

5000	8000	12000
5001	8001	12001
5002	8002	12002
5003	8003	12003
5004		12004
5005		12005
5006		12006
5007		12007
5008		12008
5009		12009
5010		12010
5011		12011
<b>(a) Trace of Process A</b>	<b>(b) Trace of Process B</b>	<b>(c) Trace of Process C</b>

5000 = Starting address of program of Process A  
8000 = Starting address of program of Process B  
12000 = Starting address of program of Process C

**Figure 3.3 Traces of Processes of Figure 3.2**

1	5000			27	12004		
2	5001			28	12005		
3	5002					-----	Time out
4	5003			29	100		
5	5004			30	101		
6	5005			31	102		
		-----	Time out	32	103		
7	100			33	104		
8	101			34	105		
9	102			35	5006		
10	103			36	5007		
11	104			37	5008		
12	105			38	5009		
13	8000			39	5010		
14	8001			40	5011		
15	8002					-----	Time out
16	8003			41	100		
		-----	I/O request	42	101		
17	100			43	102		
18	101			44	103		
19	102			45	104		
20	103			46	105		
21	104			47	12006		
22	105			48	12007		
23	12000			49	12008		
24	12001			50	12009		
25	12002			51	12010		
26	12003			52	12011		
						-----	Time out

100 = Starting address of dispatcher program

Shaded areas indicate execution of dispatcher process;  
 first and third columns count instruction cycles;  
 second and fourth columns show address of instruction being executed

**Figure 3.4 Combined Trace of Processes of Figure 3.2**