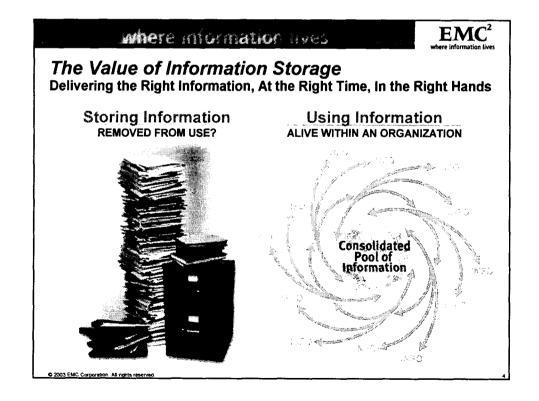
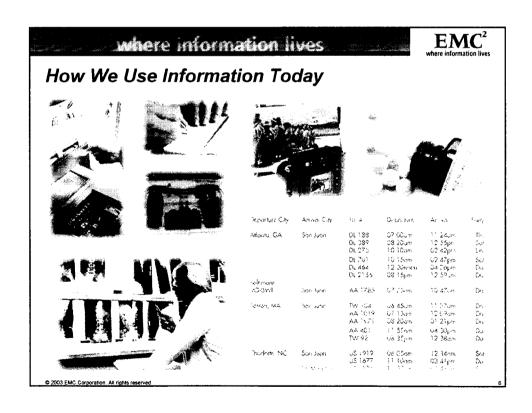


The Real Challenge Too Much Information!



What Increases the Value of Information? Having all of the information One version of the information Knowledge of the information Access to the information Security of the information Protection of the information



where information lives

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Business depends on Information

- The era of the "Fast Company"
 - Internet
 - E-commerce
 - Strategic value of knowledge
- Information-centric organizations
 - Velocity of change
 - Differentiation based on knowledge
 - Knowledge is everywhere
 - Huge growth in volume of information
- · Effective utilization of knowledge
 - Time to market
 - E-commerce presence
 - Market differentiation



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Information at Any Time, Anywhere, on Any Device, Always On

Personal / Individual
Medical, financial, academic, social, commerce

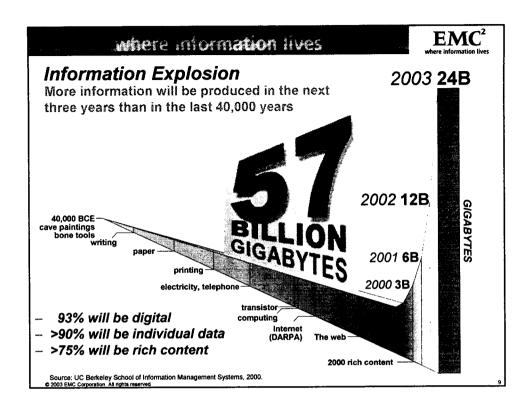
Professional / Corporate CRM, ERP, SFA, FFA, healthcare

Entertainment

News and information, video-on-demand, audio-on demand, online gaming

Communications
Video, voice, text, images

. Companies All dates



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Information Never Stops Growing

PETABYTE

1,000 terabytes (half of all U.S. academic research libraries)

TERABYTE

1,000 gigabytes (all X-rays in a large hospital)

GIGABYTE

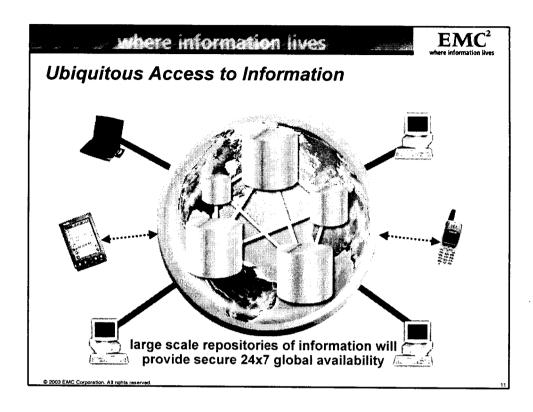
One billion bytes (Beethoven's 5th Symphony)

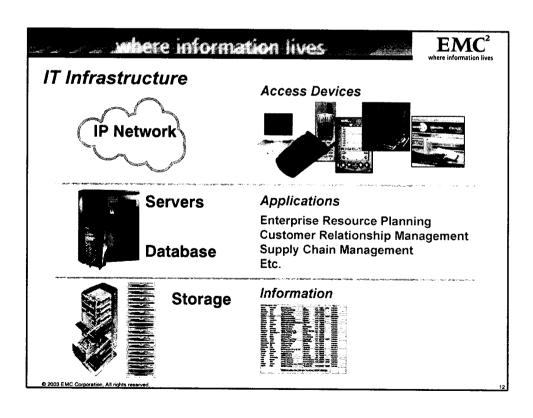
MEGABYTE

One million bytes (a small novel)

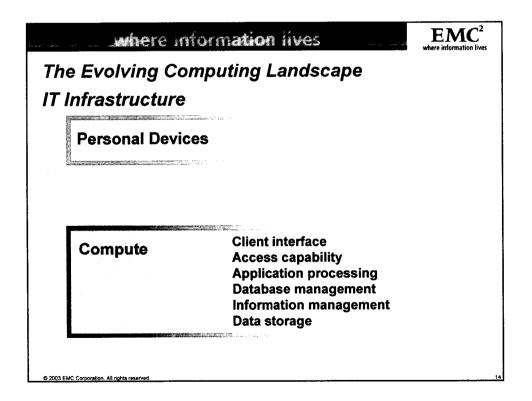
Source: Roy Williams, Center for Advanced Computing Research, California Institute of Technology 9,003 FMC Compution, All debts reserved

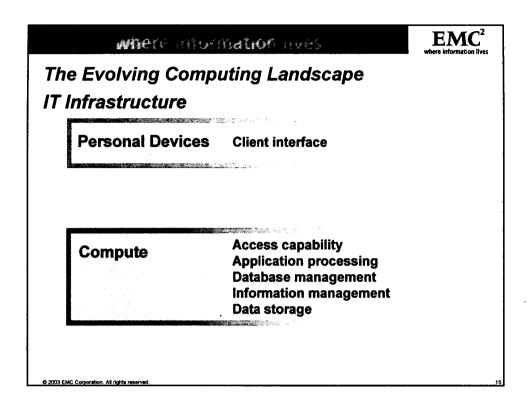
D 2003 EMC Corporation. All rights reserved

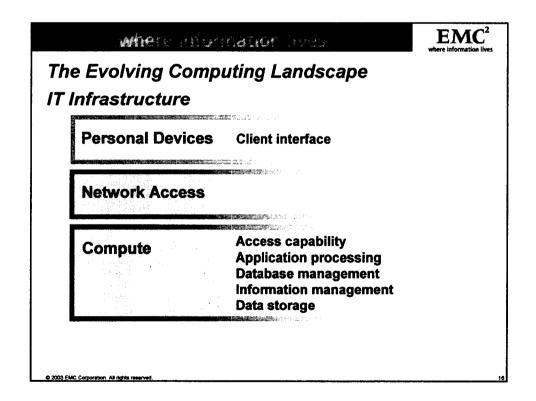




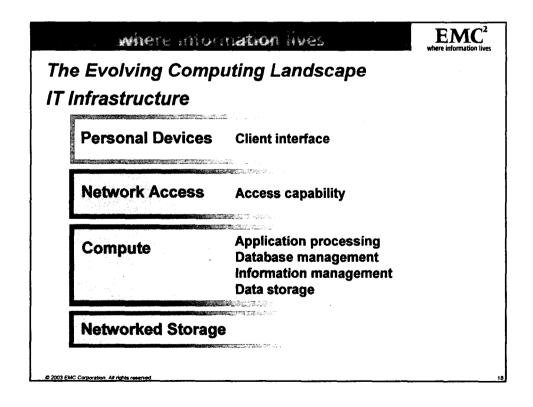
The Evolving Computing Landscape IT Infrastructure Compute Client interface Access capability Application processing Database management Information management Data storage



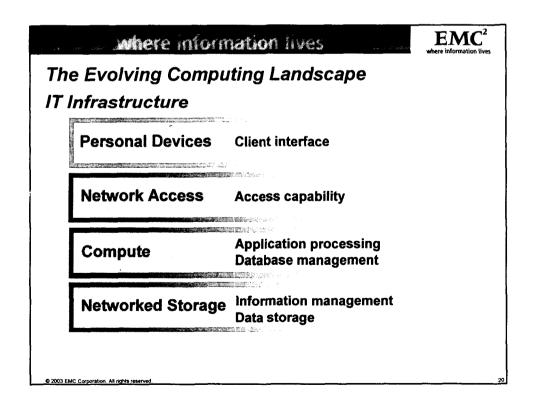


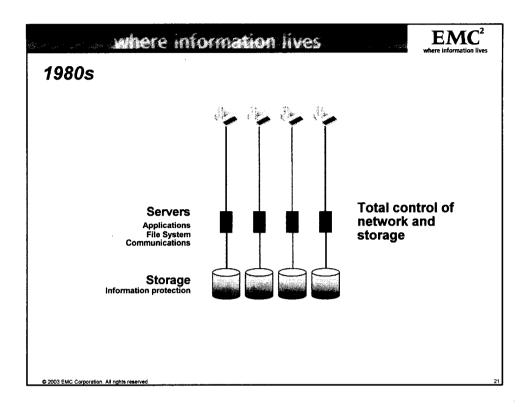


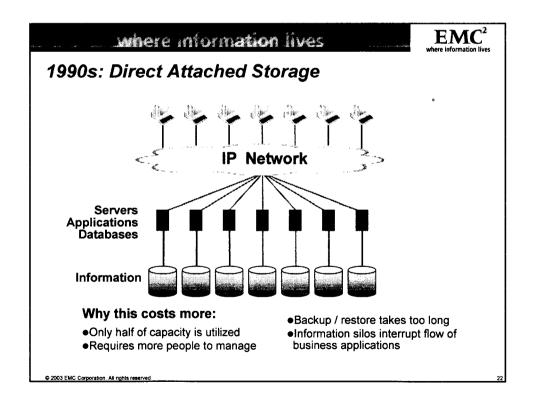
nfrastructure	e a	
Personal Devices	Client interface	
Network Access		
Compute	Application processing Database management Information management Data storage	

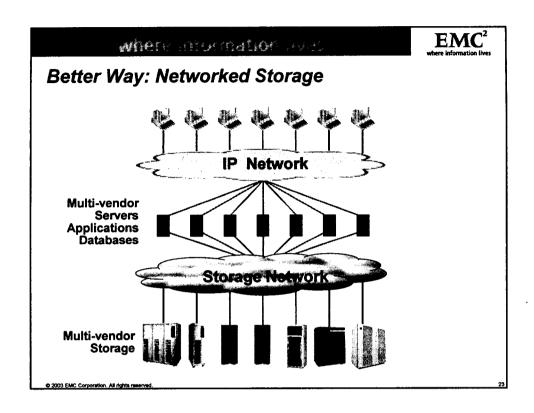


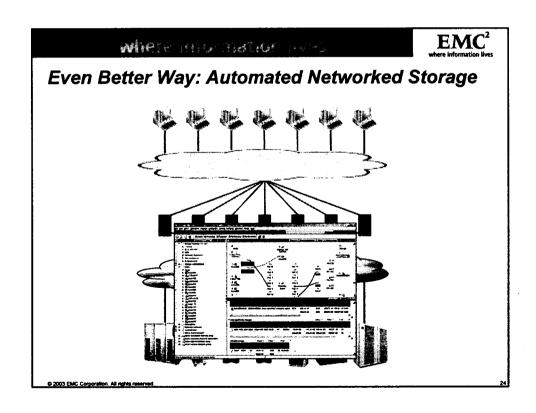
ofrastructure	uting Landscape
Personal Devices	Client interface
Network Access	Access capability
Compute	Application processing Database management Information management
Networked Storage	

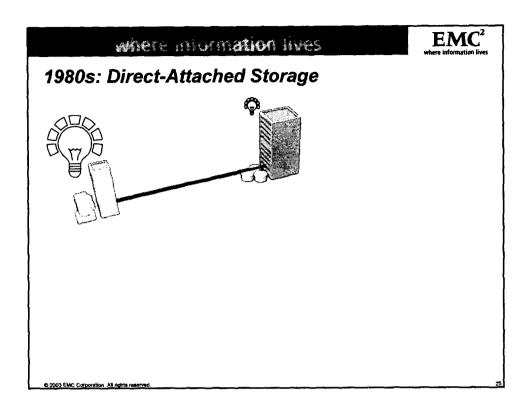


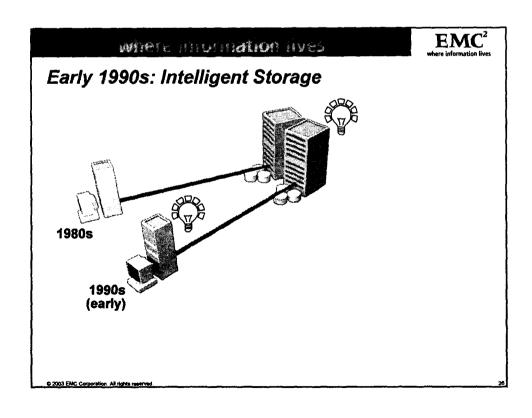


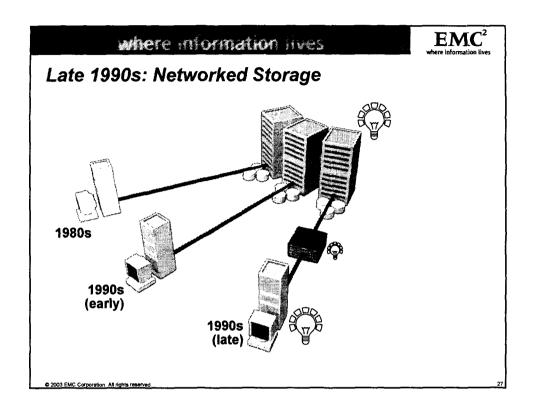


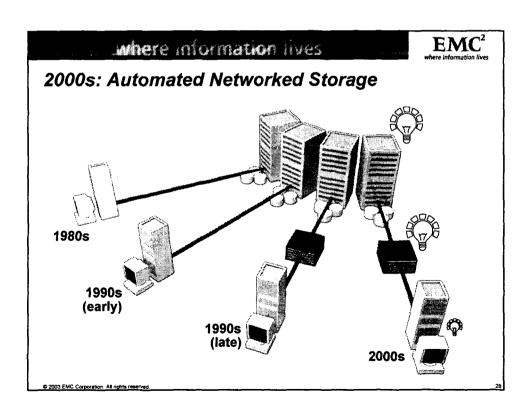


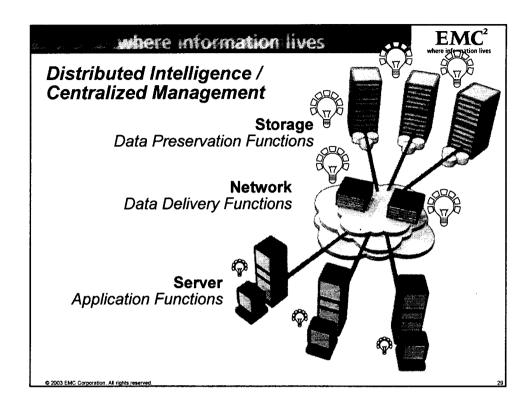


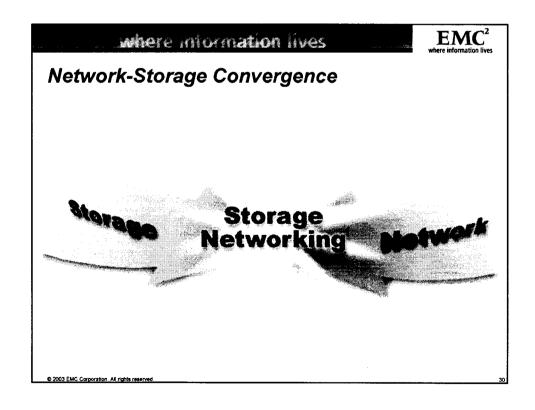


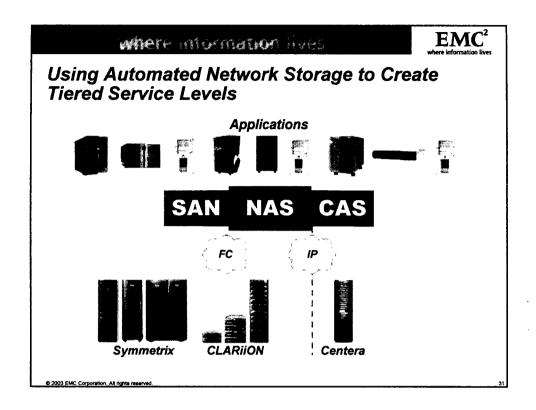




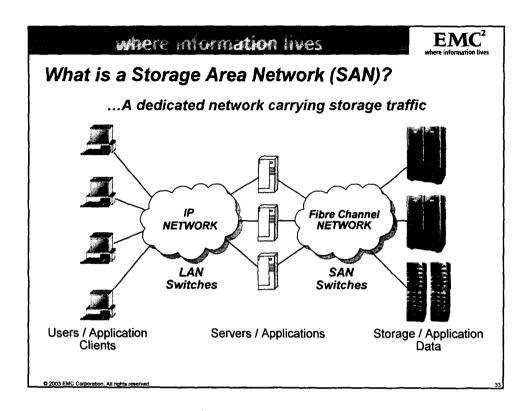


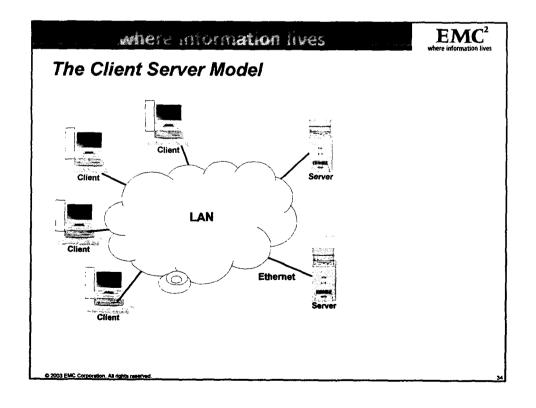


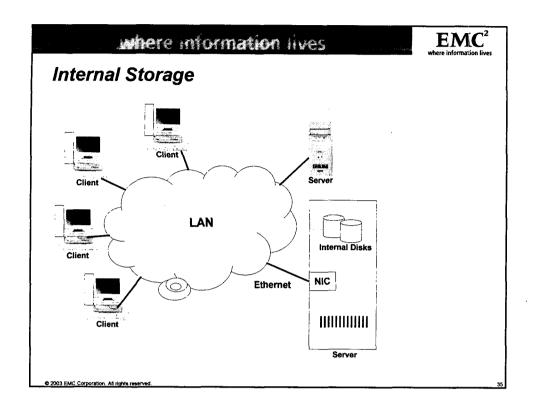


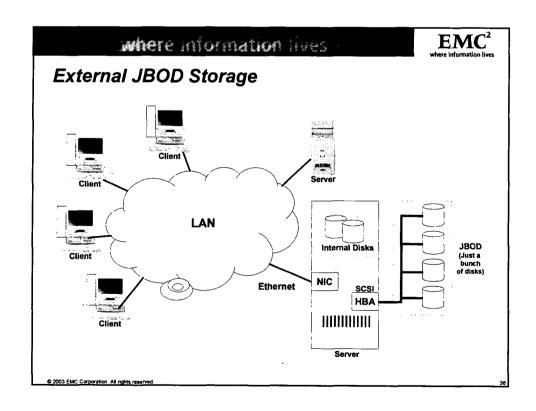


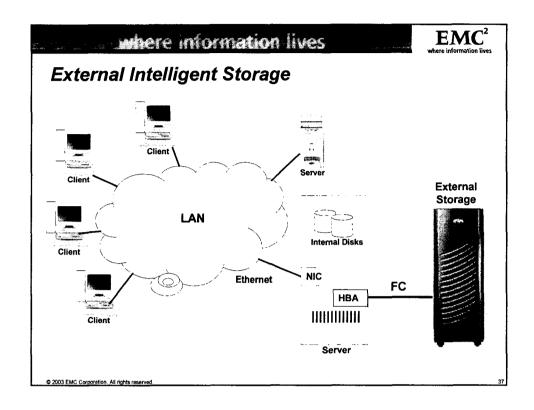
Networked Storage Technologies				
	SAN Storage Area Networks	NAS Network-Attached Storage	CAS Content Addressed Storage	
Type of Transport	Fibre Channel IP (emerging)	IP, Fibre Channel	IP	
Type of Data	Block (database)	File systems	Object, fixed content	
Key Requirement	Deterministic performance	Multi-protocol Sharing (NFS/CIFS)	Longevity, integrity assurance	
Typical Applications	OLTP, data warehousing, ERP	Software and product development, file server consolidation	Content management	

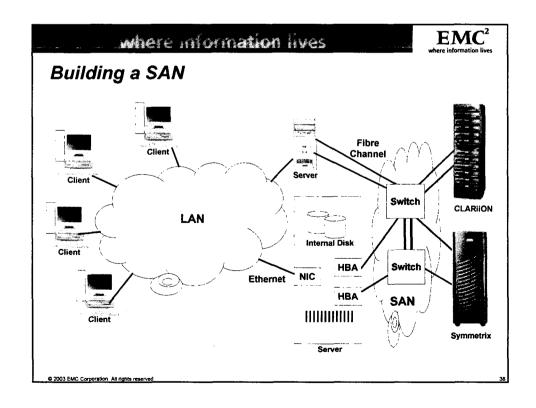


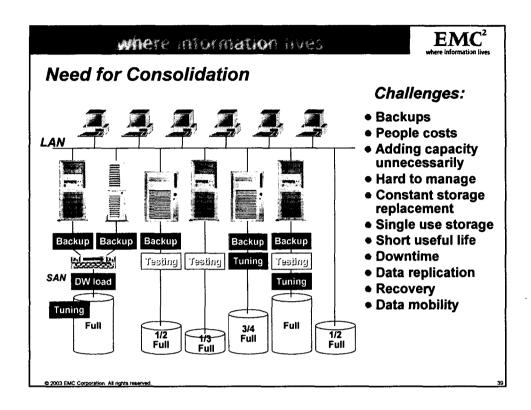


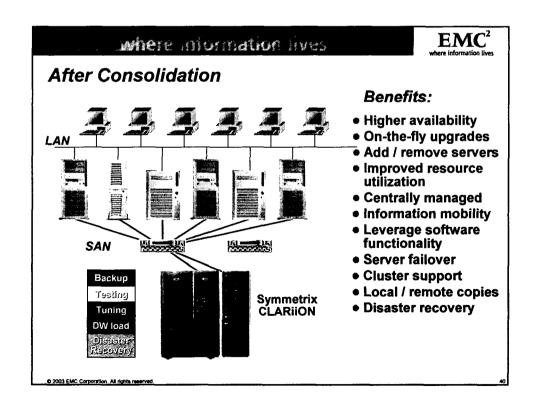


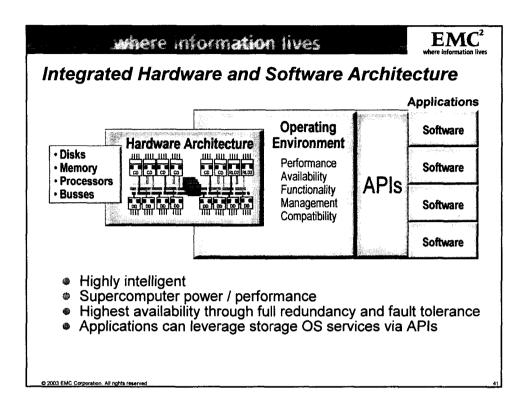


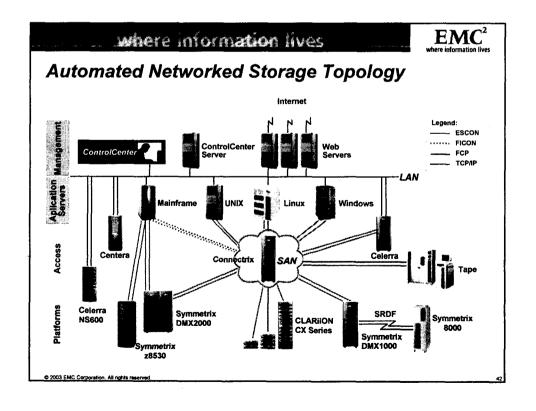


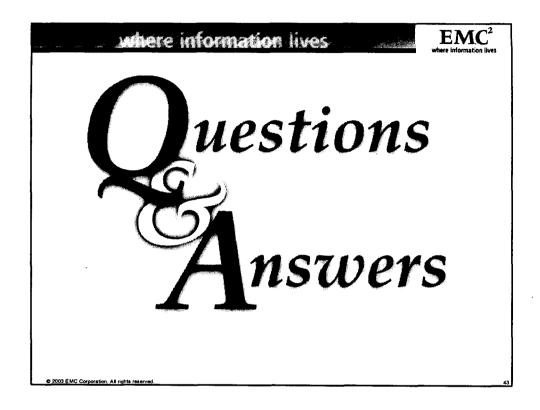












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