















Operating Systems

















Pages vs. Segmentation				
	Consideration	Paging	Segmentation	
	Need the programmer be aware that this technique is being used?	No	Yes	
	How many linear address spaces are there?	1	Many	
	Can the total address space exceed the size of physical memory?	Yes	Yes	
	Can procedures and data be distinguished and separately protected?	No	Yes	
	Can tables whose size fluctuates be accommodated easily?	No	Yes	
	Is sharing of procedures between users facilitated?	No	Yes	
	Why was this technique invented?	To get a large linear address space without having to buy more physical memory	To allow programs and data to be broken up into logically independent address spaces and to aid sharing and protection	
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