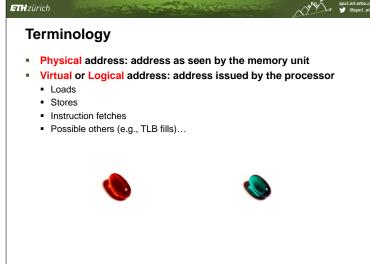




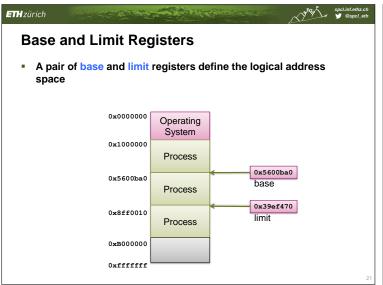
Page replacement algorithms

• Frame allocation policies





Simple(st) scheme: partitioned memory



Issue: address binding

■ Base address isn't known until load time

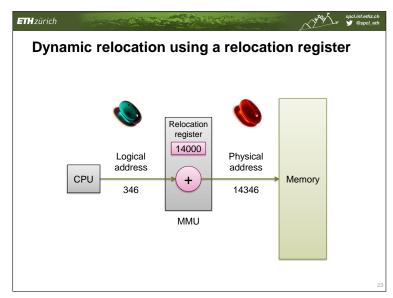
■ Options:

1. Compiled code must be completely position-independent, or

2. Relocation Register maps compiled addresses dynamically to physical addresses

ETH zürich

Contiguous allocation



Main memory usually into two partitions:
 Resident OS, usually in low memory with interrupt vector
 User processes in high memory
 Relocation registers protect user processes from
 1. each other
 2. changing operating-system code and data

 Registers:
 Base register contains value of smallest physical address
 Limit register contains range of logical addresses each logical address must be less than the limit register
 MMU maps logical address dynamically

