Logo, company name

Description automatically generatedLogo

Description automatically generated

**OS Core**

**Team 12**

|  |  |  |
| --- | --- | --- |
| Name | Sec | BN |
| Peter Atef | 1 | 19 |
| Bemoi Erian | 1 | 18 |
| Doaa Ashraf | 1 | 23 |
| Mark Yasser | 2 | 13 |

Spring, 2022

**Data Structure used**

HPF

* Priority queue

SRTN

* Priority queue

Round Robin

* Circular queue

**Phase 2**

Vector of linked lists, each linked list represents a certain memory size.

|  |
| --- |
| 16 |
| 32 |
| 64 |
| 128 |
| 256 |
| 512 |
| 1024 |

**Algorithm explanation and results**

**Phase 2**

* We use single input queue in Memory Management.

**Assumptions**

* Processes in process.txt are sorted by their arrival time.
* If 2 processes in process.txt have the same arrival time, we run the one that is written first in the file.

**Phase 2**

**Time taken for each task and workload distribution**

|  |  |  |
| --- | --- | --- |
| **Task** | **Workload Distribution** | **Days** |
| Process Generator | Mark Yasser, Doaa Ashraf | 1 |
| HPF | Bemoi Erian, Mark Yasser, Doaa Ashraf, Peter Atef | 2 |
| SRTN | Doaa Ashraf, Peter Atef | 7 |
| Round Robin | Bemoi Erian, Mark Yasser | 10 |
| Process | Bemoi Erian | 2 |
| Input/Output | Mark Yasser | 1 |
| Memory Management | Bemoi Erian, Mark Yasser, Doaa Ashraf, Peter Atef | 4 |