
Com memória física suficiente para conter todas as páginas de todos os processos - FIFO

Tamanho total de memória: 100

Tamanho de cada página: 2

Delay: 5

Quantum: 30

Usando: FIFO

-- Program Stats --

LimitadoES

Start time: 32

Finish time: 103

Life time: 71

Time using CPU: 31

CPU usage: 11,65%

Time spent blocked: 40

Block count: 8

Called count: 10

Exceed quantum count: 1

Total page memory: 2

Time spent waiting for page change: 0

Time spent waiting for free memory: 0

Mistura

Start time: 33

Finish time: 262

Life time: 229

Time using CPU: 131

CPU usage: 49,25%

Time spent blocked: 10

Block count: 2

Called count: 13

Exceed quantum count: 10

Total page memory: 2

Time spent waiting for page change: 0

Time spent waiting for free memory: 0

LimitadoCPU

Start time: 0

Finish time: 266

Life time: 266

Time using CPU: 104

CPU usage: 39,10%

Time spent blocked: 0

Block count: 0

Called count: 6

Exceed quantum count: 5

Total page memory: 2

Time spent waiting for page change: 0

Time spent waiting for free memory: 0

-- SO Stats --

Total activity time: 265

CPU idle time: 0

CPU time spent in idle: 00,00%

SO execution count: 29

Illegal: 13

Violation: 0

Timer: 16

Read: 5

Write: 5

Change execution count: 27

Changes by quantum count: 16

Using 2nd Chance: False

Total page fault count: 6

Com memória física suficiente para conter todas as páginas de todos os processos - 2nd
Chance

Tamanho total de memória: 100
Tamanho de cada página: 2
Delay: 5
Quantum: 30

Usando: 2nd Chance

-- Program Stats --

LimitadoES

Start time: 32
Finish time: 103
Life time: 71
Time using CPU: 31
CPU usage: 11,65%
Time spent blocked: 40
Block count: 8
Called count: 10
Exceed quantum count: 1
Total page memory: 2
Time spent waiting for page change: 0
Time spent waiting for free memory: 0

Mistura

Start time: 33
Finish time: 262
Life time: 229
Time using CPU: 131
CPU usage: 49,25%
Time spent blocked: 10
Block count: 2
Called count: 13
Exceed quantum count: 10
Total page memory: 2
Time spent waiting for page change: 0
Time spent waiting for free memory: 0

LimitadoCPU

Start time: 0
Finish time: 266
Life time: 266
Time using CPU: 104
CPU usage: 39,10%
Time spent blocked: 0
Block count: 0
Called count: 6
Exceed quantum count: 5
Total page memory: 2
Time spent waiting for page change: 0
Time spent waiting for free memory: 0

-- SO Stats --

Total activity time: 265
CPU idle time: 0
CPU time spent in idle: 00,00%
SO execution count: 29
Illegal: 13
Violation: 0
Timer: 16
Read: 5
Write: 5
Change execution count: 27
Changes by quantum count: 16
Using 2nd Chance: False
Total page fault count: 6

Quando se tem memória suficiente para atender todas as páginas de todos os processos, usar FIFO ou Segunda Chance não gera nenhuma diferença, visto que não há necessidade de escalonar páginas por falta de espaço em memória.

Com memória física suficiente para conter 50% das páginas dos processos - FIFO

Tamanho total de memória: 4

Tamanho de cada página: 2

Delay: 5

Quantum: 30

Usando: FIFO

-- Program Stats --

LimitadoES

Start time: 32

Finish time: 357

Life time: 325

Time using CPU: 43

CPU usage: 09,41%

Time spent blocked: 80

Block count: 16

Called count: 22

Exceed quantum count: 0

Total page memory: 2

Time spent waiting for page change: 15

Time spent waiting for free memory: 25

Mistura

Start time: 33

Finish time: 417

Life time: 384

Time using CPU: 163

CPU usage: 35,67%

Time spent blocked: 90

Block count: 18

Called count: 34

Exceed quantum count: 6

Total page memory: 2

Time spent waiting for page change: 35

Time spent waiting for free memory: 45

LimitadoCPU

Start time: 0

Finish time: 457

Life time: 457

Time using CPU: 111

CPU usage: 24,29%

Time spent blocked: 20

Block count: 4

Called count: 10

Exceed quantum count: 3

Total page memory: 2

Time spent waiting for page change: 10

Time spent waiting for free memory: 10

-- SO Stats --

Total activity time: 457

CPU idle time: 140

CPU time spent in idle: 30,63%

SO execution count: 57

Illegal: 13

Violation: 0

Timer: 44

Read: 5

Write: 5

Change execution count: 21

Changes by quantum count: 9

Using 2nd Chance: False

Total page fault count: 34

Com memória física suficiente para conter 50% das páginas dos processos - 2nd Chance

Tamanho total de memória: 4

Tamanho de cada página: 2

Delay: 5

Quantum: 30

Usando: 2nd Chance

-- Program Stats --

LimitadoES

Start time: 32

Finish time: 585

Life time: 553

Time using CPU: 66

CPU usage: 10,56%

Time spent blocked: 140

Block count: 28

Called count: 36

Exceed quantum count: 0

Total page memory: 2

Time spent waiting for page change: 25

Time spent waiting for free memory: 75

Mistura

Start time: 33

Finish time: 511

Life time: 478

Time using CPU: 184

CPU usage: 29,44%

Time spent blocked: 140

Block count: 28

Called count: 44

Exceed quantum count: 6

Total page memory: 2

Time spent waiting for page change: 35

Time spent waiting for free memory: 95

LimitadoCPU

Start time: 0
Finish time: 625
Life time: 457
Time using CPU: 115
CPU usage: 18,40%
Time spent blocked: 30
Block count: 6
Called count: 12
Exceed quantum count: 3
Total page memory: 2
Time spent waiting for page change: 10
Time spent waiting for free memory: 20

-- SO Stats --

Total activity time: 625
CPU idle time: 260
CPU time spent in idle: 41,60%
SO execution count: 81
Illegal: 13
Violation: 0
Timer: 68
Read: 5
Write: 5
Change execution count: 20
Changes by quantum count: 9
Using 2nd Chance: True
Total page fault count: 58

Com uma capacidade menor de quadros na memória, o sistema passou quase metade do tempo ocioso esperando operações de gerenciamento de páginas.

Utilizando segunda chance, ocorreram mais falhas de páginas, alterou a ordem de finalização dos processos e o sistema em si demorou mais para terminar a execução.