



SCREEN VIEWS

An illustrated overview of



This presentation provides only a small sampling of CPStorage's extensive capabilities. For more information, or to schedule a full-scale demo, e-mail info@ideasinternational.com.

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The screenshot shows the IDEAS Competitive Profiles website. At the top left is the IDEAS logo with the tagline 'COMPETITIVE PROFILES'. To the right, it says 'Licensed to: Ideas International Sydney Expires on: 12-November-2009 (in 170 days)' and a 'CONTACT US >>' button. Below the header is a blue banner with silhouettes of people. The main content area is divided into two columns. The left column has a red box for 'FULL ANALYSIS' with the text 'More products, tools and information' and a list: Servers, Storage, Service. Below that is a green box for 'QUICK COMPETE' with the text 'Rapid comparisons for major products' and a list: Servers, Storage. At the bottom left is a link for 'CP Quick Start Guide'. The right column has a 'What's New - Competitive Profiles' section with a list of updates: 30-Mar-09 - Premium Price Alerts, 30-Mar-09 - Product Watch for CPService, 30-Mar-09 - Custom Configurations in Competitive Landscape, 30-Mar-09 - Configurations in CPSystems - Improvements, 30-Mar-09 - Global Pricer Upgrade, 30-Mar-09 - Reseller and Government Sources for Enhanced Street Pricing, and 16-Mar-09 - New Customisable Email Price Alerts Functionality added to Competitive Profiles. At the bottom of the page, it says 'Copyright © 2009, Ideas International Limited. All rights reserved.' and 'TERMS & CONDITIONS | FAIR USE POLICY'.

Competitive Profiles is a daily-updated online reference source of comparative features, pricing, and performance data for a wide range of commercial IT products and services.

- » Competitive Profiles has in excess of 40,000 registered users and is the industry's premier reference source of its kind.
- » Competitive Profiles is a service that is developed, maintained, and marketed by Ideas International, a global IT research and advisory firm with offices in Australia, the United States, and the United Kingdom.
- » CPStorage is focused on the coverage of disk and tape storage products and associate software products.
- » Please read the comments that accompany the screen captures for a brief explanation of what each image represents.



CPStorage is a member of the Competitive Profiles family of IT infrastructure research services. The CPStorage home page is the launching pad to the full database of product and pricing information. In the screen capture below, the Products menu has been expanded to illustrate the typical range of manufacturer and product coverage in CPStorage.

The Tools menu provides access to a wide range of analysis tools to make full use of the extensive database of information.

Multicurrency coverage is available, providing selectable views of pricing in over 40 countries.



EMC								
Family	Products							
CLARiiON Arrays	Product	Product Type	Market Space	Host I/F Type	Drive Type	Max Drives	Max Capacity (TB)	Form Factor
	<input type="checkbox"/> EMC - CLARiiON AX150	Storage Array	Workgroup	FC	SATA	12	6	Rack (3U)
	<input type="checkbox"/> EMC - CLARiiON AX150i	Storage Array	Workgroup	iSCSI	SATA	12	6	Rack (3U)
	<input type="checkbox"/> EMC - CLARiiON CX300	Storage Array	Midrange	FC	FC, SATA	15 - 60	4.5 - 27	Rack (4U)
	<input type="checkbox"/> EMC - CLARiiON CX300i	Storage Array	Midrange	iSCSI	FC, SATA	15 - 60	4.5 - 27	Rack (4U)
	<input type="checkbox"/> EMC - CLARiiON CX3 Model 20	Storage Array	Midrange	FC	FC, FC-LC	120	59	Rack (5U)
	<input type="checkbox"/> EMC - CLARiiON CX3 Model 40	Storage Array	Midrange	FC	FC, FC-LC	240	119	Rack (5U)
	<input type="checkbox"/> EMC - CLARiiON CX3 Model 80	Storage Array	Enterprise, Midrange	FC	FC, FC-LC	480	239	Rack (9U)
DMX Family	Product	Product Type	Market Space	Host I/F Type	Drive Type	Max Drives	Max Capacity (TB)	Form Factor
	<input type="checkbox"/> EMC - Symmetrix DMX800	Storage Array	Enterprise	FICON, FC, iSCSI	FC	15 - 120	4.5 - 36	Rack (6U)
	<input type="checkbox"/> EMC - Symmetrix DMX1000	Storage Array	Mainframe, Enterprise	FICON, FC, iSCSI	FC	15 - 120	4.5 - 36	Rack (6U)

Product information can be viewed at the manufacturer, product-family, and individual-product levels.

HDS TagmaStore Product Family

Product	Product Type	Market Space	Host I/F Type	Drive Type	Max Drives	Max Capacity (TB)	Form Factor
<input type="checkbox"/> HDS - TagmaStore WMS100	Unified Storage	Midrange	FC, iSCSI, NAS	SATA	15 - 105	6 - 52.5	Desktop, Rack (4U)
<input type="checkbox"/> HDS - TagmaStore AMS200	Unified Storage	Midrange	FC, iSCSI, NAS	FC, SATA	15 - 105	4.5 - 49.5	Cabinet, Rack (4U)
<input type="checkbox"/> HDS - TagmaStore AMS500	Unified Storage	Midrange	FC, iSCSI, NAS	FC, SATA	15 - 225	4.5 - 110	Cabinet, Rack (4U)
<input type="checkbox"/> HDS - TagmaStore AMS1000	Unified Storage	Midrange	FC, iSCSI, NAS	FC, SATA	15 - 420	4.5 - 214	Rack
<input type="checkbox"/> HDS - TagmaStore NSCS5	Unified Storage	Midrange	FICON, ESCON, FC, iSCSI, NAS	FC	120 - 240	36 - 72	Floor Stand
<input type="checkbox"/> HDS - TagmaStore USP100	Unified Storage	Mainframe, Enterprise	FICON, ESCON, FC, iSCSI, NAS	FC	256	76.8	Floor Stand
<input type="checkbox"/> HDS - TagmaStore USP600	Unified Storage	Mainframe, Enterprise	FICON, ESCON, FC, iSCSI, NAS	FC	512	154	Floor Stand
<input type="checkbox"/> HDS - TagmaStore USP1500	Unified Storage	Mainframe, Enterprise	FICON, ESCON, FC, iSCSI, NAS	FC	1,152	346	Floor Stand

- Home
- Manufacturer
- Product Family
- Product**
- Full Description
- Specifications
- Quick Pricer
- Discounting
- Configurations
- Global Pricer
- Services
- Performance
- External Links
- Product Watch
- Compare Wizard
- Add to Compare

IBM - System Storage DS4800 (INTEL)



The IBM System Storage DS4800 Storage Server, announced in May 2005, is a high-end storage server designed to handle support for a wide range of SAN applications for mission critical enterprise networks. The DS4800 delivers double the performance of the previous DS4500 system and also features 4Gbps FC connectivity, unlike previous versions. Currently, the DS4800 features four models, Models 80, 82, 84 and Model 88.

TECHNICAL DESCRIPTION

The DS4800 Model 80 features a 4U rack mountable enclosure that contains dual-active RAID controllers with eight 4 Gbps FC host ports and eight 4 Gbps FC drive ports (for connection directly to host servers, SAN fabric and expansion units), eight 4Gbps SFP GBIC transceivers, 4GB cache (2GB per controller) with eight storage partitions enabled, dual power supplies, redundant cooling, rack mounting rails, power cords and documentation. Up to 224 disk drive modules supported in base offering.

The DS4800 Model 82 is a 4U rack mountable enclosure that contains dual RAID controllers with eight 4Gbps SFP GBIC transceivers, 4GB cache (2GB per controller) with eight storage partitions enabled, dual power supplies, redundant cooling, rack mounting rails, power cords and documentation. Up to 224 disk drive modules supported in base offering.

The DS4800 Model 84 is a 4U rack mountable enclosure that contains dual RAID controllers with eight 4Gbps SFP GBIC transceivers, 8GB cache (4GB per controller) with eight storage

Typical Competing Products

- Dell | EMC - CX3-40 Disk Array
 - EMC - CLARiiON CX3 Model 40
 - HDS - TagmaStore AMS500
 - HP - StorageWorks Enterprise Virtual Array E
 - NetApp - FAS3050 System
 - Sun - StorageTek 6900 Series Model 6920
- [Add to comparison](#) [Replace comparison](#)

Summary Specifications

Manufacturer	Engenio (LSI)
Product Type	Storage Array
Form Factor	Rack
Market Space	Enterprise
Announced	10-May-05
Available	17-Jun-05

IBM - System Storage DS4800 (INTEL) Quick Pricer

[Download this data](#)

Discount Percent: 0 % [Set Discount](#) [Advanced Discount](#) [Clear Discount](#)

[Product Watch](#)

Type	Part Code	Description	Manuf Price (USD)	Manuf Price Date
Base Unit	181580H	DS4800 Storage Server Model 80H (INTEL) includes 4GB cache, 8 storage partitions, Windows Host Kit (includes 4 Gbps FC connectivity directly to host servers, SAN fabric and expansion unit)	54,250	6-Oct-06
Base Unit	181582H	DS4800 Storage Server Model 82H (INTEL) includes 4GB cache, 8 storage partitions, Windows Host Kit	65,245	6-Oct-06
Base Unit	181584H	DS4800 Storage Server Model 84H (INTEL) includes 8GB cache, 8 storage partitions, Windows Host Kit	79,313	6-Oct-06
Base Unit	181588H	DS4800 Storage Server Model 88H (INTEL) includes 16GB cache, 8 storage partitions, Windows Host Kit	119,250	6-Oct-06
Base Unit	2284670	DS4800 Storage Server - Upgrade from 8 to 16 storage partitions	8,400	6-Oct-06
Base Unit	2284671	DS4800 Storage Server - Upgrade from 8 to 64 storage partitions	26,250	6-Oct-06
Base Unit	2284259	DS4800 Storage Server - Upgrade from 16 to 64 storage partitions	21,250	6-Oct-06
Base Unit	181281H	IBM DS4400 EXP810 Storage Expansion Unit (For INTEL Servers)	6,000	6-Oct-06
Memory	2284239	DS4800 Storage Server Model 82 - Upgrade to 8GB cache	50,000	6-Oct-06
Memory	39M5884	DS4800 Storage Server Model 82 - Upgrade to 16GB cache	98,500	6-Oct-06
Memory	39M5885	DS4800 Storage Server Model 84 - Upgrade to 16GB cache	98,500	6-Oct-06
Peripherals	39M4323	IBM DS4800 4-Chan SFP Transceiver (40Gbps)	208	6-Oct-06

At the individual product profile level, key information is provided at a glance, along with a menu to additional product information, pricing, and analysis options.



IBM - System Storage DS8000 Series Quick Pricer [Download this data](#)

Discount Percent: %

Your Options Here

Type	Part Code	Description	Manuf Price (USD)	Manuf Price Date
Base Unit	2107-921	IBM System Storage DS8100 - Model 921 dual two-way processor, up to 128GB memory, up to 16 ESCON or Fibre Channel/FICON adapters and up to 128 disk drives reaching a maximum capacity of 38.4TB (128 x 300GB)	95,000	3-Oct-06
Base Unit	2107-922	IBM System Storage DS8300 - Model 922 dual four-way processor, up to 256GB memory, up to 16 ESCON or Fibre Channel/FICON adapters and up to 128 disk drives reaching a maximum capacity of 38.4TB (128 x 300GB)	190,000	3-Oct-06
Base Unit	2107-9A2	IBM System Storage DS8300 - Model 9A2 dual four-way processor, up to 256GB memory, up to 16 ESCON or Fibre Channel/FICON adapters, up to 128 disk drives reaching a maximum capacity of 38.4TB (128 x 300GB) and supports the use of two Storage System LPARs (Logical Partitions)	190,000	3-Oct-06
Base Unit	2107-9AE	IBM System Storage DS8000 - Model 9AE Expansion Unit (for Model 9A2 & 9B2)	75,000	3-Oct-06
Base Unit	2107-92E	IBM System Storage DS8000 - Model 92E Expansion Unit (for Models 921, 922, 931 & 932)	75,000	3-Oct-06
Memory	2107-4001	IBM System Storage DS8000 Model 921 - 16GB processor memory	30,000	3-Oct-06
Memory	2107-4002	IBM System Storage DS8000 Model 921 - 32GB processor memory	50,000	3-Oct-06
Memory	2107-4003	IBM System Storage DS8000 Model 921 - 64GB processor memory	200,000	3-Oct-06
Memory	2107-4004	IBM System Storage		
Memory	2107-4102	IBM System Storage		
Memory	2107-4103	IBM System Storage		
Memory	2107-4104	IBM System Storage		
Memory	2107-4105	IBM System Storage		
Peripherals	2107-1100	IBM System Storage		

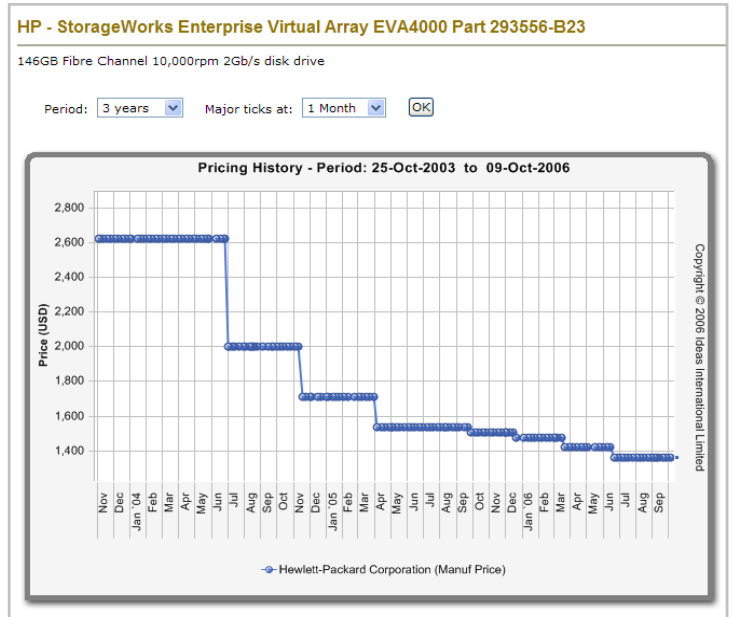
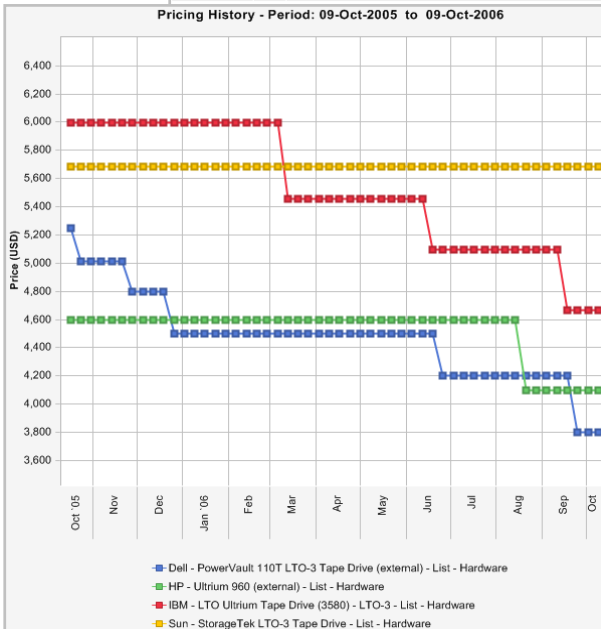
IBM - DS8100 - 32 x 146GB (4.7TB Raw)

PartID	Qty	Description	Unit Price (USD)	Ext Price (USD)
2107-921	1	IBM System Storage DS8100 - Model 921 dual two-way processor, up to 128GB memory, up to 16 ESCON or Fibre Channel/FICON adapters and up to 128 disk drives reaching a maximum capacity of 38.4TB (128 x 300GB)	95,000	95,000
2107-1210	1	IBM System Storage DS8000 - Disk Enclosure Pair	10,000	10,000
2107-2116	2	IBM System Storage DS8000 - 146GB 10,000rpm Drive Set	31,000	62,000
2107-4001	1	IBM System Storage DS8000 Model 921 - 16GB processor memory	30,000	30,000
2107-1050	2	IBM System Storage DS8000 - Battery Assembly	1,700	3,400
2107-1055	1	IBM System Storage DS8000 - Extended PLD (provides extended protection from a power line disturbance (PLD))	7,800	7,800
2107-1100	1	IBM System Storage DS8000 - Management Console Internal	10,000	10,000
2107-1300	2	IBM System Storage DS8000 - I/O Enclosure Pair	12,500	25,000
2107-3011	1	IBM System Storage DS8000 - Device Adapter Pair	10,000	10,000
2107-3111	2	IBM System Storage DS8000 - 2Gb 4-Port Short Wave FCP/FICON Adapter	20,500	41,000
2107-1211	1	IBM System Storage DS8000 - Disk Drive cable group 1	1,000	1,000
2107-1312	1	IBM System Storage DS8000 - RIO-G cable group 2	1,200	1,200
2244-7002	1	IBM System Storage DS8000 - Operating Environment License (OEL) - 5TB	27,250	27,250
		5TB (PTC) - 5TB	55,250	55,250

List Price (USD): 378,900
Typical Street Price (USD): 298,990

CPStorage provides detailed pricing information at both the part and configuration levels.

Pricing coverage includes list price and street price.

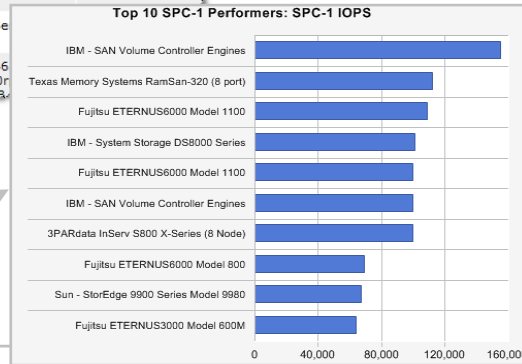


FEATURE AND PERFORMANCE COMPARISONS



Comparison: Untitled Last Updated: 9-Oct-06 11:56 AM		View: <input type="radio"/> Summary <input checked="" type="radio"/> Detail <input type="radio"/> Performance		Action: <input type="button" value="Select"/> <input type="button" value="Spreadsheet"/>		
<input type="button" value="Add >>"/>		Load: <input type="button" value="Select..."/>		Save: <input type="button" value="Save"/>		
<input type="button" value="Remove >>"/>		Delete: <input type="button" value="Select..."/>				
	EMC - CLARiiON CX300	Dell EMC - CX300 Disk Array	HDS - TaqmaStore AMS200	HP - StorageWorks Enterprise Virtual Array EVA4000	IBM - System Storage DS4300 Turbo (UNIX)	NetApp - FAS270A System
Manufacturer	EMC	EMC	HDS	HP	Engenio (LSI)	Network Appliance
Product Type	Storage Array	Storage Array	Unified Storage	Storage Array	Storage Array	Unified Storage
Form Factor	Rack	Rack	Cabinet, Rack	Cabinet, Rack	Rack	Rack
Market Space	Midrange	Midrange	Midrange	Midrange	Midrange	Midrange
Announced	09-Feb-04	09-Feb-04	11-Jul-05	09-May-05	08-Apr-03	23-Sep-03
Available	09-Feb-04	09-Feb-04	11-Jul-05	09-May-05	15-Apr-03	01-Nov-03
NAS Type			Dedicated NAS			Dedicated NAS
Storage Enclosure	Max Drives: 15 Max Capacity (raw): 4.5 TB	Max Drives: 15 Max Capacity (raw): 4.8 TB	Max Drives: 15 Max Capacity (raw): 4.5 TB	Max Drives: 14 Max Capacity (raw): 4.2 TB	Max Drives: 14 Max Capacity (raw): 4.2 TB	Max Drives: 14 Max Capacity (raw): 4.2 TB
Storage Subsystem	Max Drives: 60 Max Capacity (raw): 27.0 TB	Max Drives: 60 Max Capacity (raw): 27.0 TB	Max Drives: 105 Max Capacity (raw): 49.5 TB	Max Drives: 56 Max Capacity (raw): 28.0 TB	Max Drives: 112 Max Capacity (raw): 33.6 TB	Max Drives: 56 Max Capacity (raw): 27.0 TB
Drive Enclosure Interface	2Gb/s FC-AL, Serial ATA	2Gb/s FC-AL, Serial ATA	2Gb/s FC, Serial ATA	2Gb/s FC	2Gb/s FC-AL, Serial ATA	2Gb/s FC-AL, Serial ATA
Drives Supported	FC: 73GB, 146GB, 300GB - 15,000rpm	FC: 36GB, 73GB - 15,000rpm	FC: 73GB, 146GB, 300GB - 10,000rpm	FC: 146GB, 300GB - 10,000rpm; 72GB, 146GB - 15,000rpm	FC: 73.4GB, 146.8GB - 10,000rpm	FC: 73.4GB, 146.8GB - 10,000rpm

A fundamental feature of Competitive Profiles is the ability to create side-by-side comparisons. Options are provided to automate the creation of comparisons, to create comparisons through user-defined selections, or to simply add products to an existing comparison.



Benchmark Wizard [Download this data](#) [Show Chart](#)

The Benchmark Wizard lets you work with detailed information on performance benchmarks. You can view, sort or export data in spreadsheet format.

Show: Only current Benchmark types
Benchmark: SPC-1
View: Summary

Page Size: 100
Sort By: SPC-1 IOPS asc desc
Then By: \$/IOPS asc desc

SPC-1 (Storage subsystem performance) [About SPC-1](#)

Product	Date	SPC-1 IOPS	ASU Capacity (GB)	\$/IOPS	Data Protection	Total Cost	Details	Version	Status
IBM - SAN Volume Controller Engines	25-Oct-05	155,519	12,216.80	12.76	Mirroring	1,983,785	More Info...	1.9	Current
Texas Memory Systems RamSan-320 (8 port)	5-Apr-04	112,491	68.72	1.50	Mirroring	168,776	More Info...	1.8	Current
Fujitsu ETERNUS6000 Model 1100	27-Feb-06	108,745	11,377.37	12.21	Mirroring	1,327,787	More Info...	1.10	Current
IBM - System Storage DS8000 Series	27-Oct-05	101,102	6,755.60	21.61	Mirroring	2,185,472	More Info...	1.9	Current
Fujitsu ETERNUS6000 Model 1100	20-Oct-04	100,242	11,377.37	13.39	Mirroring	1,342,738	More Info...	1.8	Current
IBM - SAN Volume Controller Engines	3-Dec-04	100,129	7,200.00	12.50	Mirroring	1,251,985	More Info...	1.8	Current
3PARdata InServ S800 X-Series (8 Node)	8-Mar-04	100,046	16,468.67	14.81	Mirroring	1,482,977	More Info...	1.8	Current
Fujitsu ETERNUS6000 Model 800	4-Mar-04	69,242	7,967.08	13.56	Mirroring	939,183	More Info...	1.8	Current
Fujitsu ETERNUS3000 Model 600M	9-Aug-03	64,250	15,609.00	13.86	Mirroring	890,497	More Info...	1.7	Current
Fujitsu ETERNUS4000 Model 500	25-Aug-06	60,004	6,820.18	6.54	Mirroring	392,174	More Info...	1.10	Current
DataCore SANsymphony Network Edition	8-Aug-03	50,004	1,407.00	6.11	Mirroring	305,608	More Info...	1.7	Current
Sun - StorageTek 6900 Series Model 6920	16-Aug-04	48,647	3,022.00	10.73	Mirroring	522,087	More Info...	1.8	Current

The Benchmark Wizard provides access to the Competitive Profiles database of benchmark results. You can customize the display with a range of sort options and export the data for further analysis.

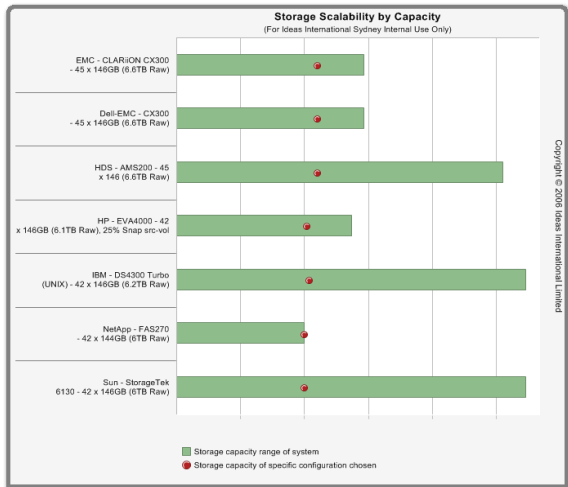


CPStorage provides the ability to create configuration-level product comparisons with an automated selection of typical competitors, and the ability to add user-selected products to the comparison. Configuration comparison options include total capacity and storage-device type.

Competitive Landscape Analysis - Match On Storage Capacity

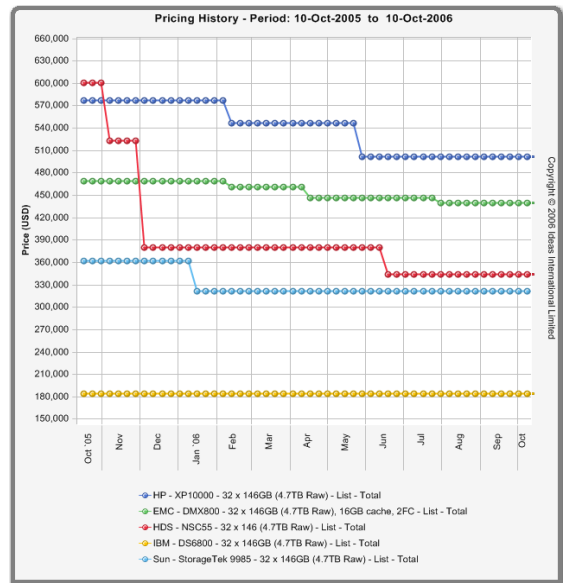
Pricing Summary

Configuration		List Price (USD)	Typical Street Price (USD)
EMC - CLARiion CX300 - 45 x 146GB (6.6TB Raw)	Config Detail...	89,250	75,746
Dell-EMC - CX300 - 45 x 146GB (6.6TB Raw)	Config Detail...	100,407	97,395
HDS - AMS200 - 45 x 146 (6.6TB Raw)	Config Detail...	95,500	76,400
HP - EVA4000 - 42 x 146GB (6.1TB Raw), 25% Snap src-vol	Config Detail...	131,070	94,711
IBM - DS4300 Turbo (UNIX) - 42 x 146GB (6.2TB Raw)	Config Detail...	167,020	128,605
NetApp - FAS270 - 42 x 144GB (6TB Raw)	Config Detail...	98,220	83,487
Sun - StorageTek 6130 - 42 x 146GB (6TB Raw)	Config Detail...	135,980	108,784



A scalability chart compares the scalability ranges of the selected systems and marks the positioning of the chosen configurations.

Configuration price history analysis is provided, with charting options for list and street price, and hardware and software combinations.



Price Types:

- List - Total
- List - Hardware
- List - Software
- Street - Total
- Street - Hardware
- Street - Software

Period: 1 year

Major ticks at: 1 Month

Redraw Chart

