

PRAKTIKUM SISTEM OPERASI

Modul 9 : File System Call



Disusun oleh :

Imrokatun Umi Fadhillah P

L200210267

PROGRAM STUDI TEKNIK INFORMATIKA

FAKULTAS KOMUNIKASI DAN INFORMATIKA

UNIVERSITAS MUHAMMADIYAH SURAKARTA

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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: ~  
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: ~$ ./fcreate identity.txt  
Tekan Ctrl+D di akhir baris:  
tegar@tegar-VirtualBox: ~$ ./fcreate identity.txt  
Tekan Ctrl+D di akhir baris:  
Nama = Imrokatun Umi Fadhillah, NIM = L20010267tegar@tegar-VirtualBox: ~$
```

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: ~  
fcreate.c:26:2: warning: implicit declaration of function 'close' [-Wimplicit-f  
unction-declaration]  
26 |     close(fd);  
    |     ^~~~~~  
tegar@tegar-VirtualBox:~$ ./fcreate identity.txt  
Tekan Ctrl+D di akhir baris:  
tegar@tegar-VirtualBox:~$ ./fcreate identity.txt  
Tekan Ctrl+D di akhir baris:  
Nama = Imrokatun Umi Fadhillah, NIM = L20010267tegar@tegar-VirtualBox:~$ gcc -O  
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 identity.txt  
Isi dari file identity.txt adalah :  
Nama = Imrokatun Umi Fadhillah, NIM = L20010267tegar@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_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 identity.txt  
Isi dari file identity.txt adalah :  
Nama = Imrokaton Umi Fadhillah, NIM = L20010267tegar@tegar-VirtualBox:~$  
tegar@tegar-VirtualBox:~$ 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 identity.txt  
Alamat= Sukoharjo  
tegar@tegar-VirtualBox:~$
```



```
tegar@tegar-VirtualBox: ~  
'fwrite'? [-Wimplicit-function-declaration]  
22 |     fwrite(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 identity.txt  
Alamat= Sukoharjo  
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 identity.txt  
Isi dari file identity.txt adalah :  
Nama = Imrokatun Umi Fadhillah, NIM = L20010267  
Alamat= Sukoharjo  
tegar@tegar-VirtualBox:~$
```