

PRAKTIKUM SISTEM OPERASI

Modul 9 : File System Call



Disusun oleh :

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PROGRAM STUDI TEKNIK INFORMATIKA

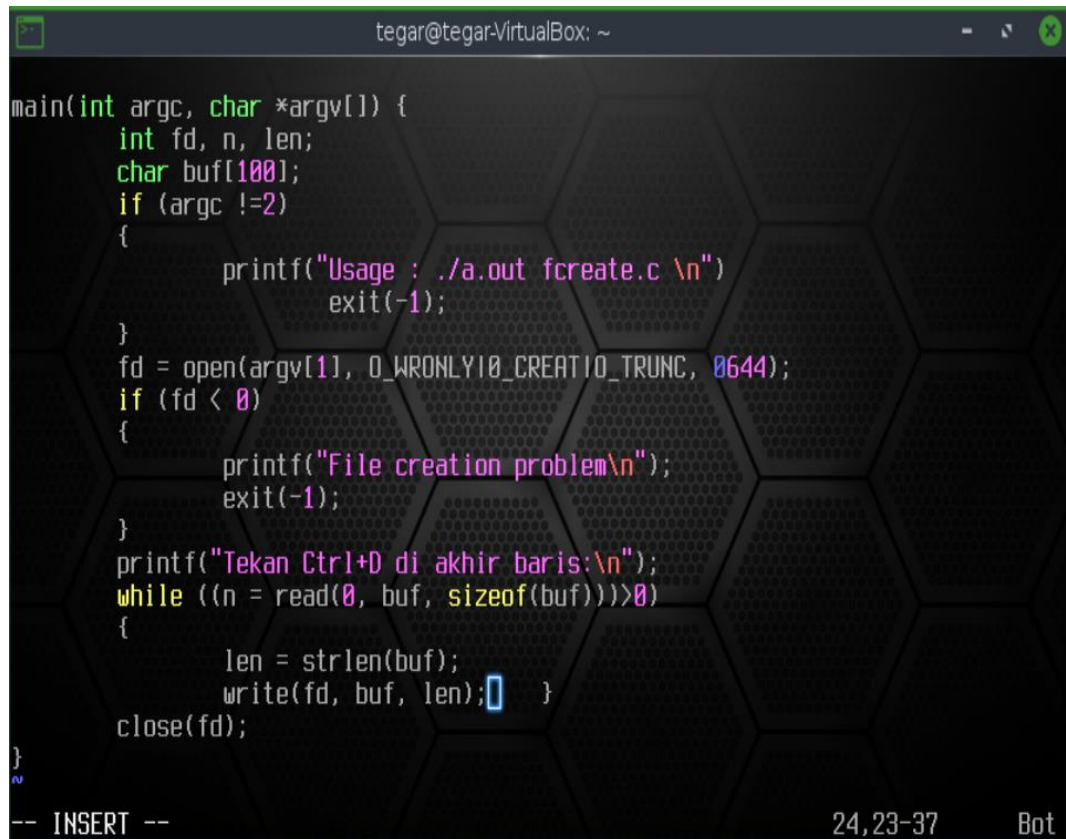
FAKULTAS KOMUNIKASI DAN INFORMATIKA

UNIVERSITAS MUHAMMADIYAH SURAKARTA

TAHUN 2022/2023f

LANGKAH KERJA

1. Membuat sebuah file dan menuliskan data di dalamnya.



```
tegar@tegar-VirtualBox: ~  
  
main(int argc, char *argv[]) {  
    int fd, n, len;  
    char buf[100];  
    if (argc != 2)  
    {  
        printf("Usage : ./a.out fcreate.c \n")  
        exit(-1);  
    }  
    fd = open(argv[1], O_WRONLY|O_CREAT|O_TRUNC, 0644);  
    if (fd < 0)  
    {  
        printf("File creation problem\n");  
        exit(-1);  
    }  
    printf("Tekan Ctrl+D di akhir baris:\n");  
    while ((n = read(0, buf, sizeof(buf))) > 0)  
    {  
        len = strlen(buf);  
        write(fd, buf, len);  
    }  
    close(fd);  
}
```

-- INSERT -- 24,23-37 Bot

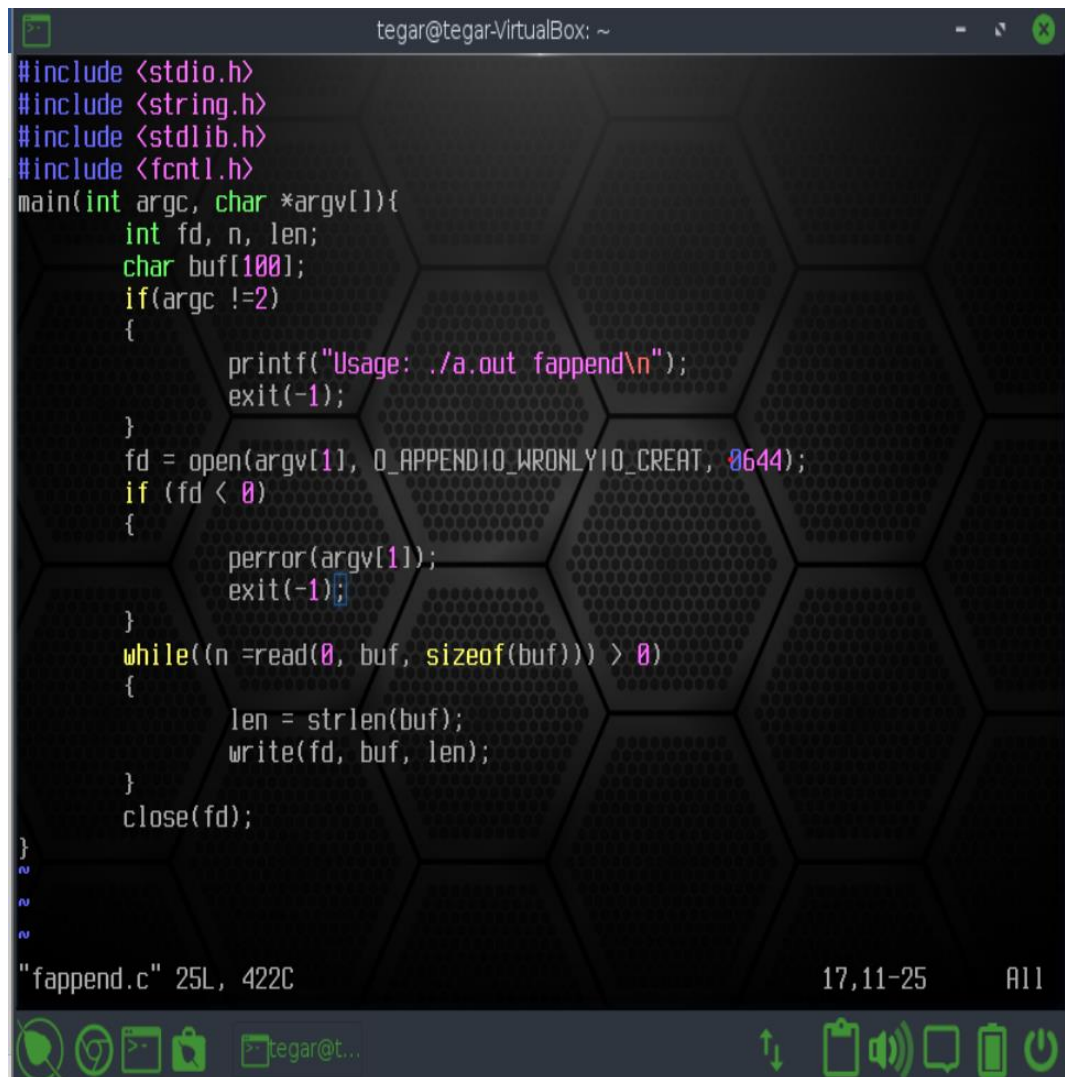
```
tegar@tegar-VirtualBox: ~  
+++ |+#include <stdio.h>  
5 |  
fcreate.c:18:3: warning: incompatible implicit declaration of built-in function  
'printf'  
18 |     printf("File creation problem\n");  
    |     ^~~~~~  
fcreate.c:18:3: note: include '<stdio.h>' or provide a declaration of 'printf'  
fcreate.c:21:2: warning: incompatible implicit declaration of built-in function  
'printf'  
21 |     printf("Tekan Ctrl+D di akhir baris:\n");  
    |     ^~~~~~  
fcreate.c:21:2: note: include '<stdio.h>' or provide a declaration of 'printf'  
fcreate.c:22:14: warning: implicit declaration of function 'read' [-Wimplicit-f  
unction-declaration]  
22 |     while ((n = read(0, buf, sizeof(buf)))>0)  
    |                  ^~~~~  
fcreate.c:25:3: warning: implicit declaration of function 'write' [-Wimplicit-f  
unction-declaration]  
25 |     write(fd, buf, len); }  
    |     ^~~~~~  
fcreate.c:26:2: warning: implicit declaration of function 'close' [-Wimplicit-f  
unction-declaration]  
26 |     close(fd);  
    |     ^~~~~~  
tegar@tegar-VirtualBox:~$ ./fread identitas.txt  
identitas.txt file does not exist  
tegar@tegar-VirtualBox:~$ ./fcreate identitas.txt  
Tekan Ctrl+D di akhir baris:  
Nama = Tegar Wisnu Noviyanto, NIM = 1200210247tegar@tegar-VirtualBox:~$ SS
```

2. Membaca sebuah file dan menampilkan isinya di layar.

```
tegar@tegar-VirtualBox: ~  
#include <stdio.h>  
#include <stdlib.h>  
#include <fcntl.h>  
main(int argc, char *argv[]){  
    int fd,i;  
    char buf[100];  
    if (argc < 2)  
    {  
        printf("Usage: ./a.out fread.c\n");  
        exit(-1);  
    }  
  
    fd = open(argv[1], O_RDONLY);  
    if(fd == -1)  
    {  
        printf("%s file does not exist\n", argv[1]);  
        exit(-1);  
    }  
    printf("Isi dari file %s adalah : \n", argv[1]);  
    while(read(fd, buf, sizeof(buf)) > 0)  
        printf("%s", buf);  
  
    close(fd);  
}
```

```
tegar@tegar-VirtualBox: ~  
25 | write(fd, buf, len); }  
    | ^^^^^^  
fcreate.c:26:2: warning: implicit declaration of function 'close' [-Wimplicit-f  
unction-declaration]  
26 | close(fd);  
    | ^^^^^^  
tegar@tegar-VirtualBox:~$ ./fread identitas.txt  
identitas.txt file does not exist  
tegar@tegar-VirtualBox:~$ ./fcreate identitas.txt  
Tekan Ctrl+D di akhir baris:  
Nama = Tegar Wisnu Noviyanto, NIM = 1200210247tegar@tegar-VirtualBox:~$ ./fcrea  
gcc -o fread fread.c  
fread.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]  
4 | main(int argc, char *argv[]){  
  | ^^^^^  
fread.c: In function 'main':  
fread.c:20:8: warning: implicit declaration of function 'read'; did you mean 'f  
read'? [-Wimplicit-function-declaration]  
20 | while(read(fd, buf, sizeof(buf)) > 0)  
    |       ^^^^^  
    |       fread  
fread.c:23:2: warning: implicit declaration of function 'close'; did you mean  
pclose'? [-Wimplicit-function-declaration]  
23 | close(fd);  
    | ^^^^^^  
    | pclose  
tegar@tegar-VirtualBox:~$ ./fread identitas.txt  
Isi dari file identitas.txt adalah :  
Nama = Tegar Wisnu Noviyanto, NIM = 1200210247tegar@tegar-VirtualBox:~$
```

3. Menambah isi file



```
tegar@tegar-VirtualBox: ~  
#include <stdio.h>  
#include <string.h>  
#include <stdlib.h>  
#include <fcntl.h>  
main(int argc, char *argv[]){  
    int fd, n, len;  
    char buf[100];  
    if(argc !=2)  
    {  
        printf("Usage: ./a.out fappend\n");  
        exit(-1);  
    }  
    fd = open(argv[1], O_APPEND|WRONLY|O_CREAT, 0644);  
    if (fd < 0)  
    {  
        perror(argv[1]);  
        exit(-1);  
    }  
    while((n =read(0, buf, sizeof(buf))) > 0)  
    {  
        len = strlen(buf);  
        write(fd, buf, len);  
    }  
    close(fd);  
}
```

"fappend.c" 25L, 422C 17,11-25 All


```
tegar@tegar-VirtualBox: ~  
pclose'? [-Wimplicit-function-declaration]  
23 | close(fd);  
    | ^^^^^  
    | pclose  
tegar@tegar-VirtualBox:~$ ./fread identitas.txt  
Isi dari file identitas.txt adalah :  
Nama = Tegar Wisnu Noviyanto, NIM = 1200210247tegar@tegar-VirtualBox:~$ ./fread  
gcc -o fappend fappend.c  
fappend.c:5:1: warning: return type defaults to 'int' [-Wimplicit-int]  
5 | main(int argc, char *argv[]){  
  | ^^^^^  
fappend.c: In function 'main':  
fappend.c:19:12: warning: implicit declaration of function 'read'; did you mean  
'fread'? [-Wimplicit-function-declaration]  
19 | while((n =read(0, buf, sizeof(buf))) > 0)  
    |             ^^^^^  
    | fread  
fappend.c:22:3: warning: implicit declaration of function 'write'; did you mean  
'fwrite'? [-Wimplicit-function-declaration]  
22 | write(fd, buf, len);  
    | ^^^^^  
    | fwrite  
fappend.c:24:2: warning: implicit declaration of function 'close'; did you mean  
'pclose'? [-Wimplicit-function-declaration]  
24 | close(fd);  
    | ^^^^^  
    | pclose  
tegar@tegar-VirtualBox:~$ ./fappend identitas.txt  
alamat = boyolalitegar@tegar-VirtualBox:~$
```

```
tegar@tegar-VirtualBox: ~  
'fwrite'? [-Wimplicit-function-declaration]  
22 |   write(fd, buf, len);  
   |   ^^^^^  
   |   fwrite  
fappend.c:24:2: warning: implicit declaration of function 'close'; did you mean  
'pclose'? [-Wimplicit-function-declaration]  
24 |   close(fd);  
   |   ^^^^^  
   |   pclose  
tegar@tegar-VirtualBox:~$ ./fappend identitas.txt  
alamat = boyolali  
tegar@tegar-VirtualBox:~$ gcc -o fread fread.c  
fread.c:4:1: warning: return type defaults to 'int' [-Wimplicit-int]  
4 | main(int argc, char *argv[]){  
  | ^^^^^  
fread.c: In function 'main':  
fread.c:20:8: warning: implicit declaration of function 'read'; did you mean 'f  
read'? [-Wimplicit-function-declaration]  
20 | while(read(fd, buf, sizeof(buf)) > 0)  
   |        ^^^^^  
   |        fread  
fread.c:23:2: warning: implicit declaration of function 'close'; did you mean  
pclose'? [-Wimplicit-function-declaration]  
23 |   close(fd);  
   |   ^^^^^  
   |   pclose  
tegar@tegar-VirtualBox:~$ ./fread identitas.txt  
Isi dari file identitas.txt adalah :  
Nama = Tegar Wisnu Noviyanto, NIM = 1200210247alamat = boyolali@.AVD  
tegar@tegar-VirtualBox:~$
```