

Experiment 01

CPU Scheduling Algorithms – First Come First Serve

D:\NotSync\Enviroment01\OS01.exe

Enter the number of processes: 3

Enter Burst Time for Process P0: 24

Enter Burst Time for Process P1: 3

Enter Burst Time for Process P2: 3

PROCESS	BURST TIME	WAITING TIME	TURNAROUND TIME
P0	24	0	24
P1	3	24	27
P2	3	27	30

Average Waiting Time: 17.00

Average Turnaround Time: 27.00



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Experiment 02

CPU Scheduling Algorithms – Shortest Job First

D:\NotSync\Enviroment01\OS02.exe

Enter the number of processes: 4

Enter Burst Time for Process P0: 6

Enter Burst Time for Process P1: 8

Enter Burst Time for Process P2: 7

Enter Burst Time for Process P3: 3

PROCESS	BURST TIME	WAITING TIME	TURNAROUND TIME
P3	3	0	3
P0	6	3	9
P2	7	9	16
P1	8	16	24

Average Waiting Time: 7.00

Average Turnaround Time: 13.00



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Experiment 03

CPU Scheduling Algorithms – Round Robin

D:\NotSync\Enviroment01\OS03.exe

Enter the no of Processes: 3

Enter Burst Time for Process P1: 24

Enter Burst Time for Process P2: 3

Enter Burst Time for Process P3: 3

Enter the size of time slice: 3

PROCESS	BURST TIME	WAITING TIME	TURNAROUND TIME
1	24	6	30
2	3	3	6
3	3	6	9

The Average Turnaround time is: 15.00

The Average Waiting time is: 5.00



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Experiment 04

CPU Scheduling Algorithms – Priority

D:\NotSync\Enviroment01\OS04.exe

Enter the number of Processes: 5

Enter the Burst Time & Priority of Process 0: 10 3

Enter the Burst Time & Priority of Process 1: 1 1

Enter the Burst Time & Priority of Process 2: 2 4

Enter the Burst Time & Priority of Process 3: 1 5

Enter the Burst Time & Priority of Process 4: 5 2

PROCESS	PRIORITY	BURST TIME	WAITING TIME	TURNAROUND TIME
1	1	1	0	1
4	2	5	1	6
0	3	10	6	16
2	4	2	16	18
3	5	1	18	19

Average Waiting Time is: 8.20

Average Turnaround Time is: 12.00



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Experiment 05

Memory Management with Fixed Partitioning Technique (MFT)

"D:\NotSync\Enviroment01\OS05 - Memory Management.exe"

Enter the total memory available (in Bytes): 1000

Enter the block size (in Bytes): 300

Enter the number of Processes: 5

Enter memory required for process 1 (in Bytes): 275

Enter memory required for process 2 (in Bytes): 400

Enter memory required for process 3 (in Bytes): 290

Enter memory required for process 4 (in Bytes): 293

Enter memory required for process 5 (in Bytes): 100

No. of Blocks available in memory: 3

PROCESS	MEMORYREQUIRED	ALLOCATED	INTERNAL FRAGMENTATION
1	275	YES	25
2	400	NO	---
3	290	YES	10
4	293	YES	7

Memory is Full, Remaining Processes cannot be accomodated

Total Internal Fragmentation is 42

Total External Fragmentation is 100



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Experiment 06

Memory Management – Memory Variable Partioning Type (MVT)

"D:\NotSync\Enviroment01\OS06 - MM.exe"

Enter the total memory available (in Bytes): 1000

Enter memory required for process 1 (in Bytes): 400

Memory is allocated for Process 1

Do you want to continue(y/n): y

Enter memory required for process 2 (in Bytes): 275

Memory is allocated for Process 2

Do you want to continue(y/n): y

Enter memory required for process 3 (in Bytes): 550

Memory is Full

Total Memory Available: 1000

PROCESS	MEMORY ALLOCATED
1	400
2	275

Total Memory Allocated is: 675

Total External Fragmentation is: 325



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Experiment 07

File Organization Techniques – Single Level Directory

"D:\NotSync\Enviroment01\OS07 - FM.exe"

Enter name of directory: CSE

1. Create File 2. Delete File
3. Search File 4. Display Files 5. Exit

Enter your choice: 1

Enter the name of the file: A

1. Create File 2. Delete File
3. Search File 4. Display Files 5. Exit

Enter your choice: 1

Enter the name of the file: B

1. Create File 2. Delete File
3. Search File 4. Display Files 5. Exit

Enter your choice: 1

Enter the name of the file: C

1. Create File 2. Delete File
3. Search File 4. Display Files 5. Exit

Enter your choice: 4

The Files are -- A B C

1. Create File 2. Delete File
3. Search File 4. Display Files 5. Exit

Enter your choice: 3

Enter the name of the file -- ABC

File ABC not found

1. Create File 2. Delete File
3. Search File 4. Display Files 5. Exit

Enter your choice: 2

Enter the name of the file: B

File B is deleted

1. Create File 2. Delete File
3. Search File 4. Display Files 5. Exit

Enter your choice: 5

Process returned 0 (0x0) execution time : 78.402 s

Press any key to continue.



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Experiment 08

File Allocation Strategies – Sequential

"D:\NotSync\Enviroment01\OS08 - FA.exe"

Enter the starting block & length of file: 4 10

4->1

5->1

6->1

7->1

8->1

9->1

10->1

11->1

12->1

13->1

The file is allocated to disk

If you want to enter more files?(y-1/n-0): n



Type here to search



Experiment 09

File Allocation Strategies – Indexed

"D:\NotSync\Enviroment01\OS09 - FA.exe"

Enter index block: 9

Enter no of files on index: 3 1

2 3

Allocated

File indexed

9->1:1

9->2:1

9->3:1Enter 1 to enter more files and 0 to exit: 0



Type here to search



Experiment 10

File Allocation Strategies – Linked