Overlapped IO Scheduling

PID/P#	AT	BT	IO Time1	CPU	IO Time 2	FT
			20%	70%	10%	
1	0	10	2	7	1	10
2	0	20	4	14	2	25
3	0	30	6	21	3	47

Compute the idle time of the CPU.

I	P1	P1	P1	P2	P3

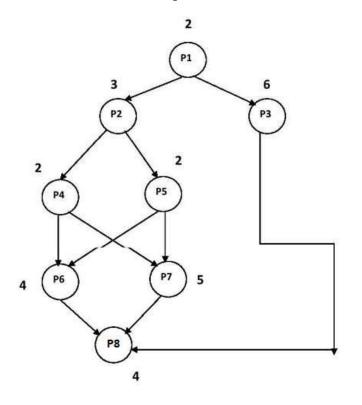0   2   4   6   9   23   44   **P3-Io till 47**

Total Idle Time of CPU = 2+3 = 5 out of 47 =10.6%

Multiprocessor Scheduling Example

Given the following processes precedence setup and conditions that (i) kernel is NPE (ii) one process cannot run on two CPU's at same time; Compute the Finish times of all processes using a 2 processor setup. BT's are indicated close to each process and arrow marks indicate precedence

	0	2	3	5	7	8	9	13	14	18
Pro1	Idle		P2		P4	P5		P6		P8
Pro2	P1		P3				Idl	P7		Idle

Inter Process Communication

```c
int b=50;
int main()
 {
int pid; int a=5;
pid=fork();
if(pid>0)
{
a++;b++;
printf("Values of  a and b %d %d,a,b");
}
if(pid==0) {
printf("Values of a and b from Child");
printf("Values of  a and b %d %d,a,b");
}
return 0; }
```