

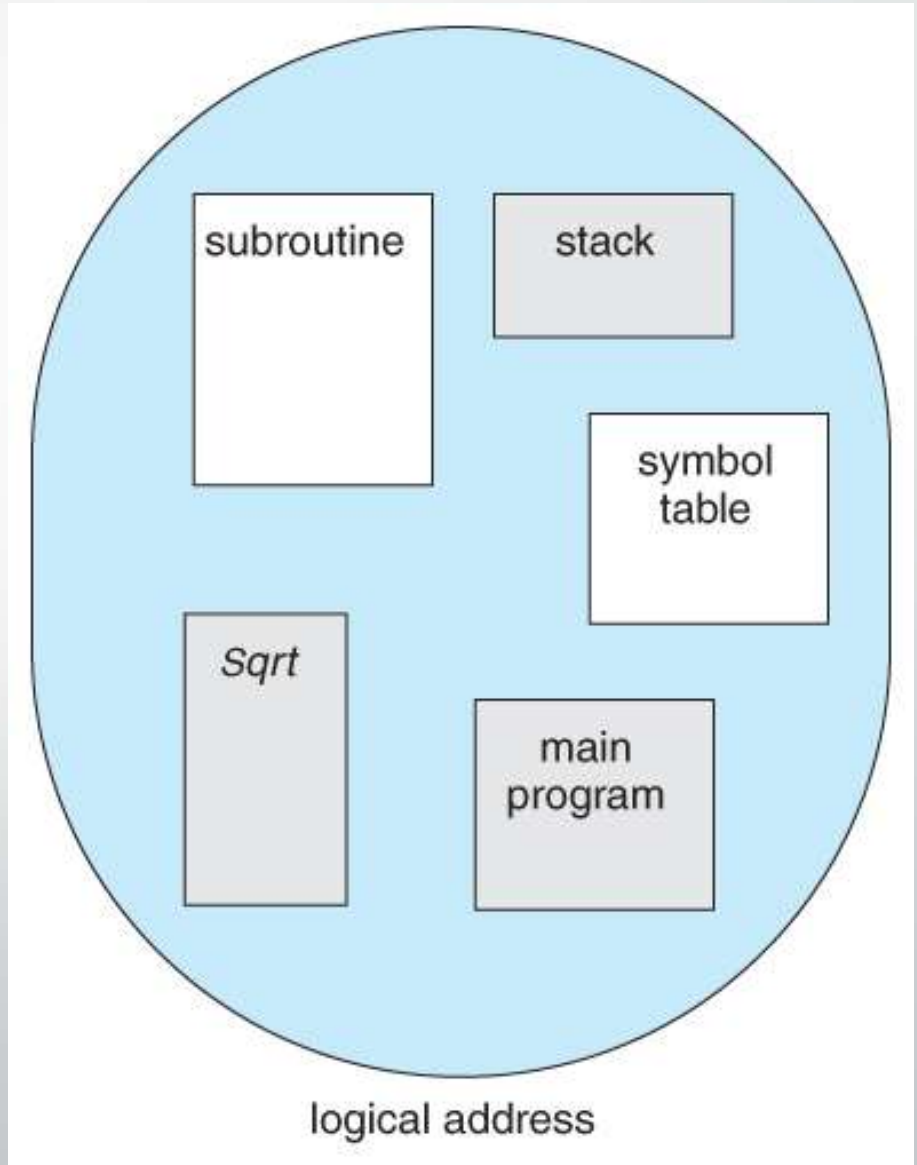
TOPIC : SEGMENTATION

PRESENTATION BY

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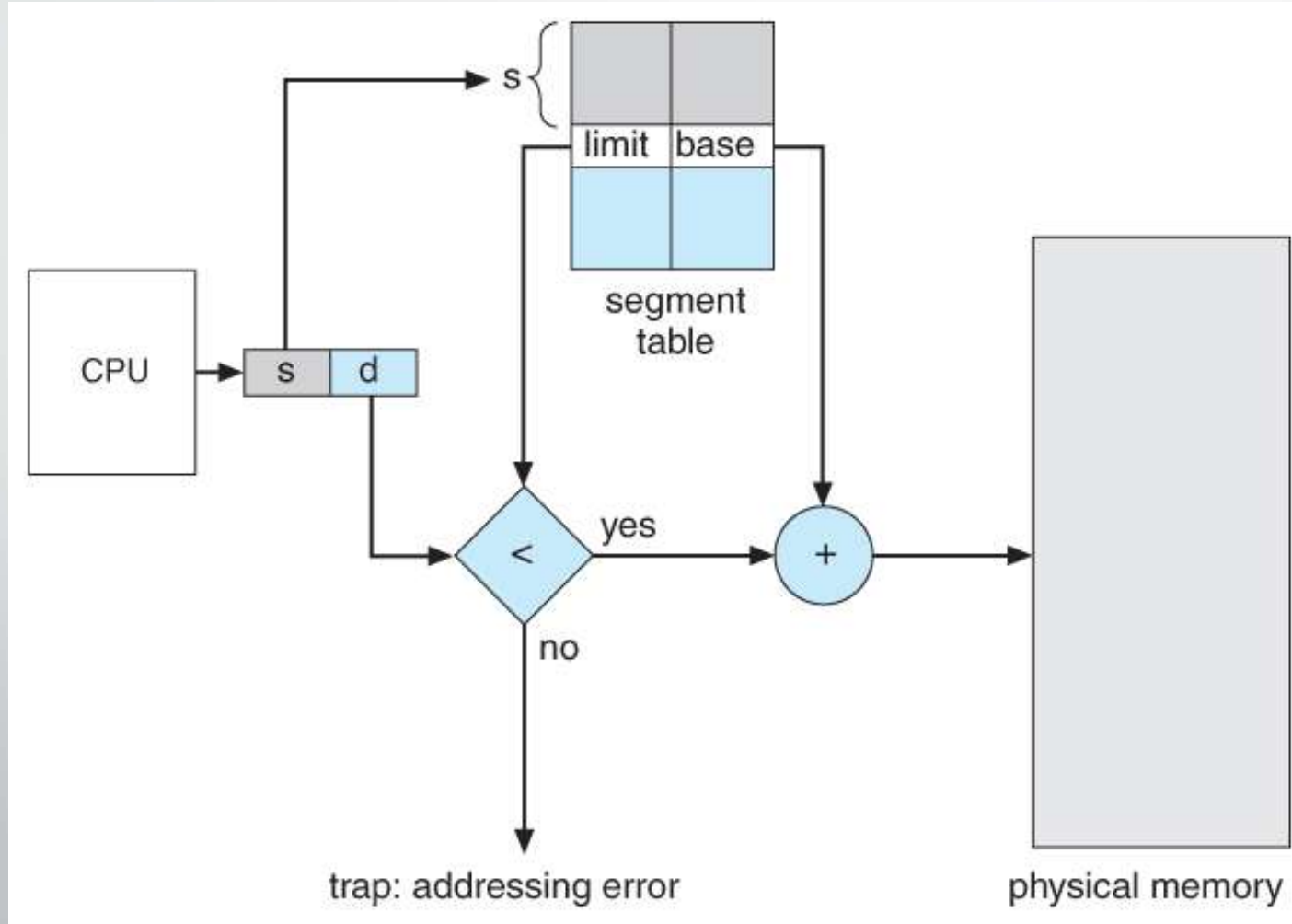
Segmentation

- Memory *segmentation* supports the view by providing addresses with a segment number (mapped to a segment base address) and an offset from the beginning of that segment.
- For example, a C compiler might generate 5 segments for the user code, library code, global (static) variables, the stack, and the heap, as shown in Figure.



- **Segmentation Hardware**

- A **segment table** maps segment-offset addresses to physical addresses, and simultaneously checks for invalid addresses, using a system similar to the page tables and relocation base registers.



Example :

