
alvicky@Crying:~/Documents/L200170065$
```

## **Source Code Dirlist.c**