How the applications use the as services provided,
System Calls: laterface provided by the Os.
es/1 Nah a copy of a fik
1. Aquire the file pone
- Involves writting to the display (syscell)
- Read input from the heyboard (syseall)
2. Open the source file
- 41,0 open destinction file (syscell)
3. Loop reading from source and writing to the destinction (systall)
4. Close the files (syscolls)
Arl -> Application Programme Interface
Java AP) WIN API
Parent And
A wrepper for system call -> Benefits: Portable
-> Benefita: Portable
Simple / sate

Elegent

Version control · API provides a set of functions (forameters + return values) that are avoilable to the progresse. · System Calls are involved within the API - Why? Portability Simple Types of system colls Execute

Signal

Signal

Execute

Signal

Signal

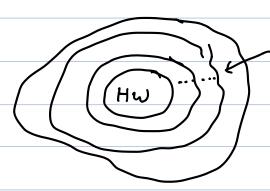
Forn (70 break) 1 · Proces, monagement 2 File Menipulation Open delete recd flush
close create write -f 3 Device Monipolation reed pour unmount write mount All of thex hore some 4 Information mointane act set time date

(5) Comunication
Send, recieur, reed, write, sochet
[6] Protection
(CHMOD, user/group Ids,)
Menory Moragement
Melloc, map & nunmap etc.
Talloc, miles a monitor
How to Structure the OD?
Lorge + Complex
Simple
stated small but grow beyond original scope
coll Ms Dos
Dish Operating System
Monolithic Kenol
Let Acts as a whole system
Operates as a whole system
TITI -> Whis one thing goes wrong
System coils Everything goes wrong everything goes.
/ Kemal

J

2 Layred Approach

- Modularize system design
 - -> broken into layers



user interface

· located in outter most

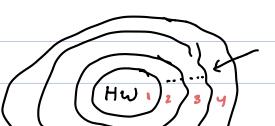
Adu

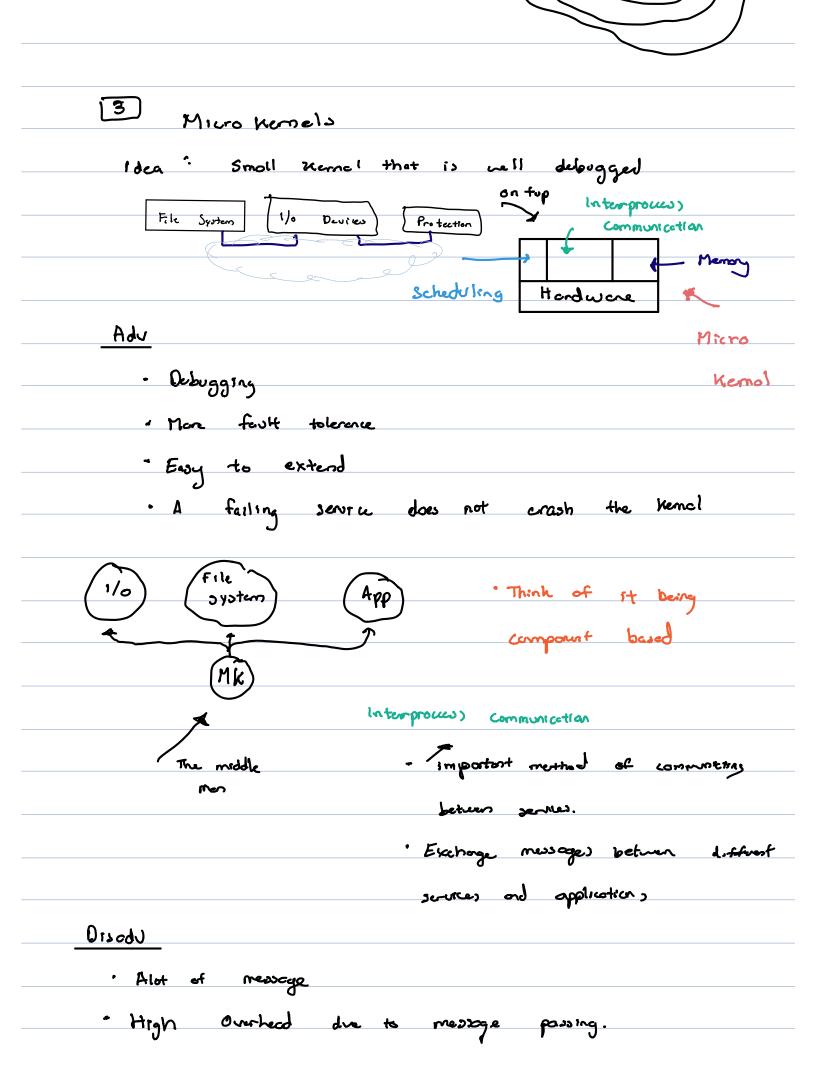
· Easier to build

- · Easier to deloug
- · Every layer contoin abstraction (Interface)
- · Hiding Information
 - · You can determine which layer had failed
 - The ability to debug each layer independently

Disadu

- Dependencies are not clear cut
- " How to assign functionality to a particular layer
- · Derfine how many layers
- · Each leger depends on the more layer
- · Less efficient





<u>[4]</u>	Modules
	Kernel has a set of cone components and additional
	services are added at runtime or boot time, called
	dynamic localeble modules
	4776-1100-0012
	<u>*</u>