

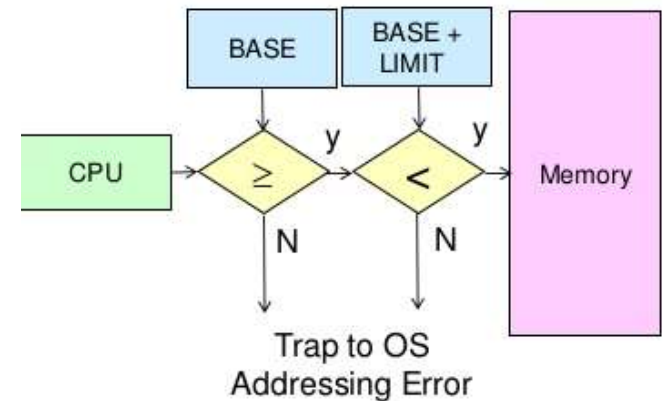
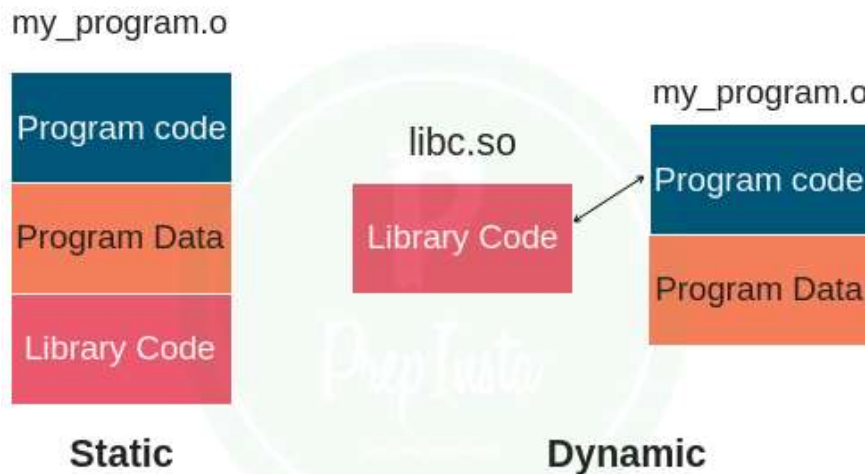
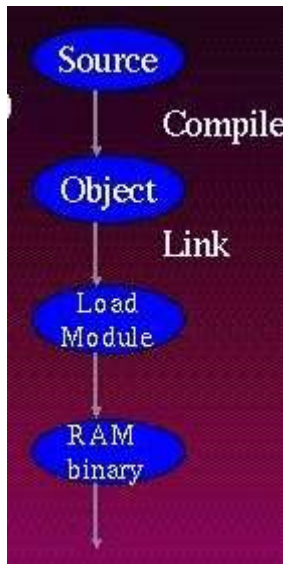


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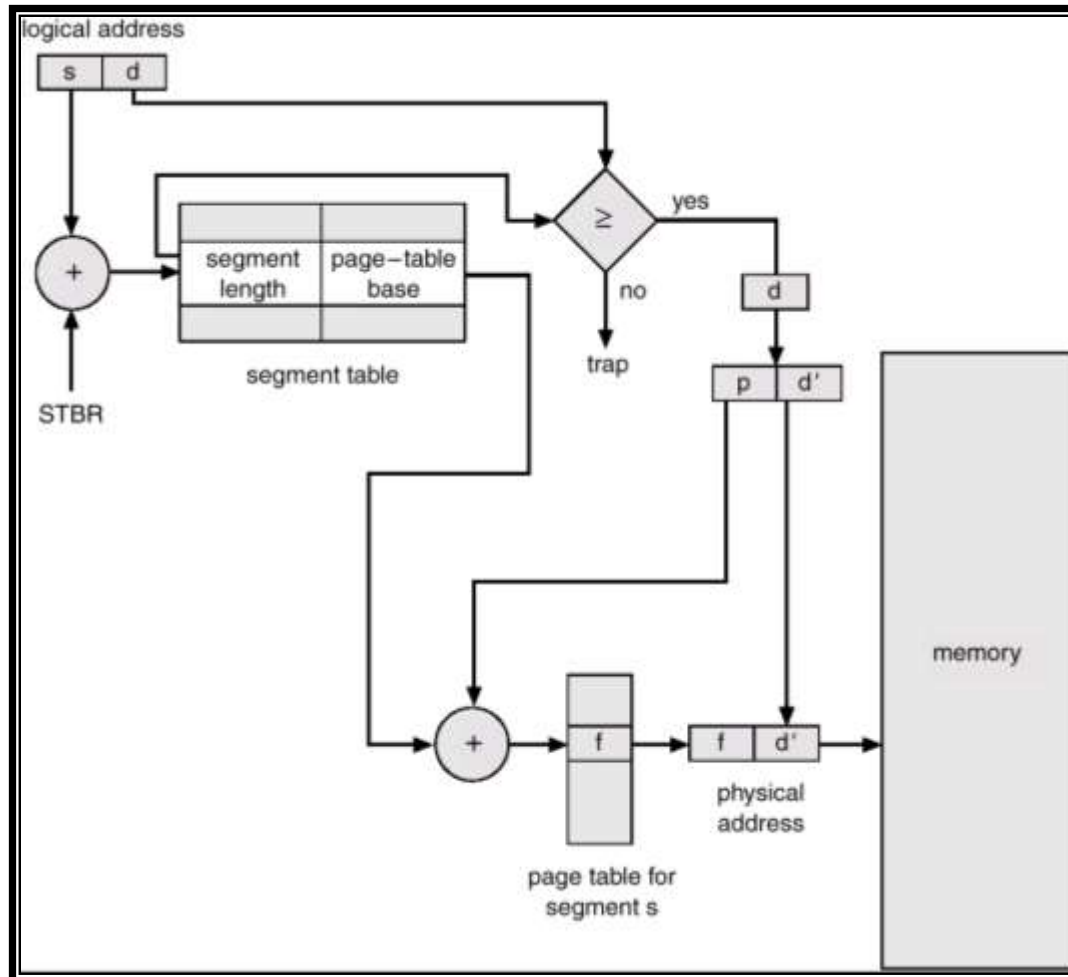
Memory Management -Segmentation with Paging



Segmentation with Paging – MULTICS

- The MULTICS system solved problems of external fragmentation and lengthy search times by paging the segments.
- Solution differs from pure segmentation in that the segment-table entry contains not the base address of the segment, but rather the base address of a *page table* for this segment.

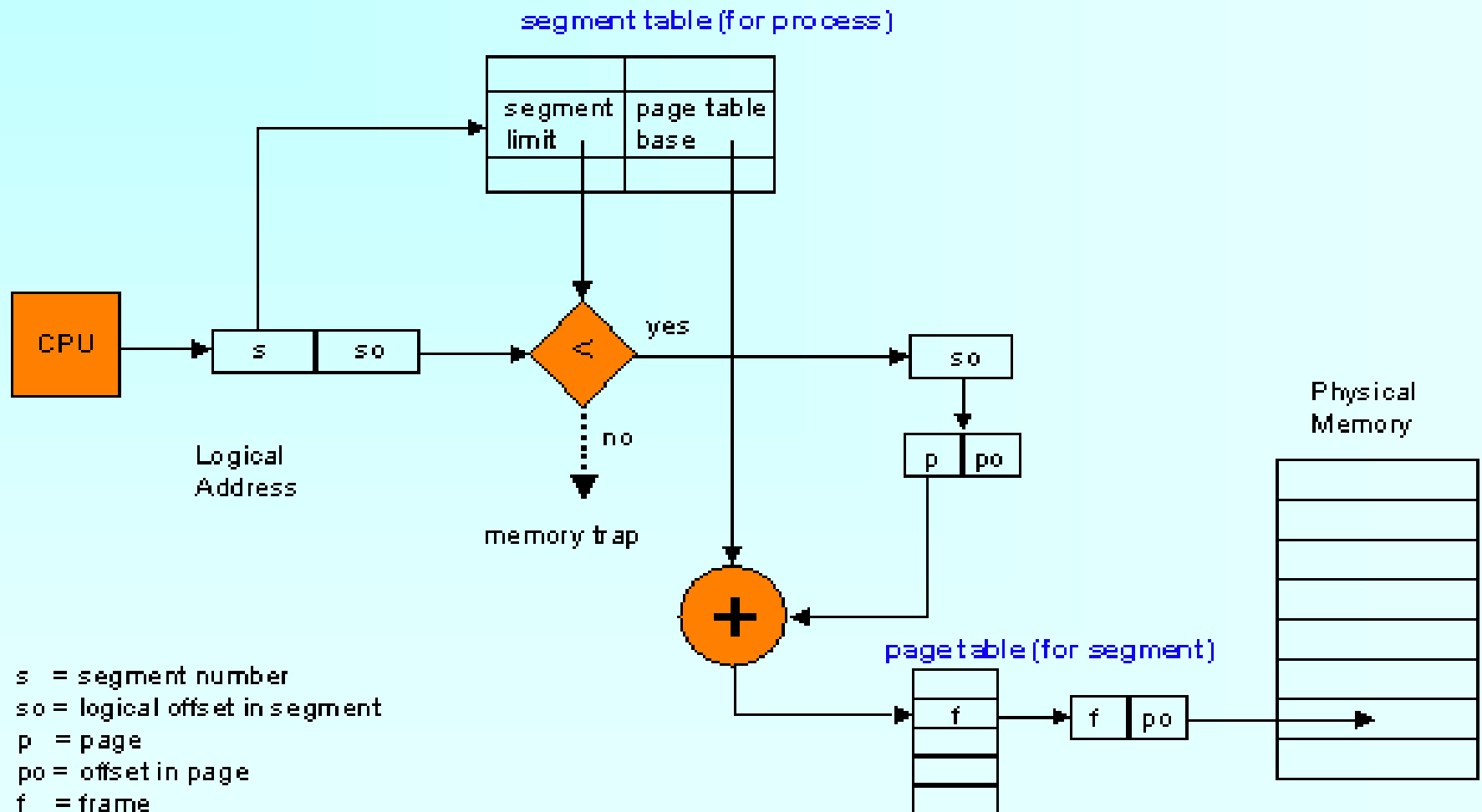
MULTICS Address Translation Scheme



Segmentation with Paging – Intel 386

- As shown in the following diagram, the Intel 386 uses segmentation with paging for memory management with a two-level paging scheme.

Architecture for Segmentation with Paging



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Summarization