- segment prevents the stack from growing into the code or data space and overwriting instructions or data, respectively.
- Real-address mode memory model This is the memory model for the Intel 8086 processor. It is supported to provide compatibility with existing programs written to run on the Intel 8086 processor. The real-address mode uses a specific implementation of segmented memory in which the linear address space for the program and the operating system/executive consists of an array of segments of up to 64 KBytes in size each. The maximum size of the linear address space in real-address mode is 2²⁰ bytes.

See also: Chapter 15, "8086 Emulation," Intel® 64 and IA-32 Architectures Software Developer's Manual, Volume 3A.

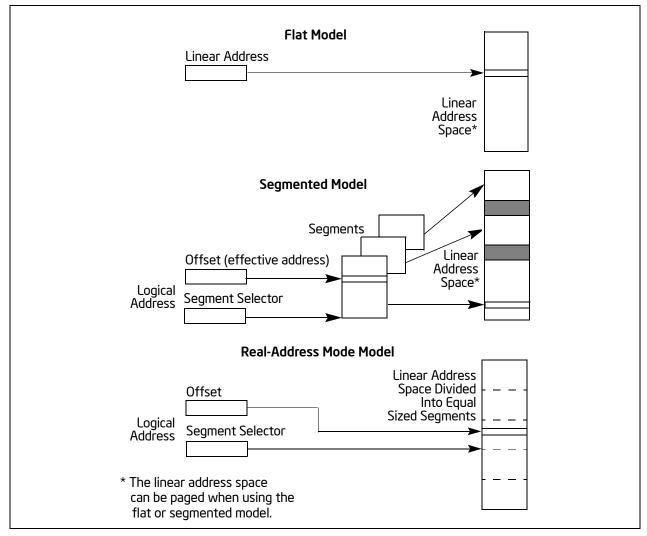


Figure 3-3. Three Memory Management Models