

Parallel and Distributed Processing

Assignment 01

Dynamic Memory Allocation

Attique Dawood

07-02-2025

Due: 14-02-2025 2359 Hours

Last Modified: Saturday 8th February, 2025, 09:32

Question 1:

1. Create at least one instance of processes named A, B and C.
2. A, B and C will allocate 20%, 10% and 5% of (maximum) RAM, respectively.
3. Make a memory map showing where A, B and C reside in memory.
4. You might not have enough memory to allocate a large chunk of RAM. You can come up with something like one instance of B and two instances of C [B,C1,C2]. Or maybe [C1,C2,C3]. Maybe even [A1,A2,A3] if you have a lot of free RAM.
5. Submit a pdf file with code, screenshots and calculations.

Note 1 It might be easier to do this assuming only 4 GB of maximum addressable RAM using 32 bit executable.

Note 2 Please include your complete name in the filename separated with underscores. For example, Attique_Dawood.pdf.