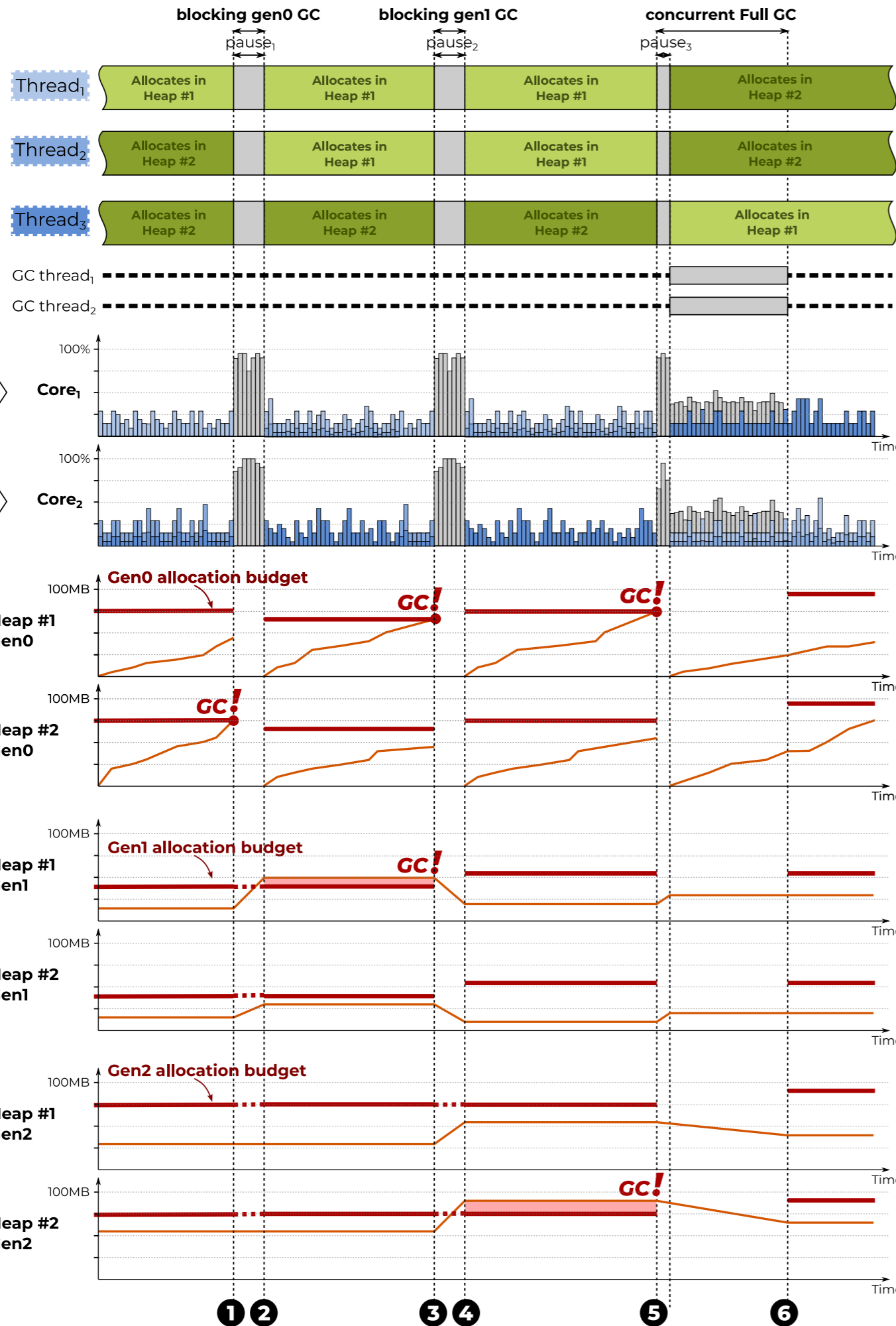
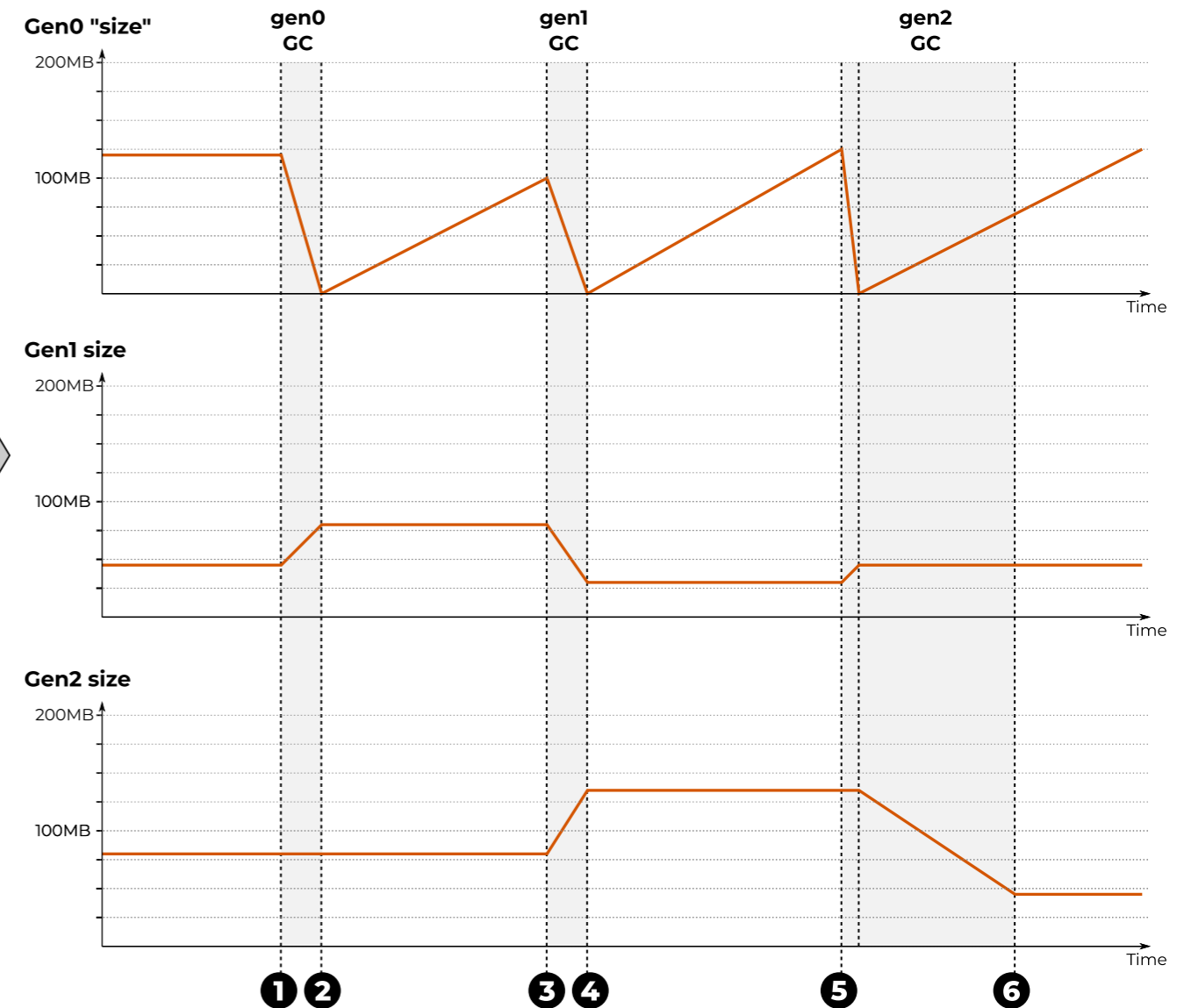


# .NET Memory Management Poster III <sup>1)2)</sup>

by @konradkokosa <https://dotnetmemoryexpert.com>



- 1 Gen0 GC is triggered because **Heap #2 gen0** allocation budget is exceeded
- 2 Gen0 drops to 0, **Gen1** grows because of promotions
- 3 Gen0 GC is triggered because **Heap #1 gen0** allocation budget is exceeded. But also **Heap #1 gen1** allocation budget is exceeded after the previous GC, so the **condemned** generation is 1, instead of just 0
- 4 Gen0 drops to 0, **Gen1** is reduced and **Gen2** grows because of promotions
- 5 Gen0 GC is triggered because **Heap #1 gen0** allocation budget is exceeded. But also **Heap #2 gen2** allocation budget is exceeded after the previous GC, so the **condemned** generation is 2, instead of just 0
- 6 Gen0 drops to 0, **Gen1** changes size and **Gen2** size is reduced



1) Based on GC Server mode with 2 CPU cores and 3 user threads. 2) Affinity between CPU core and thread and Managed Heap may change in between GCs, here it is prestened like that for simplification

