

FCFS Sample Run:

***** System Informations *****

Time unit: 0

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 0

State: RUNNING

Process ID: 1

Program Counter: 0

State: NEW

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 1

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 1

State: RUNNING

Process ID: 1

Program Counter: 0

State: NEW

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 2

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: 1

Ready Queue: [3]

IO: []

===== Processes =====

Process ID: 0

Program Counter: 2

State: RUNNING

Process ID: 1

Program Counter: 0

State: RUNNING

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: READY

***** System Informations *****

Time unit: 3

CPU ID : 1

Process id Running: 3

CPU ID : 2

Process id Running: 1

Ready Queue: []

IO: [0]

===== Processes =====

Process ID: 0

Program Counter: 2

State: WAITING

Process ID: 1

Program Counter: 1

State: RUNNING

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: RUNNING

***** System Informations *****

Time unit: 4

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: 1

Ready Queue: []

IO: [0, 3]

===== Processes =====

Process ID: 0

Program Counter: 2

State: WAITING

Process ID: 1

Program Counter: 2

State: RUNNING

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: WAITING

***** System Informations *****

Time unit: 5

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: 1

Ready Queue: []

IO: [3]

===== Processes =====

Process ID: 0

Program Counter: 3

State: RUNNING

Process ID: 1

Program Counter: 3

State: RUNNING

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: WAITING

***** System Informations *****

Time unit: 6

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [3]

===== Processes =====

Process ID: 0

Program Counter: 4

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: WAITING

***** System Informations *****

Time unit: 7

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: 3

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 5

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 1

State: RUNNING

***** System Informations *****

Time unit: 8

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: 3

Ready Queue: []

IO: [0]

===== Processes =====

Process ID: 0

Program Counter: 5

State: WAITING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 2

State: RUNNING

***** System Informations *****

Time unit: 9

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [0, 3]

===== Processes =====

Process ID: 0

Program Counter: 5

State: WAITING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 2

State: WAITING

***** System Informations *****

Time unit: 10

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: 2

Ready Queue: []

IO: [3]

===== Processes =====

Process ID: 0

Program Counter: 6

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: RUNNING

Process ID: 3

Program Counter: 2

State: WAITING

***** System Informations *****

Time unit: 11

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: 2

Ready Queue: []

IO: [3]

===== Processes =====

Process ID: 0

Program Counter: 7

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 1

State: RUNNING

Process ID: 3

Program Counter: 2

State: WAITING

***** System Informations *****

Time unit: 12

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: 3

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 8

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 1

State: WAITING

Process ID: 3

Program Counter: 3

State: RUNNING

***** System Informations *****

Time unit: 13

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [2, 0, 3]

===== Processes =====

Process ID: 0

Program Counter: 8

State: WAITING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 1

State: WAITING

Process ID: 3

Program Counter: 3

State: WAITING

***** System Informations *****

Time unit: 14

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [0, 3]

===== Processes =====

Process ID: 0

Program Counter: 8

State: WAITING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: RUNNING

Process ID: 3

Program Counter: 3

State: WAITING

***** System Informations *****

Time unit: 15

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [0, 3, 2]

===== Processes =====

Process ID: 0

Program Counter: 8

State: WAITING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: WAITING

Process ID: 3

Program Counter: 3

State: WAITING

***** System Informations *****

Time unit: 16

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [3, 2]

===== Processes =====

Process ID: 0

Program Counter: 9

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: WAITING

Process ID: 3

Program Counter: 3

State: WAITING

***** System Informations *****

Time unit: 17

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [3, 2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: WAITING

Process ID: 3

Program Counter: 3

State: WAITING

***** System Informations *****

Time unit: 18

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: WAITING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 19

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: WAITING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 20

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 3

State: RUNNING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 21

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 3

State: WAITING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 22

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 3

State: WAITING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 23

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 4

State: RUNNING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 24

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 5

State: RUNNING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 25

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 6

State: RUNNING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 26

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 7

State: RUNNING

Process ID: 3

Program Counter: 3

State: TERMINATED

CPU 1 utilization : 66.66666666666666%

CPU 2 utilization : 33.33333333333333%

Process 0:

Turnaround Time : 17

Wait Time : 0

Response Time : 0

Process 1:

Turnaround Time : 3

Wait Time : 0

Response Time : 0

Process 2:

Turnaround Time : 16

Wait Time : 0

Response Time : 0

Process 3:

Turnaround Time : 15

Wait Time : 1

Response Time : 1

Average wait time : 0.25

SJF Sample Run:

***** System Informations *****

Time unit: 0

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 0

State: RUNNING

Process ID: 1

Program Counter: 0

State: NEW

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 1

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 1

State: RUNNING

Process ID: 1

Program Counter: 0

State: NEW

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 2

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: 1

Ready Queue: [3]

IO: []

===== Processes =====

Process ID: 0

Program Counter: 2

State: RUNNING

Process ID: 1

Program Counter: 0

State: RUNNING

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: READY

***** System Informations *****

Time unit: 3

CPU ID : 1

Process id Running: 3

CPU ID : 2

Process id Running: 1

Ready Queue: []

IO: [0]

===== Processes =====

Process ID: 0

Program Counter: 2

State: WAITING

Process ID: 1

Program Counter: 1

State: RUNNING

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: RUNNING

***** System Informations *****

Time unit: 4

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: 1

Ready Queue: []

IO: [0, 3]

===== Processes =====

Process ID: 0

Program Counter: 2

State: WAITING

Process ID: 1

Program Counter: 2

State: RUNNING

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: WAITING

***** System Informations *****

Time unit: 5

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: 1

Ready Queue: []

IO: [3]

===== Processes =====

Process ID: 0

Program Counter: 3

State: RUNNING

Process ID: 1

Program Counter: 3

State: RUNNING

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: WAITING

***** System Informations *****

Time unit: 6

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [3]

===== Processes =====

Process ID: 0

Program Counter: 4

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 0

State: WAITING

***** System Informations *****

Time unit: 7

CPU ID : 1

Process id Running: 0

CPU ID : 2

Process id Running: 3

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 5

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 1

State: RUNNING

***** System Informations *****

Time unit: 8

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: 3

Ready Queue: []

IO: [0]

===== Processes =====

Process ID: 0

Program Counter: 5

State: WAITING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 2

State: RUNNING

***** System Informations *****

Time unit: 9

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [0, 3]

===== Processes =====

Process ID: 0

Program Counter: 5

State: WAITING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: NEW

Process ID: 3

Program Counter: 2

State: WAITING

***** System Informations *****

Time unit: 10

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: 0

Ready Queue: []

IO: [3]

===== Processes =====

Process ID: 0

Program Counter: 6

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: RUNNING

Process ID: 3

Program Counter: 2

State: WAITING

***** System Informations *****

Time unit: 11

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: 0

Ready Queue: []

IO: [3]

===== Processes =====

Process ID: 0

Program Counter: 7

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 1

State: RUNNING

Process ID: 3

Program Counter: 2

State: WAITING

***** System Informations *****

Time unit: 12

CPU ID : 1

Process id Running: 3

CPU ID : 2

Process id Running: 0

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 8

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 1

State: WAITING

Process ID: 3

Program Counter: 3

State: RUNNING

***** System Informations *****

Time unit: 13

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: 0

Ready Queue: []

IO: [2, 3]

===== Processes =====

Process ID: 0

Program Counter: 9

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 1

State: WAITING

Process ID: 3

Program Counter: 3

State: WAITING

***** System Informations *****

Time unit: 14

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: 0

Ready Queue: []

IO: [3]

===== Processes =====

Process ID: 0

Program Counter: 10

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: RUNNING

Process ID: 3

Program Counter: 3

State: WAITING

***** System Informations *****

Time unit: 15

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [3, 2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: WAITING

Process ID: 3

Program Counter: 3

State: WAITING

***** System Informations *****

Time unit: 16

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: WAITING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 17

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: WAITING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 18

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 3

State: RUNNING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 19

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 3

State: WAITING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 20

CPU ID : 1

Process id Running: NONE

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 3

State: WAITING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 21

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 4

State: RUNNING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 22

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 5

State: RUNNING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 23

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 6

State: RUNNING

Process ID: 3

Program Counter: 3

State: TERMINATED

***** System Informations *****

Time unit: 24

CPU ID : 1

Process id Running: 2

CPU ID : 2

Process id Running: NONE

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 7

State: RUNNING

Process ID: 3

Program Counter: 3

State: TERMINATED

CPU 1 utilization : 64.0%

CPU 2 utilization : 44.0%

Process 0:

Turnaround Time : 14

Wait Time : 0

Response Time : 0

Process 1:

Turnaround Time : 3

Wait Time : 0

Response Time : 0

Process 2:

Turnaround Time : 14

Wait Time : 0

Response Time : 0

Process 3:

Turnaround Time : 13

Wait Time : 1

Response Time : 1

Average wait time : 0.25

Round Robin Sample Run:

***** System Informations *****

Time unit: 0

CPU ID : 1

Process id Running: 0

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 0

State: RUNNING

Process ID: 1

Program Counter: 0

State: NEW

Process ID: 2

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 1

CPU ID : 1

Process id Running: 0

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 1

State: RUNNING

Process ID: 1

Program Counter: 0

State: NEW

Process ID: 2

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 2

CPU ID : 1

Process id Running: 0

Ready Queue: [1]

IO: []

===== Processes =====

Process ID: 0

Program Counter: 2

State: RUNNING

Process ID: 1

Program Counter: 0

State: READY

Process ID: 2

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 3

CPU ID : 1

Process id Running: 0

Ready Queue: [1]

IO: []

===== Processes =====

Process ID: 0

Program Counter: 3

State: RUNNING

Process ID: 1

Program Counter: 0

State: READY

Process ID: 2

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 4

CPU ID : 1

Process id Running: 1

Ready Queue: [0]

IO: []

===== Processes =====

Process ID: 0

Program Counter: 4

State: READY

Process ID: 1

Program Counter: 0

State: RUNNING

Process ID: 2

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 5

CPU ID : 1

Process id Running: 1

Ready Queue: [0]

IO: []

===== Processes =====

Process ID: 0

Program Counter: 4

State: READY

Process ID: 1

Program Counter: 1

State: RUNNING

Process ID: 2

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 6

CPU ID : 1

Process id Running: 0

Ready Queue: [1]

IO: []

===== Processes =====

Process ID: 0

Program Counter: 4

State: RUNNING

Process ID: 1

Program Counter: 2

State: READY

Process ID: 2

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 7

CPU ID : 1

Process id Running: 0

Ready Queue: [1]

IO: []

===== Processes =====

Process ID: 0

Program Counter: 5

State: RUNNING

Process ID: 1

Program Counter: 2

State: READY

Process ID: 2

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 8

CPU ID : 1

Process id Running: 1

Ready Queue: []

IO: [0]

===== Processes =====

Process ID: 0

Program Counter: 5

State: WAITING

Process ID: 1

Program Counter: 2

State: RUNNING

Process ID: 2

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 9

CPU ID : 1

Process id Running: 1

Ready Queue: []

IO: [0]

===== Processes =====

Process ID: 0

Program Counter: 5

State: WAITING

Process ID: 1

Program Counter: 3

State: RUNNING

Process ID: 2

Program Counter: 0

State: NEW

***** System Informations *****

Time unit: 10

CPU ID : 1

Process id Running: 0

Ready Queue: [2]

IO: []

===== Processes =====

Process ID: 0

Program Counter: 6

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: READY

***** System Informations *****

Time unit: 11

CPU ID : 1

Process id Running: 0

Ready Queue: [2]

IO: []

===== Processes =====

Process ID: 0

Program Counter: 7

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: READY

***** System Informations *****

Time unit: 12

CPU ID : 1

Process id Running: 2

Ready Queue: [0]

IO: []

===== Processes =====

Process ID: 0

Program Counter: 8

State: READY

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 0

State: RUNNING

***** System Informations *****

Time unit: 13

CPU ID : 1

Process id Running: 2

Ready Queue: [0]

IO: []

===== Processes =====

Process ID: 0

Program Counter: 8

State: READY

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 1

State: RUNNING

***** System Informations *****

Time unit: 14

CPU ID : 1

Process id Running: 0

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 8

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 1

State: WAITING

***** System Informations *****

Time unit: 15

CPU ID : 1

Process id Running: NONE

Ready Queue: []

IO: [2, 0]

===== Processes =====

Process ID: 0

Program Counter: 8

State: WAITING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 1

State: WAITING

***** System Informations *****

Time unit: 16

CPU ID : 1

Process id Running: 2

Ready Queue: []

IO: [0]

===== Processes =====

Process ID: 0

Program Counter: 8

State: WAITING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: RUNNING

***** System Informations *****

Time unit: 17

CPU ID : 1

Process id Running: NONE

Ready Queue: []

IO: [0, 2]

===== Processes =====

Process ID: 0

Program Counter: 8

State: WAITING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: WAITING

***** System Informations *****

Time unit: 18

CPU ID : 1

Process id Running: 0

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 9

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: WAITING

***** System Informations *****

Time unit: 19

CPU ID : 1

Process id Running: 0

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: RUNNING

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 2

State: WAITING

***** System Informations *****

Time unit: 20

CPU ID : 1

Process id Running: 2

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 3

State: RUNNING

***** System Informations *****

Time unit: 21

CPU ID : 1

Process id Running: NONE

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 3

State: WAITING

***** System Informations *****

Time unit: 22

CPU ID : 1

Process id Running: NONE

Ready Queue: []

IO: [2]

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 3

State: WAITING

***** System Informations *****

Time unit: 23

CPU ID : 1

Process id Running: 2

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 4

State: RUNNING

***** System Informations *****

Time unit: 24

CPU ID : 1

Process id Running: 2

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 5

State: RUNNING

***** System Informations *****

Time unit: 25

CPU ID : 1

Process id Running: 2

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 6

State: RUNNING

***** System Informations *****

Time unit: 26

CPU ID : 1

Process id Running: 2

Ready Queue: []

IO: []

===== Processes =====

Process ID: 0

Program Counter: 10

State: TERMINATED

Process ID: 1

Program Counter: 3

State: TERMINATED

Process ID: 2

Program Counter: 7

State: RUNNING

CPU 1 utilization : 85.18518518518519%

Process 0:

Turnaround Time : 19

Wait Time : 4

Response Time : 0

Process 1:

Turnaround Time : 7

Wait Time : 4

Response Time : 2

Process 2:

Turnaround Time : 16

Wait Time : 2

Response Time : 2

Average wait time : 3.3333333333333335