

CPU Scheduling Visualizer — Report

Algorithm: RR

Metric	Value
CPU Utilization (RUN)	71.70%
CPU Utilization (RUN+CS)	96.23%
Throughput	0.0755 / time unit
Total Time	53.00
Total Context Switches	13
Avg Waiting Time	21.00
Avg Turnaround Time	30.50
Avg Response Time	3.75

Processes

PID	Arrival	Burst
P1	7	11
P2	5	17
P3	5	6
P4	2	4

Per-process Metrics

PID	RT	WT	TT
P1	9.00	28.00	39.00
P2	1.00	31.00	48.00
P3	5.00	16.00	22.00
P4	0.00	9.00	13.00
AVG	3.75	21.00	30.50

Algorithm Explanation

RR (Round Robin)

Preemptive time-sharing scheduler using a fixed quantum.

How it works: Use a FIFO ready queue. Run head process for at most quantum. If unfinished, re-queue it at the tail. Decisions happen every quantum or completion.

Pros	Cons
<ul style="list-style-type: none">Fair CPU sharingGood response time for interactive workloads	<ul style="list-style-type: none">Too small quantum → high overhead; too large → behaves like FCFSWaiting time may increase for long jobs

Gantt Chart

RR

