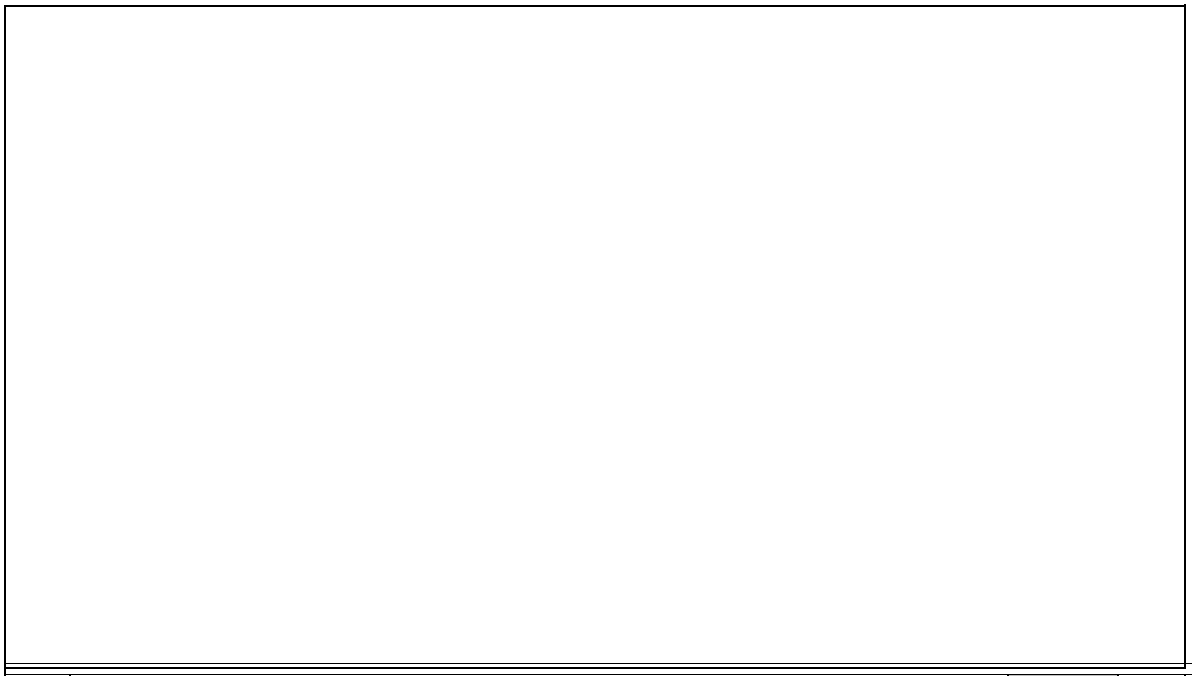
In this module we learn about multicore processors. A processor comprising multiple cores allows us to exploit thread-level parallelism. However, multicore introduces challenges such as parallel programming (programs consisting of threads that simultaneous execute on multiple cores) and cache coherence.

By the end of this module you will be able to:

- Describe the advantages and disadvantages of multicore processors compared to single core designs.
- Describe the cache coherence problem that arises in multicore processors due to inconsistencies among data found in multiple caches and in memory.
- Apply the MESI protocol to resolve the cache coherence problem.

INTRODUCING MULTICORE



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