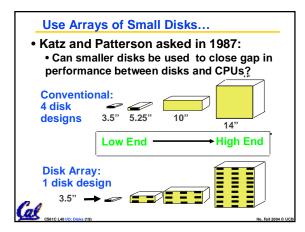




- market, more than performance
- 1970s: Mainframes Þ 14" diam. disks
- 1980s: Minicomputers, Servers P 8", 5.25" diam. disks
- Late 1980s/Early 1990s:
 - Pizzabox PCs P 3.5 inch diameter disks
 - Laptops, notebooks P 2.5 inch disks
 - Palmtops didn't use disks,

so 1.8 inch diameter disks didn't make it



Replace Small Number of Large Disks with Large Number of Small Disks! (1988 Disks)			
	IBM 3390K	IBM 3.5" 0061	x70
Capacity	20 GBytes	320 MBytes	23 GBytes
Volume	97 cu. ft.	0.1 cu. ft.	11 cu. ft. <mark>9X</mark>
Power	3 KW	11 W	1 KW 3X
Data Rate	15 MB/s	1.5 MB/s	120 MB/s <mark>8X</mark>
I/O Rate	600 I/Os/s	55 I/Os/s	3900 IOs/s <mark>6X</mark>
MTTF	250 KHrs	50 KHrs	??? Hrs
Cost	\$250K	\$2K	\$150K
Disk Arrays potentially high performance, high MB per cu. ft., high MB per KW, but what about reliability?			

