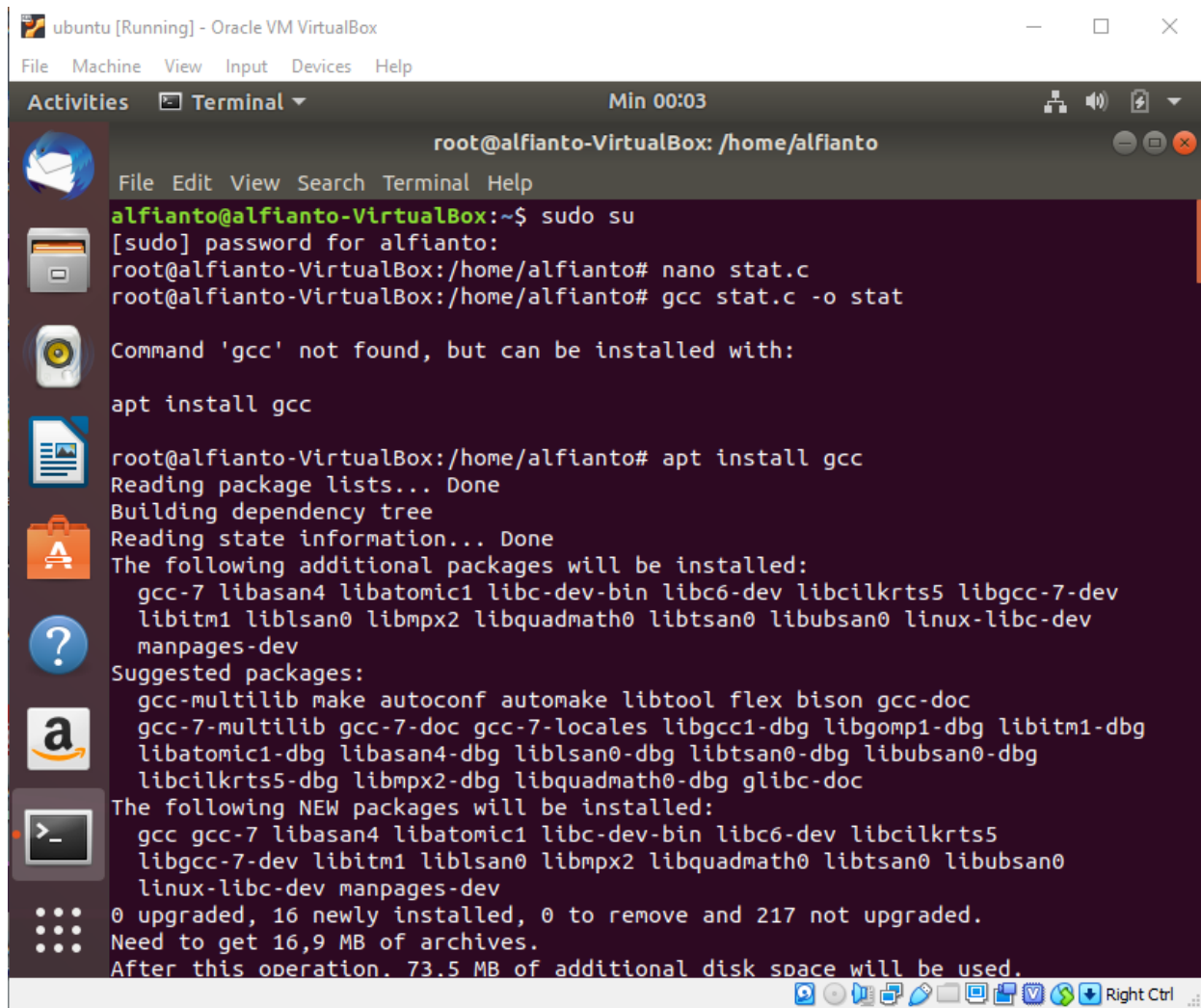


Nama : Alfianto Andy Pamungkas

NIM : L200180194

## MODUL 8

Stat.c



```
ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Min 00:03
root@alfianto-VirtualBox: /home/alfianto
File Edit View Search Terminal Help
alfianto@alfianto-VirtualBox:~$ sudo su
[sudo] password for alfianto:
root@alfianto-VirtualBox:/home/alfianto# nano stat.c
root@alfianto-VirtualBox:/home/alfianto# gcc stat.c -o stat
Command 'gcc' not found, but can be installed with:
apt install gcc
root@alfianto-VirtualBox:/home/alfianto# apt install gcc
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  gcc-7 libasan4 libatomic1 libc-dev-bin libc6-dev libcilkrts5 libgcc-7-dev
  libitm1 liblsan0 libmpx2 libquadmath0 libtsan0 libubsan0 linux-libc-dev
  manpages-dev
Suggested packages:
  gcc-multilib make autoconf automake libtool flex bison gcc-doc
  gcc-7-multilib gcc-7-doc gcc-7-locales libgcc1-dbg libgomp1-dbg libitm1-dbg
  libatomic1-dbg libasan4-dbg liblsan0-dbg libtsan0-dbg libubsan0-dbg
  libcilkrts5-dbg libmpx2-dbg libquadmath0-dbg glibc-doc
The following NEW packages will be installed:
  gcc gcc-7 libasan4 libatomic1 libc-dev-bin libc6-dev libcilkrts5
  libgcc-7-dev libitm1 liblsan0 libmpx2 libquadmath0 libtsan0 libubsan0
  linux-libc-dev manpages-dev
0 upgraded, 16 newly installed, 0 to remove and 217 not upgraded.
Need to get 16,9 MB of archives.
After this operation, 73.5 MB of additional disk space will be used.
```

ubuntu [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Activities Terminal Min 00:08

root@alfianto-VirtualBox: /home/alfianto

File Edit View Search Terminal Help

GNU nano 2.9.3 stat.c Modified

```
#include <stdio.h>
#include <sys/stat.h>
#include <stdlib.h>
#include <time.h>
int main(int argc, char*argv[]){
    struct stat
    file; int n;
    if (argc !=2 ){
        printf("Usage : ./a.out <filename>\n"); exit(-1);
    }
    if ((n = stat (argv [1], &file)) == 1){
        perror(argv[1]);
        exit(-1);
    }
    printf("User id : %d\n", file.st_uid);
    printf("Group id : %d\n", file.st_gid);
    printf("Block size : %d\n", file.st_blksize);
    printf("Blocks allocated : %d\n", file.st_blocks);
    printf("inode no : %d\n", file.st_ino);
    printf("Last accessed : %s", ctime(&(file.st_atime)));
    printf("Last modified : %s", ctime(&(file.st_mtime)));
    printf("file size : %d bytes\n", file.st_size);
    printf("No. of links : %d\n", file.st_nlink);
```

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify  
^X Exit ^R Read File ^\_ Replace ^U Uncut Text ^T To Spell

Right Ctrl

ubuntu [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Activities Terminal Min 00:09

root@alfianto-VirtualBox: /home/alfianto

File Edit View Search Terminal Help

GNU nano 2.9.3 stat.c Modified

```
printf( (S_ISDIR(file.st_mode)) ? "d" : "-");
printf( (file.st_mode & S_IRUSR) ? "r" : "-");
printf( (file.st_mode & S_IWUSR) ? "w" : "-");
printf( (file.st_mode & S_IXUSR) ? "x" : "-");
printf( (file.st_mode & S_IRGRP) ? "r" : "-");
printf( (file.st_mode & S_IWGRP) ? "w" : "-");
printf( (file.st_mode & S_IXGRP) ? "x" : "-");
printf( (file.st_mode & S_IROTH) ? "r" : "-");
printf( (file.st_mode & S_IWOTH) ? "w" : "-");
printf( (file.st_mode & S_IXOTH) ? "x" : "-");
printf("\n");
if(file.st_mode & S_IFREG)
    printf("file type : regular \n");
if(file.st_mode & S_IFDIR)
    printf("file type : Directory\n");
}
```

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify  
^X Exit ^R Read File ^\_ Replace ^U Uncut Text ^T To Spell

Right Ctrl

```
ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Min 00:05
root@alfianto-VirtualBox: /home/alfianto
File Edit View Search Terminal Help
root@alfianto-VirtualBox:/home/alfianto# gcc stat.c -o stat
stat.c: In function 'main':
stat.c:17:31: warning: format '%d' expects argument of type 'int', but argument
2 has type '__blksize_t {aka long int}' [-Wformat=]
printf("Block size : %d\n", file.st_blksize);
~^
~^
~^
stat.c:18:37: warning: format '%d' expects argument of type 'int', but argument
2 has type '__blkcnt_t {aka long int}' [-Wformat=]
printf("Blocks allocated : %d\n", file.st_blocks);
~^
~^
~^
stat.c:19:29: warning: format '%d' expects argument of type 'int', but argument
2 has type '__ino_t {aka long unsigned int}' [-Wformat=]
printf("inode no : %d\n", file.st_ino);
~^
~^
~^
stat.c:22:30: 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:23:33: 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);
~^
~^
~^
root@alfianto-VirtualBox:/home/alfianto# nano stat.c
root@alfianto-VirtualBox:/home/alfianto# gcc stat.c -o stat
```

```
ubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Activities Terminal Min 00:10
root@alfianto-VirtualBox: /home/alfianto
File Edit View Search Terminal Help
GNU nano 2.9.3 stat.c
#include <stdio.h>
#include <sys/stat.h>
#include <stdlib.h>
#include <time.h>
int main(int argc, char*argv[]){
    struct stat
    file; int n;
    if (argc !=2 ){
        printf("Usage : ./a.out <filename>\n"); exit(-1);
    }
    if ((n = stat (argv [1], &file)) == 1){
        perror(argv[1]);
        exit(-1);
    }
    printf("User id : %d\n", file.st_uid);
    printf("Group id : %d\n", file.st_gid);
    printf("Block size : %ld\n", file.st_blksize);
    printf("Blocks allocated : %ld\n", file.st_blocks);
    printf("inode no : %ld\n", file.st_ino);
    printf("Last accessed : %s", ctime(&(file.st_atime)));
    printf("Last modified : %s", ctime(&(file.st_mtime)));
    printf("file size : %ld bytes\n", file.st_size);
    printf("No. of links : %ld\n", file.st_nlink);
    [ Read 40 lines ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify
^X Exit ^R Read File ^_ Replace ^U Uncut Text ^T To Spell
```

ubuntu [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Activities Terminal Min 00:11

root@alfianto-VirtualBox: /home/alfianto

File Edit View Search Terminal Help

GNU nano 2.9.3 stat.c

```
exit(-1);
}
printf("User id : %d\n", file.st_uid);
printf("Group id : %d\n", file.st_gid);
printf("Block size : %ld\n", file.st_blksize);
printf("Blocks allocated : %ld\n", file.st_blocks);
printf("inode no : %ld\n", file.st_ino);
printf("Last accessed : %s", ctime(&(file.st_atime)));
printf("Last modified : %s", ctime(&(file.st_mtime)));
printf("file size : %ld bytes\n", file.st_size);
printf("No. of links : %ld\n", file.st_nlink);
printf("permission : ");
printf( (S_ISDIR(file.st_mode)) ? "d" : "-");
printf( (file.st_mode & S_IRUSR) ? "r" : "-");
printf( (file.st_mode & S_IWUSR) ? "w" : "-");
printf( (file.st_mode & S_IXUSR) ? "x" : "-");
printf( (file.st_mode & S_IRGRP) ? "r" : "-");
printf( (file.st_mode & S_IWGRP) ? "w" : "-");
printf( (file.st_mode & S_IXGRP) ? "x" : "-");
printf( (file.st_mode & S_IROTH) ? "r" : "-");
printf( (file.st_mode & S_IWOTH) ? "w" : "-");
printf( (file.st_mode & S_IXOTH) ? "x" : "-");
printf("\n");
```

Get Help Write Out Where Is Cut Text Justify  
Exit Read File Replace Uncut Text To Spell

ubuntu [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Activities Terminal Min 00:11

root@alfianto-VirtualBox: /home/alfianto

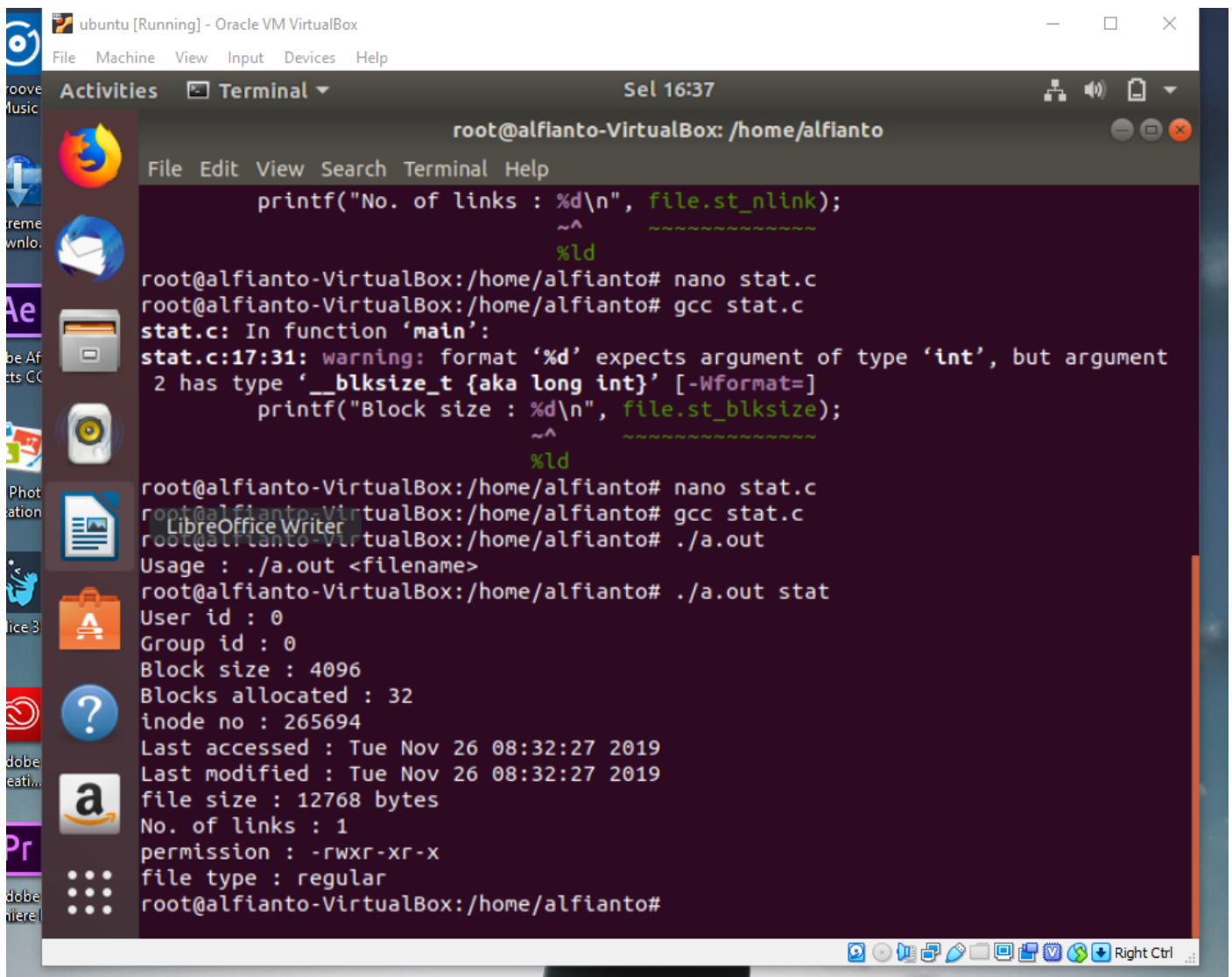
File Edit View Search Terminal Help

GNU nano 2.9.3 stat.c

```
printf( (S_ISDIR(file.st_mode)) ? "d" : "-");
printf( (file.st_mode & S_IRUSR) ? "r" : "-");
printf( (file.st_mode & S_IWUSR) ? "w" : "-");
printf( (file.st_mode & S_IXUSR) ? "x" : "-");
printf( (file.st_mode & S_IRGRP) ? "r" : "-");
printf( (file.st_mode & S_IWGRP) ? "w" : "-");
printf( (file.st_mode & S_IXGRP) ? "x" : "-");
printf( (file.st_mode & S_IROTH) ? "r" : "-");
printf( (file.st_mode & S_IWOTH) ? "w" : "-");
printf( (file.st_mode & S_IXOTH) ? "x" : "-");
printf("\n");
if(file.st_mode & S_IFREG)
    printf("file type : regular \n");
if(file.st_mode & S_IFDIR)
    printf("file type : Directory\n");
}
```

Get Help Write Out Where Is Cut Text Justify  
Exit Read File Replace Uncut Text To Spell





## Dirlist.c

