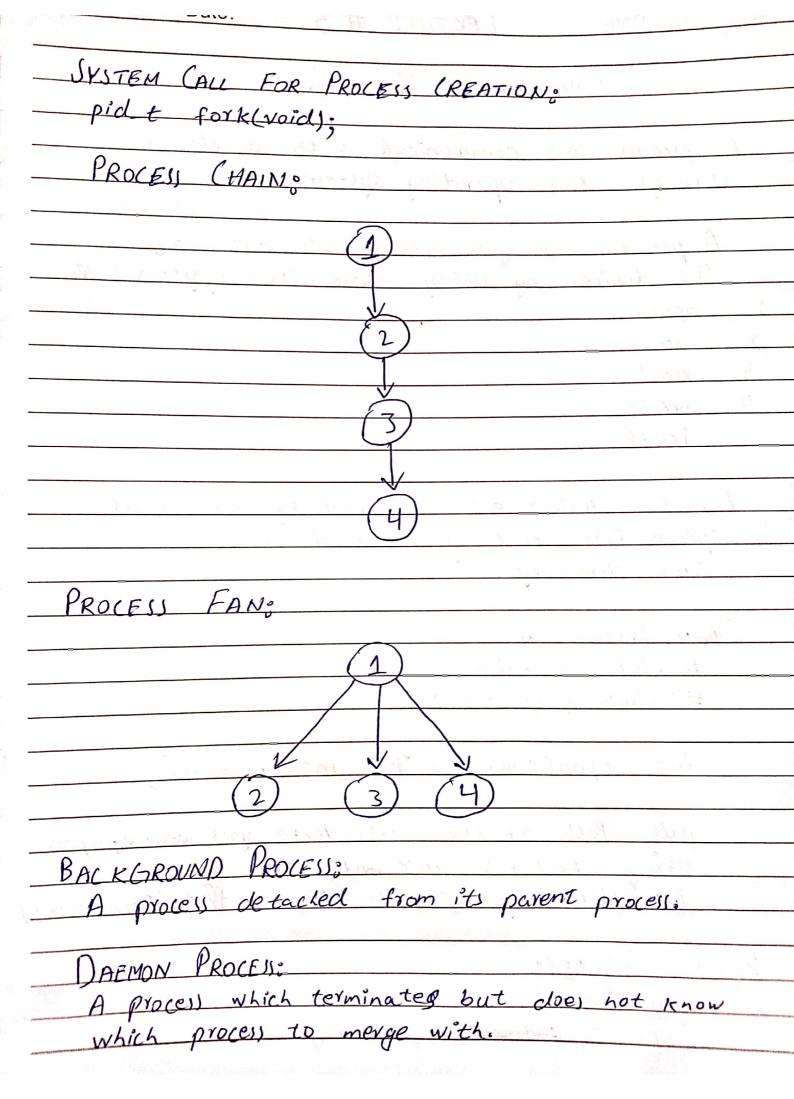
No: Date:	LECTURE #1	
-		
PARTS OF O	DERATING SYSTEM:	The said
I) Utilities		
2) User Inter.	face	VERSONAL AV BIR-
S) Core Kern	el	The state of the s
How Program	A 1	
A program	becomes a Process:	ed again that 12
a certain to	a set of instruction	ns to perform
called a	sk. A program in ex	ecution is
an object	rocess. When we comp lexecutable file is c	one a program,
Drogram an	I in order to run t	t or orange
we doubl	e click on the exe	autoble file
which basi	cally calls the for	k() system call.
	200, 0 2 (0)	(4)
LAYOUT OF	PROCTRAM IMACIE:	
		and the second s
hig h	Command-line arguments	arge, argv, environment
address	and environment variables	, 4-) 4 ,
	Stack	activation record
		for function calls.
		Y Y
		Spring I was
	Hearp	
		allocations from
	Uninitialized static data	malloc femily
1-11	9 nitialized static date	A House / TXTTALL
Low address	Program tent	
N. 14 - E - I	41	
Note: Each	thread gets its own	stack.

No: Date: LECTURE	#2	
PROCESSES IN	UHIX	A
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-
PCB of a process is un	der kernel so we can	1
not directly access the	information stored in it	
		1
SYSTEM CALLS TO GET TH	FE PID AND PPIDO	ot
pid_t getpid (void);		
pid_t getppid(void);	are and the second	
- opposition of	a la company of the second	
SOME MORE INTERESTIN	1C7 SYCTEM CALLSO	
1. gid + getegid(void); (E.		
2. uid t geteuid(void);		
3. Qit t cetaid (void)	(Parl arrive id)	
3. git t getgid (void).	1 10 - 1 - 1 - 1)	
4. Vidt getuid (void)	(Real User 1a)	
Property State	normal or	
PROCESS STATE:	termination	
10N >	(Running)	
Selected to run	(Done)	
- Cololt		
Process quarentin	red 10 request	
Created quantity	10 1890852	
(New) TReady)		
	(Blocked)	
I/O con	mplete	
Winds oder land		
CONTEXT SWITCH:	Anaxiv Cont.	
A second	oth another in the	
CPU is known as contex	I Switching.	
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	- Switching.	
	- 14 7) Aug (9) (1) (4) (4) (5)	



but: Pointer to a buffer

nbyte: Number of bytes you want to write

CHAPTER #4

If a process wants to communicate with multiple devices and the first device it checks is not available then it will get blocked and it will wait for that device to become available, instead of moving on and use the other device which is available. To avoid this problem we can use the select function call.

The select Function Calls
#include < sys/select.h>

int nfds: max fd+1

readfols: devices you want to monitor for reading writefols: devices you want to monitor for writing errorfols: devices you want to monitor for error timeout: time in sec/micro seconds you want to wait for any our the device to become available.

On successful return, select clears all the descriptors in each or readfds, writefds and errorfds except those descriptors that are ready.

No: Date:	The many services the services of the services	
RETURN VALUES:		
O: timeout	the first took was a self	
	mile part from it wind	
	the it organisms the interior	
No of descriptors that have events: Success		
	or the product of the contract of	
The struct pollfd	structure includes the	
following members	and i waterwarded as mapping	
int fds:	/ file descriptor	
short events; // requested events (read, write, error).		
short revents	; 11 returned events	
	* (10 10 2° 11 10 2°	
VAL	UES OF EVENT FLACTS	
y transition of the first of the first	FOR THE POLL FUNCTION	
Event Flag	Meaning	
POLLIN	read other than high priority data	
	Without blocking.	
POLLRDNORM	read normal data without blocking.	
POLLPRI	read normal data without blocking.	
POLLRDBAND	read priority data without blocking.	
POLLOUT	write normalidata without blacking.	
POLLWRNORM	Jame as POLLOUT	
POLLERR	error occurred on the descriptor	
POLLHUP	device has been disconnected	
POLUNVAL	file descriptor invalid	
7 7°	mer (show the contract of the	
Set events to con	tain the events to monitor; poll	
fills the revents with the events that have occured.		
Example on book page #153		