

## 11.1 Snapshots

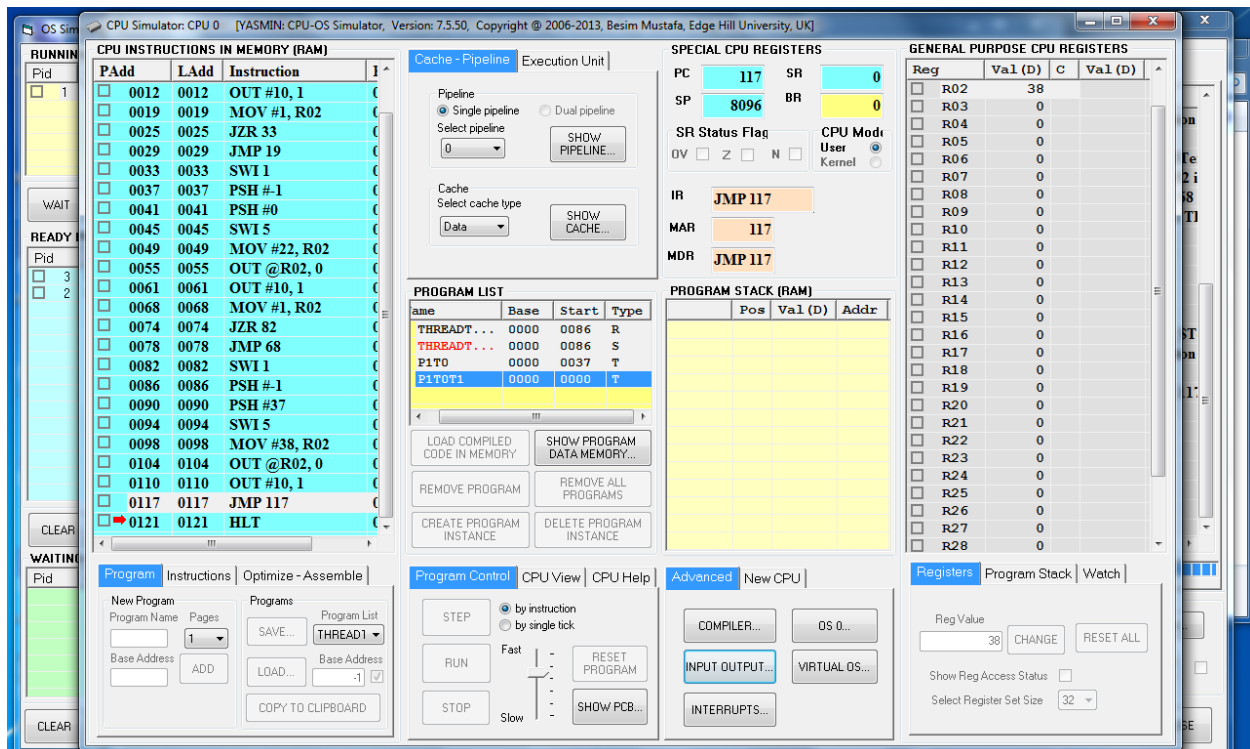
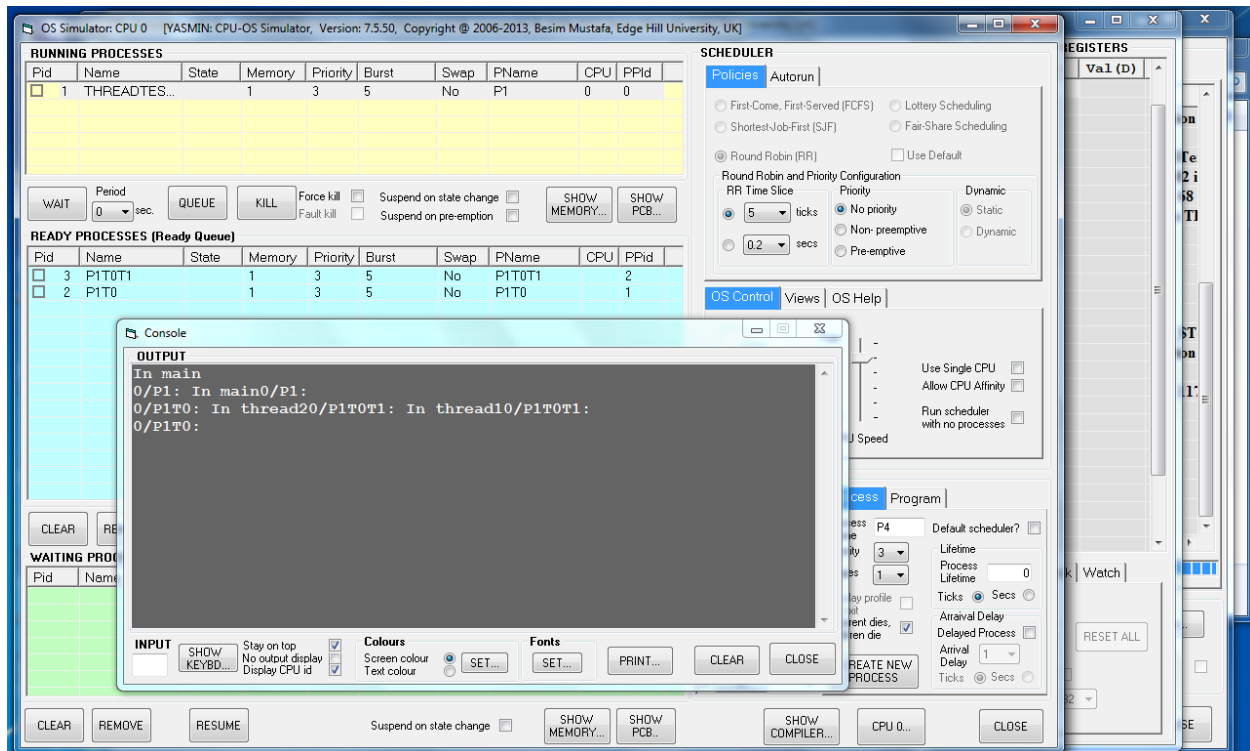
The screenshot displays the YASMIN CPU-OS Simulator interface. The main window shows the 'RUNNING PROCESSES' table with one entry: THREADTEST1 (Pid 1, State 1, Memory 3, Priority 5, Burst No, PName P1, CPU 0, PPid 0). Below this is the 'READY PROCESSES (Waiting Queue)' table with two entries: P1T0T1 (Pid 3, State 1, Memory 18, Priority 3, Burst No, PName P1, CPU 0, PPid 0) and P1T0 (Pid 2, State 1, Memory 18, Priority 3, Burst No, PName P1, CPU 0, PPid 0). The 'WAITING PROCESSES (Waiting Queue)' table is empty. The 'Process List' dialog box is open, showing a table with columns: PID, Name, PPID, Pri, CPU, STA, MEM, CPU, BTM. It lists three entries: 1. THREADTEST1 (PPID 0, Pri 3, CPU 702, STA Running, MEM 1, CPU 0, BTM 2268), 2. P1T0 (PPID 1, Pri 3, CPU 700, STA Ready, MEM 1, CPU 0, BTM 2268), and 3. P1T0T1 (PPID 2, Pri 3, CPU 695, STA Ready, MEM 1, CPU 0, BTM 2268). The 'SCHEDULER' panel on the right shows the 'Policies' tab with 'Round Robin (RR)' selected. The 'OS Control' panel shows 'VIEW PROCESS LIST...' and 'VIEW PROCESS STATES...' buttons. The 'PROGRAM LIST' panel shows 'ThreadTEST1' as the selected process.

PID	Name	PPID	Pri	CPU	STA	MEM	CPU	BTM
1	THREADTEST1	0	3	702	Running	1	0	2268
2	P1T0	1	3	700	Ready	1	0	2268
3	P1T0T1	2	3	695	Ready	1	0	2268

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```
graph TD
    Root[Root Process] --> T1[THREADTEST1: CPU 0, Pid 1, Ready]
    T1 --> P2[P1T0: CPU 0, Pid 2, Running]
    P2 --> P3[P1T0T1: CPU 0, Pid 3, Ready]
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## 11.2 Snapshots



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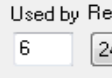

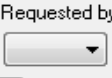


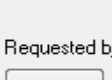
PID	Name	PPID	Pri	CPUT	STA	MEM	CPU	ETM
5	P1	0	3	5	Running	1	0	1458
6	P2	1	3	2	Waiting	1	0	1458
7	P3	2	3	2	Waiting	1	0	1458
8	P4	3	3	2	Waiting	1	0	1458
9	P5	4	3	2	Waiting	1	0	1458




Stay on top ☐ PROCESS TREE... PCB... PROFILE... CLOSE

**System Resources**

Allocating resources for process id

**Resource List**

Resource	Used by	Requested by	Used by	Requested by	Used by	Requested by	
 R0	<input type="text" value="6"/>	<input type="text" value="24"/>	 R1	<input type="text" value="6"/>	<input type="text" value=""/>	 R2	<input type="text" value=""/>
 R3	<input type="text" value=""/>	<input type="text" value=""/>	 R4	<input type="text" value=""/>	<input type="text" value=""/>	 R5	<input type="text" value=""/>

Resource colour key:  Available  Allocated only  Allocated + Requested

Stay on top ☒

**Prevent**

Disallow hold and wait ☐

Disallow circular wait ☐

Use total ordering ☐

**Recover**

Abort processes ☐

Pre-empt resources ☐

**Avoid**

☐ Enable

**Detect**

Do not detect ☐ ☐ Every  sec

☐ Randomly ☐ CPU Utilization <  %

☒ After every alloc. and de-alloc.

**SHOW DEADLOCKED PROCESSES...**

Deadlock Count  **RESET**

**RELEASE ALL**

**CLOSE**