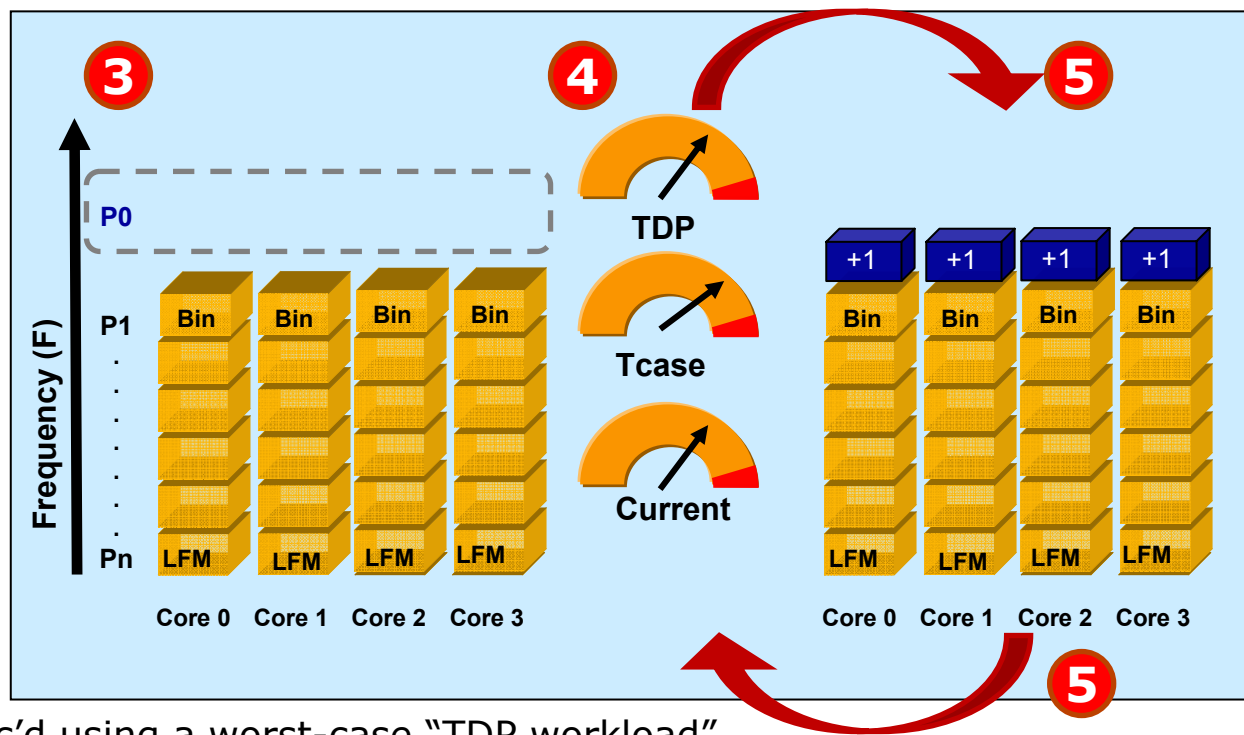
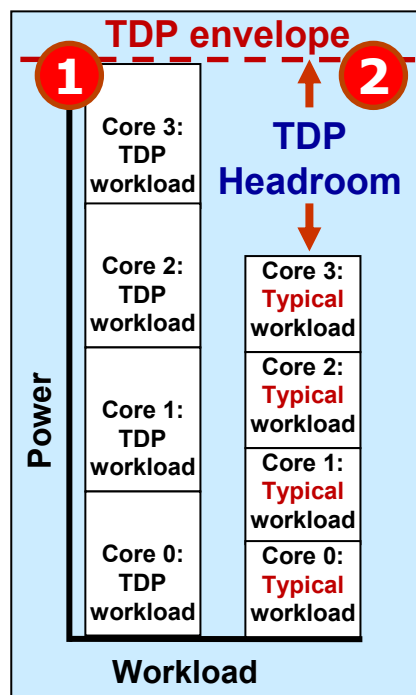


# How Turbo Mode Works (4C Mode)



- 1 CPU frequencies are spec'd using a worst-case "TDP workload"
- 2 Running "normal" workloads can result in TDP headroom, even with all cores active
- 3 When needed, OS places CPU in P0 state
- 4 CPU checks TDP, Tcase, and Icc (current) to see if there is headroom
- 5 CPU increments frequency one step; repeat until CPU hits spec or turbo frequency limit

**Turbo Mode converts thermal headroom into higher frequencies**