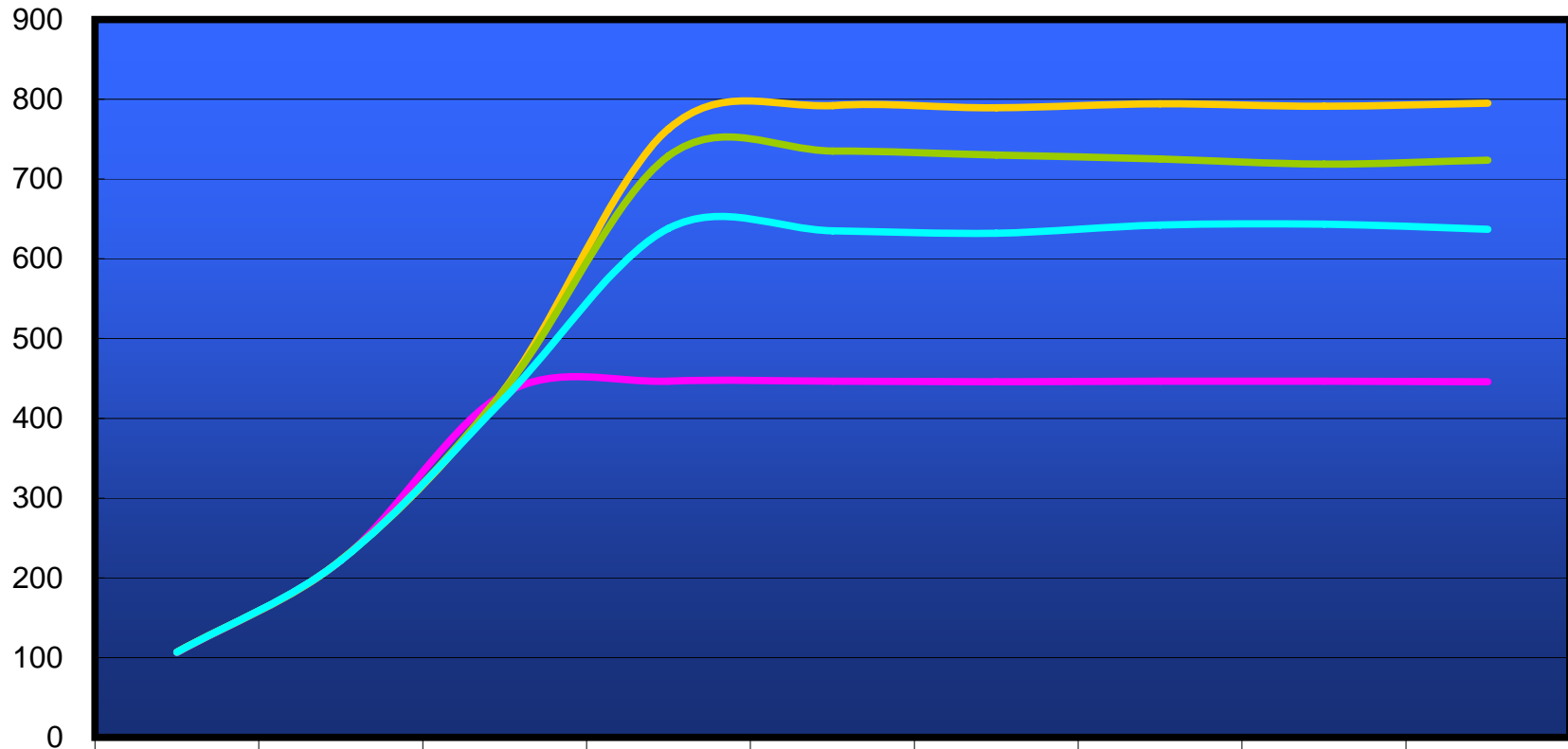


Sequential Read Strip size 64KB

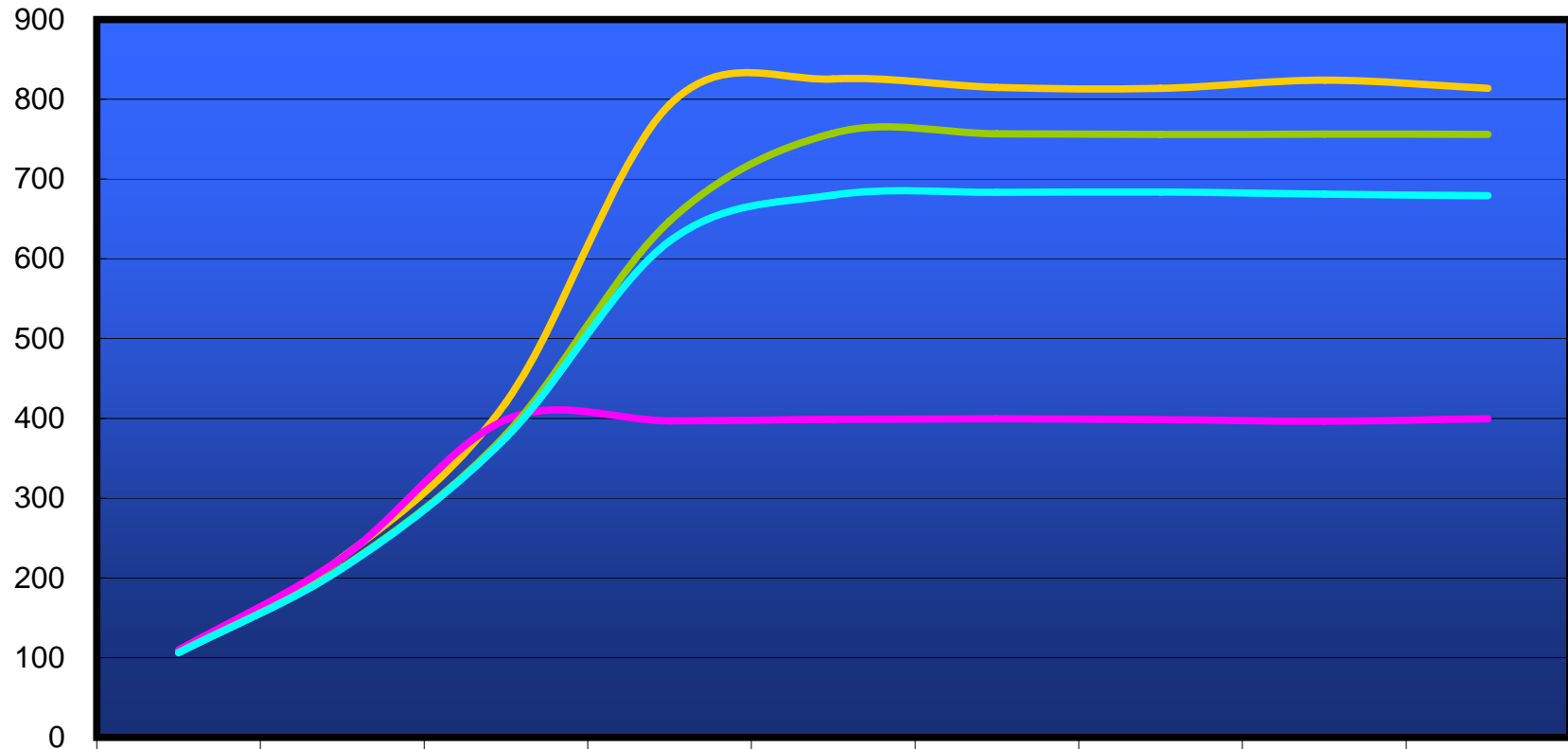
MBps



	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
— RAID 0	106.68	222.51	436.67	762.89	791.94	789.58	794.47	791.17	795.18
— RAID 1	106.39	221.90	431.28	446.55	446.57	445.65	446.51	446.55	445.87
— RAID 5	106.85	222.17	436.06	729.15	734.95	730.14	725.08	718.75	723.59
— RAID 6	106.72	221.89	425.34	638.12	635.18	631.92	642.34	643.45	636.87

Sequential Write Strip size 64KB

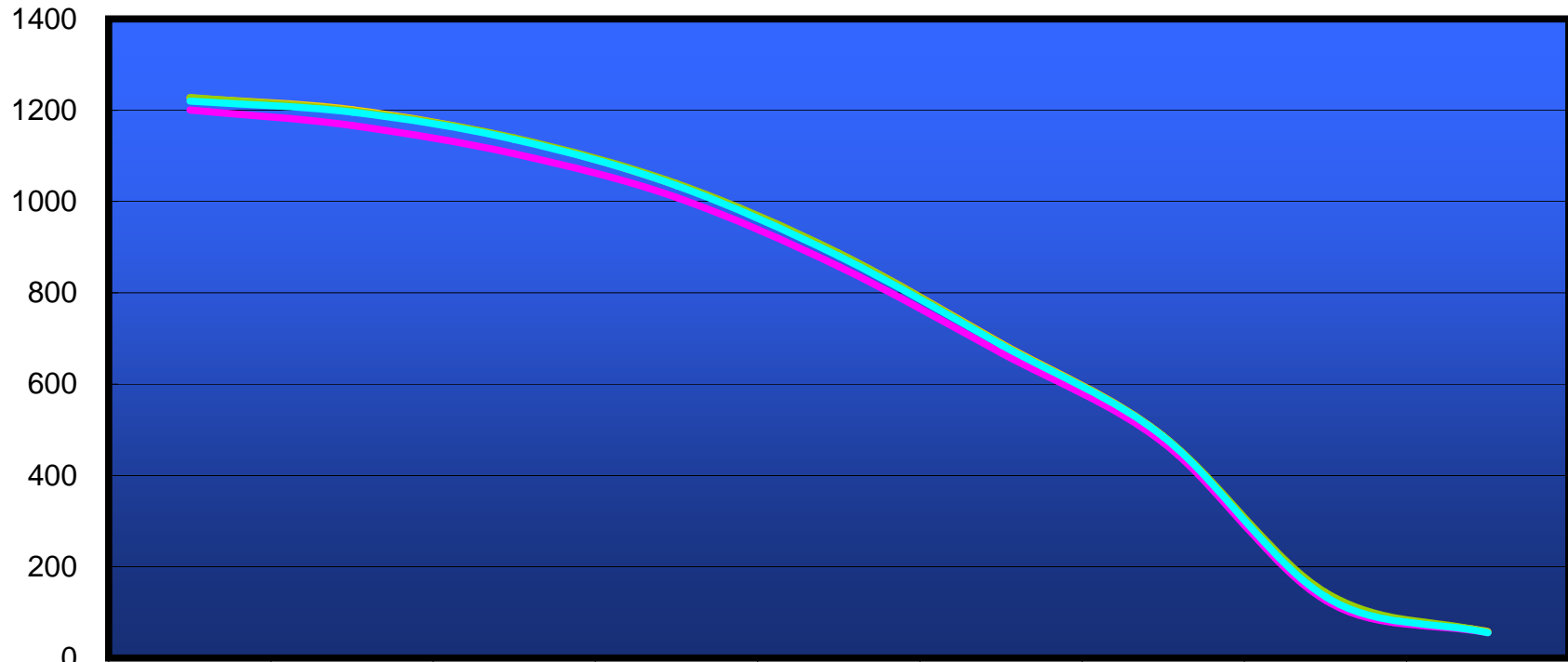
MBps



	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
— RAID 0	108.75	225.63	420.04	793.19	825.53	814.80	813.84	823.91	813.78
— RAID 1	109.44	225.27	398.39	396.81	398.56	399.55	398.28	396.31	399.29
— RAID 5	106.56	213.28	379.61	647.23	757.66	756.62	755.80	756.33	756.10
— RAID 6	106.05	212.19	376.05	622.29	679.94	683.21	683.57	680.96	679.26

Random Read Strip size 64KB

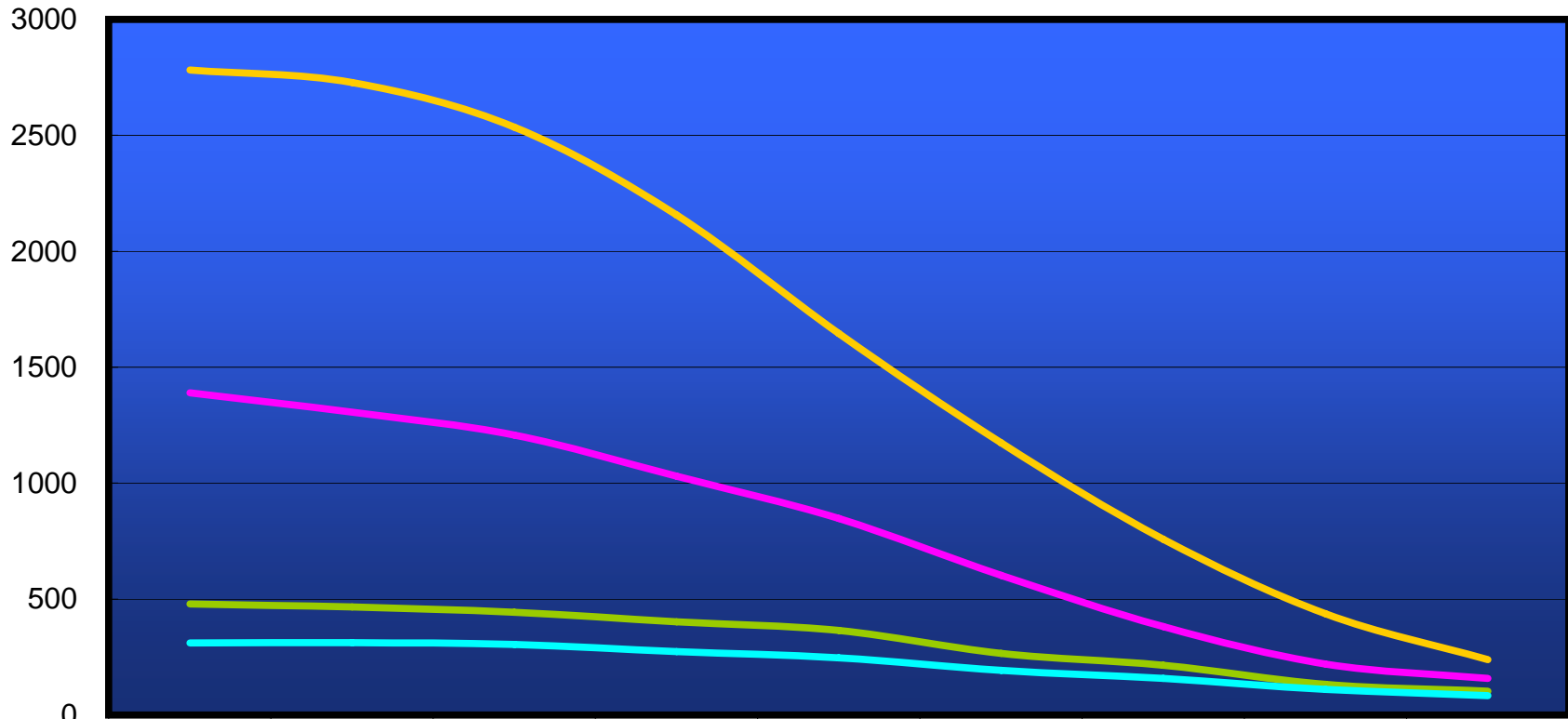
I/Ops



	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
RAID 0	1227.14	1200.83	1137.95	1035.61	886.14	689.33	485.52	131.74	58.16
RAID 1	1200.23	1166.82	1104.56	1009.06	857.77	668.58	471.35	126.68	55.32
RAID 5	1227.54	1198.41	1139.08	1039.14	887.02	687.41	485.78	143.43	56.07
RAID 6	1219.87	1195.79	1135.95	1034.72	880.30	685.79	484.46	134.59	55.40

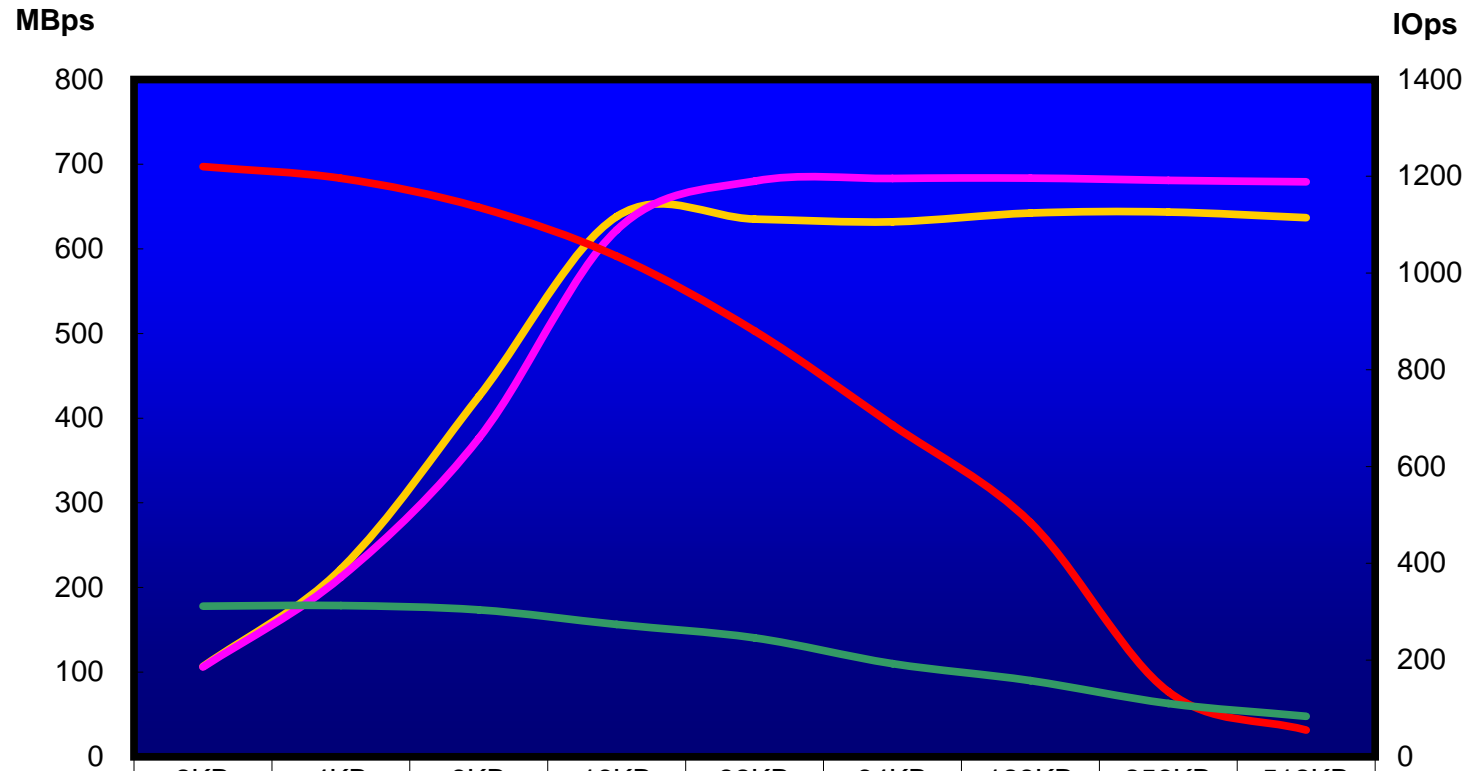
Random Write Strip size 64KB

I/Ops



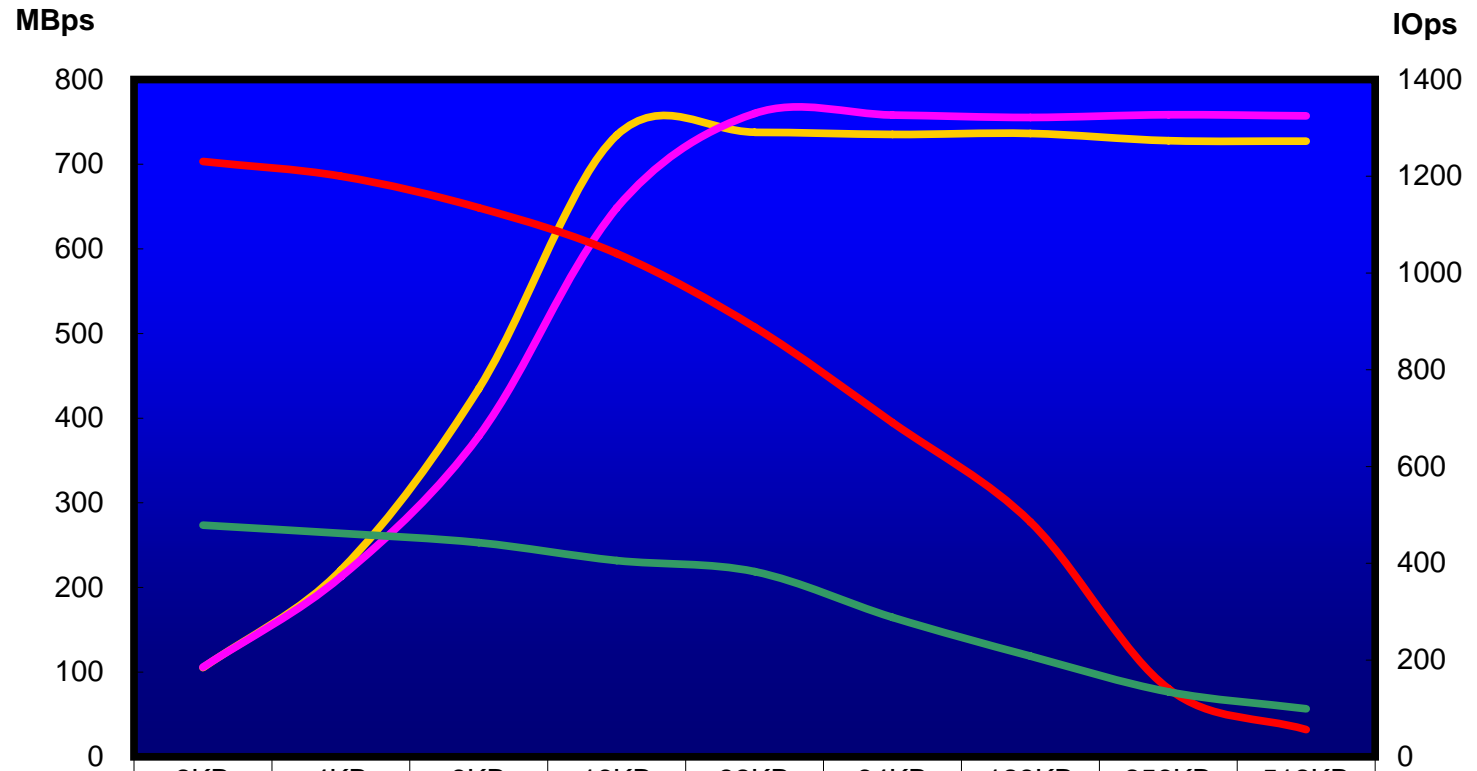
	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
RAID 0	2781.36	2728.05	2535.11	2156.68	1645.21	1173.30	757.90	436.76	239.24
RAID 1	1389.45	1306.63	1207.26	1029.96	847.71	602.94	381.34	219.01	157.81
RAID 5	478.97	466.70	443.09	401.89	364.31	265.81	214.44	132.02	102.12
RAID 6	311.40	312.54	303.77	273.74	246.01	192.57	157.60	110.32	83.61

RAID 6 Strip Size 64KB



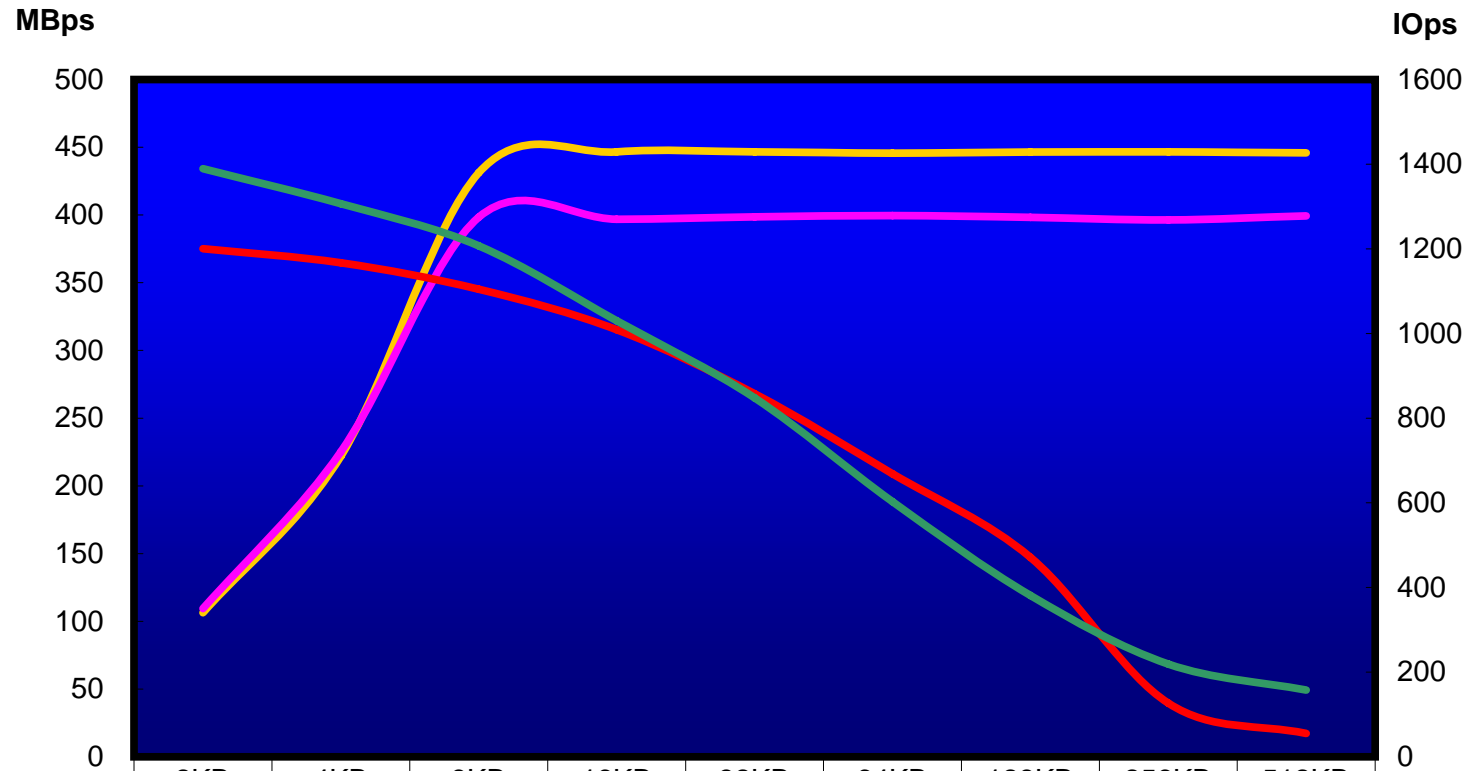
	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
Sequential Read MBps	106.72	221.89	425.34	638.12	635.18	631.92	642.34	643.45	636.87
Sequential Write MBps	106.05	212.19	376.05	622.29	679.94	683.21	683.57	680.96	679.26
Random Read I/Ops	1219.87	1195.79	1135.95	1034.72	880.30	685.79	484.46	134.59	55.40
Random Write I/Ops	311.40	312.54	303.77	273.74	246.01	192.57	157.60	110.32	83.61

RAID 5 Strip Size 64KB



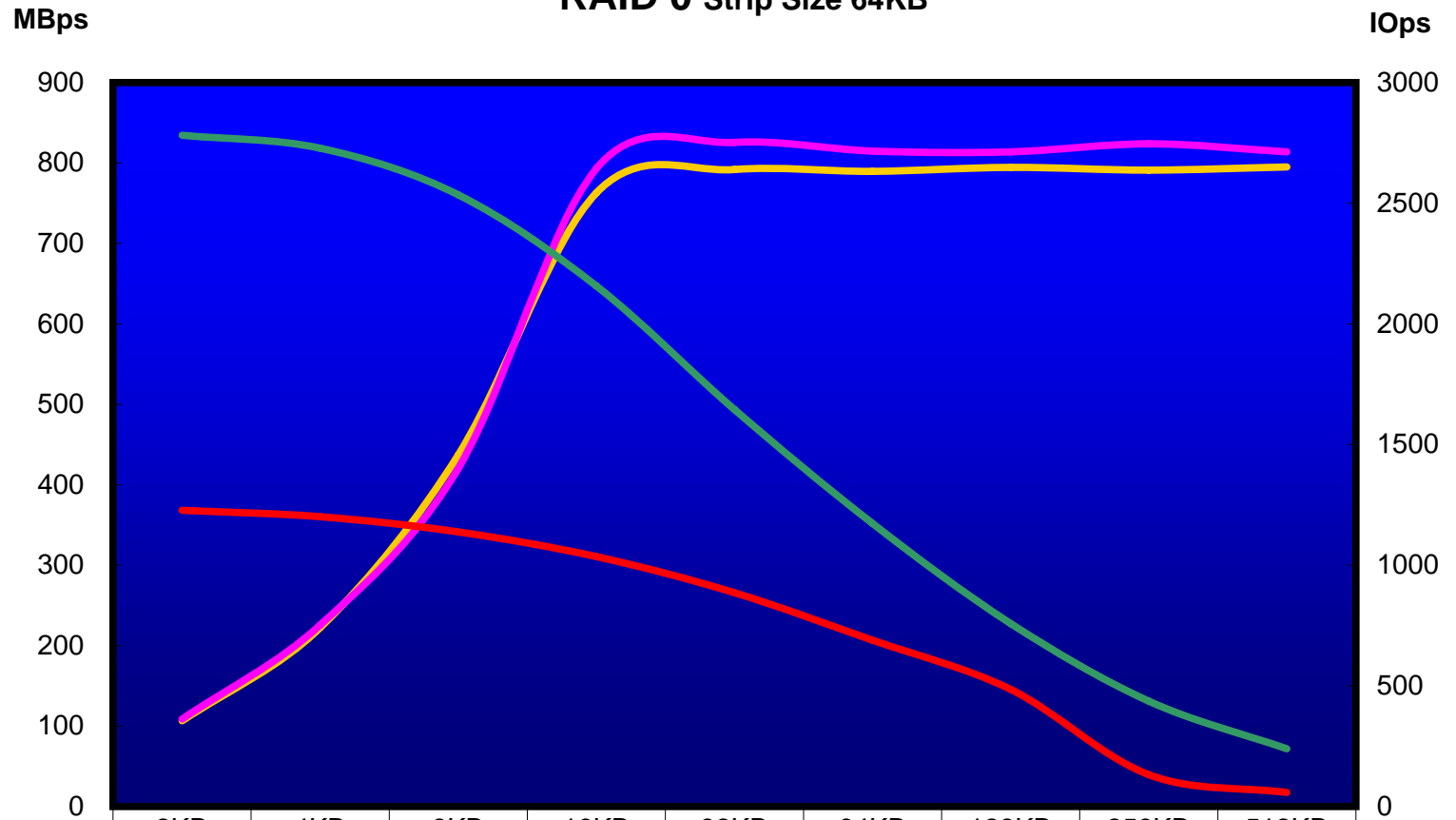
	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
Sequential Read MBps	105.38	220.40	434.63	734.14	737.62	735.05	736.33	727.78	727.16
Sequential Write MBps	105.89	212.77	378.66	648.43	759.85	758.08	755.23	758.45	757.10
Random Read IOps	1230.67	1200.12	1135.12	1040.16	887.95	690.91	485.54	140.87	56.38
Random Write IOps	478.92	461.81	442.69	405.73	382.99	288.35	208.07	134.36	99.15

RAID 1 Strip Size 64KB



	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
Sequential Read MBps	106.39	221.90	431.28	446.55	446.57	445.65	446.51	446.55	445.87
Sequential Write MBps	109.44	225.27	398.39	396.81	398.56	399.55	398.28	396.31	399.29
Random Read IOps	1200.23	1166.82	1104.56	1009.06	857.77	668.58	471.35	126.68	55.32
Random Write IOps	1389.45	1306.63	1207.26	1029.96	847.71	602.94	381.34	219.01	157.81

RAID 0 Strip Size 64KB



	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
Sequential Read MBps	106.68	222.51	436.67	762.89	791.94	789.58	794.47	791.17	795.18
Sequential Write MBps	108.75	225.63	420.04	793.19	825.53	814.80	813.84	823.91	813.78
Random Read IOps	1227.14	1200.83	1137.95	1035.61	886.14	689.33	485.52	131.74	58.16
Random Write IOps	2781.36	2728.05	2535.11	2156.68	1645.21	1173.30	757.90	436.76	239.24

Test Environment

Model	ARC-1280	Date	2007/7/26
Firmware Ver.	V1.43 2007/04/17		
BIOS Ver.	V1.17f 2007/04/11	PCB Ver.	B

MotherBoard	Intel SE7520AF2	BIOS	AMI P.05.00.0059
CPU	2x Xeon 2.8GHz	Memory	8GB

OS Platform : Windows 2003 Professional Enterprise SP1

IO Meter Settings

of Outstanding I/Os 16 per Target

Burst Length : 16 I/Os

Run Time : 1 Min.

Ramp up time : 10 Sec

Volume Size : 10 GB

Ch #	Vendor	Model Name	Firmware	Capacity
1	WD	WD5000ABYS-01TNA0	11.02N11	500GB
2	WD	WD5000ABYS-01TNA0	11.02N11	500GB
3	WD	WD5000ABYS-01TNA0	11.02N11	500GB
4	WD	WD5000ABYS-01TNA0	11.02N11	500GB
5	WD	WD5000ABYS-01TNA0	11.02N11	500GB
6	WD	WD5000ABYS-01TNA0	11.02N11	500GB
7	WD	WD5000ABYS-01TNA0	11.02N11	500GB
8	WD	WD5000ABYS-01TNA0	11.02N11	500GB
9	Seagate	ST3250620NS	3.AEE	250GB
10	Seagate	ST3250620NS	3.AEE	250GB
11	Seagate	ST3250620NS	3.AEE	250GB
12	Seagate	ST3250620NS	3.AEE	250GB