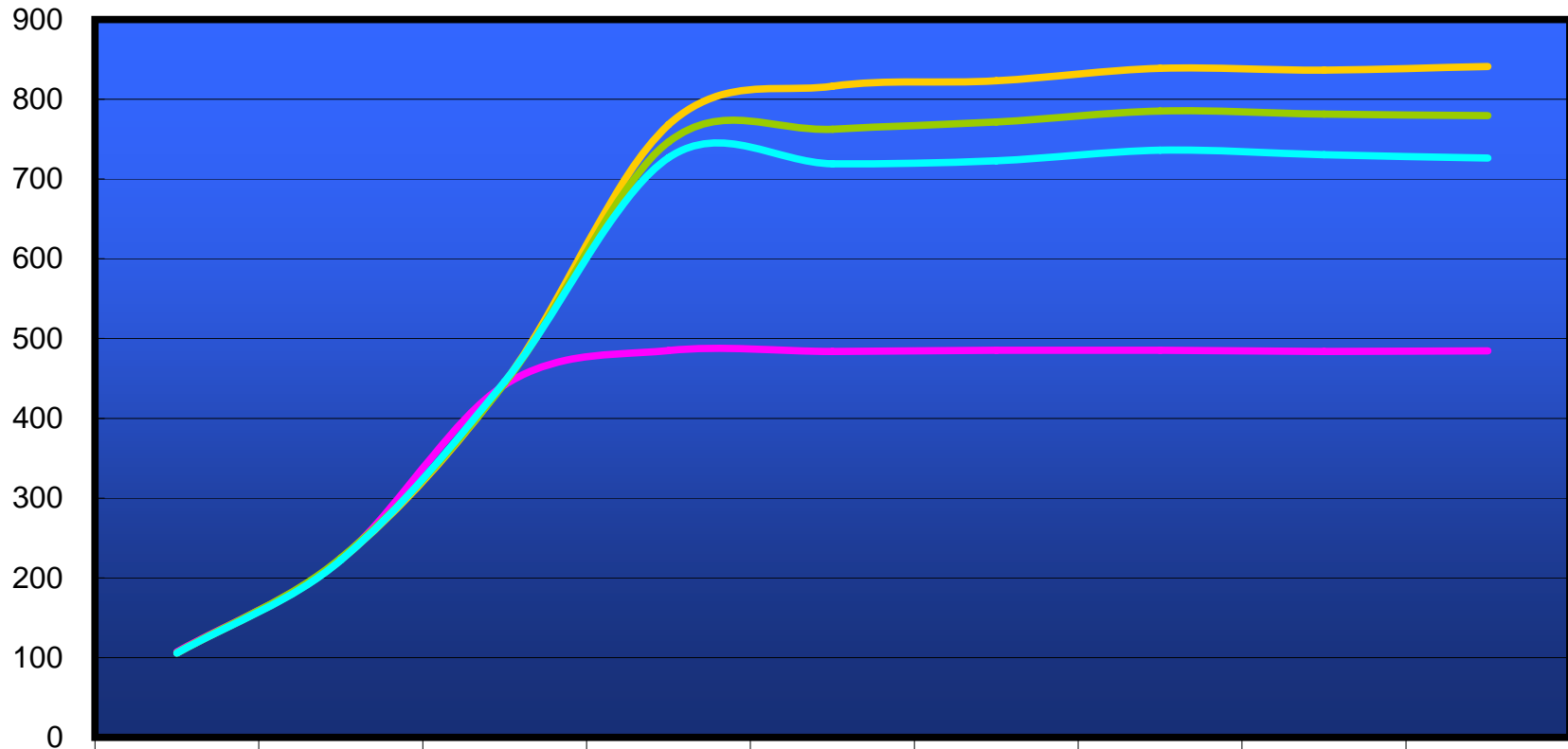


Sequential Read Strip size 64KB

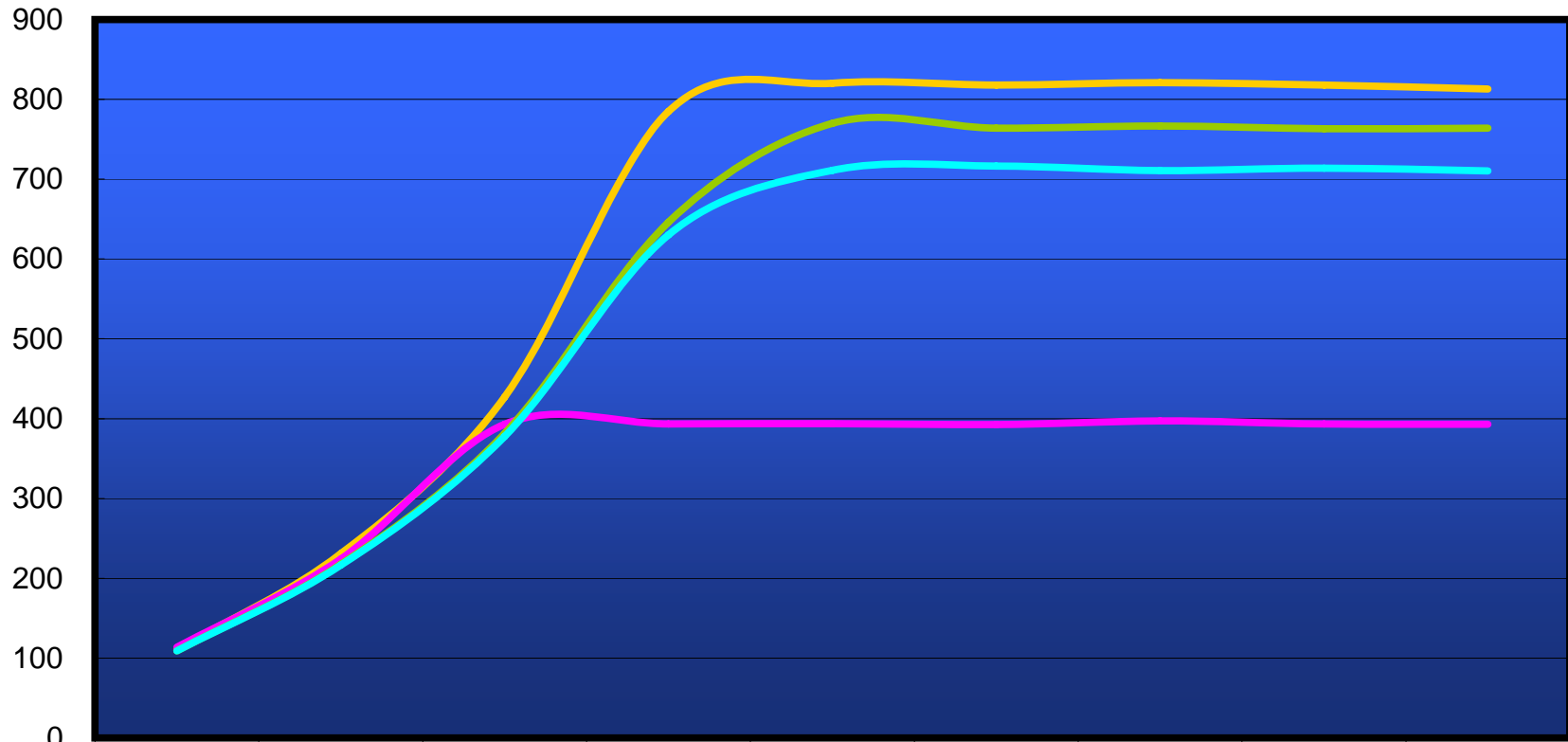
MBps



	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
RAID 0	105.49219	222.53351	444.92179	767.92906	816.30836	823.4011	838.81148	836.52743	841.10824
RAID 1	107.20085	223.6872	442.17319	484.89007	484.01173	485.37115	485.19415	483.87071	484.62154
RAID 5	105.98086	225.10982	443.98652	746.37372	762.5663	771.58195	785.18391	781.56327	779.53766
RAID 6	105.49457	222.5017	446.19104	726.60785	719.18113	722.8906	736.01222	730.61408	726.40963

Sequential Write Strip size 64KB

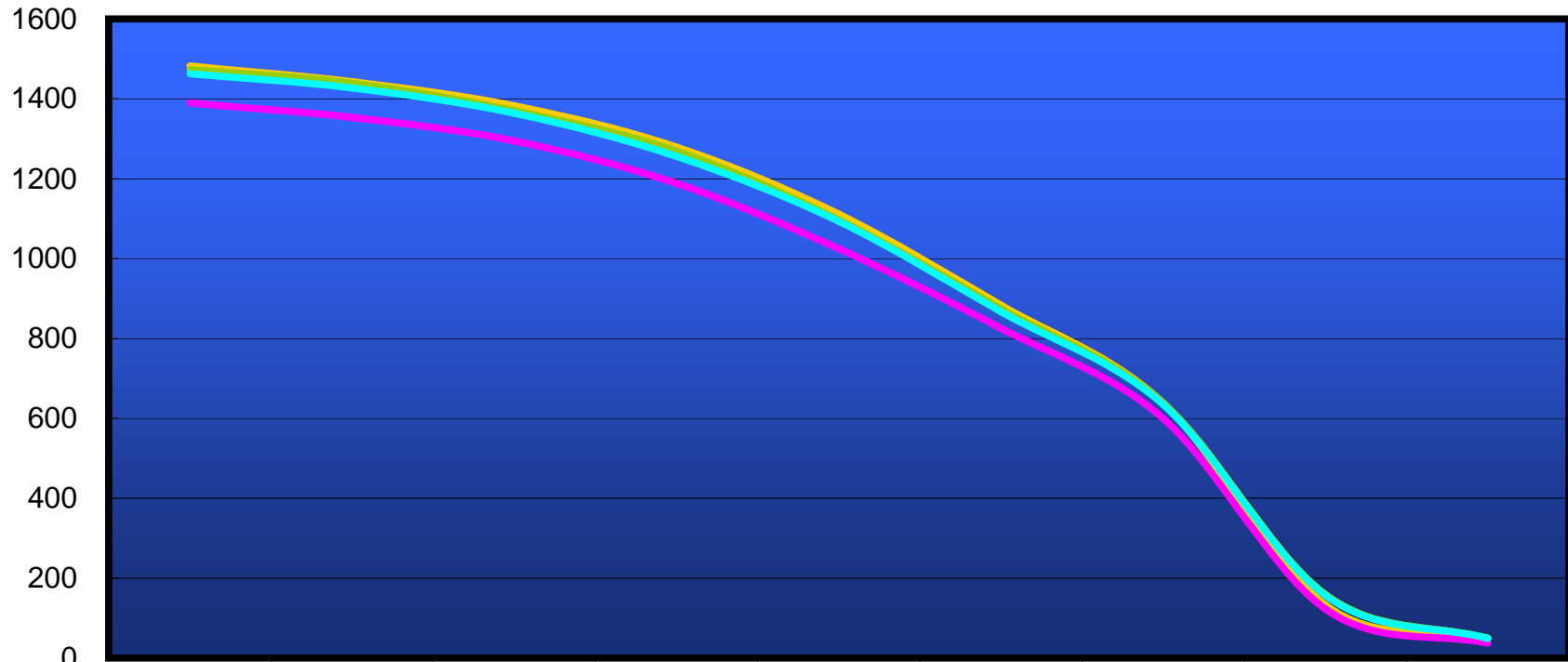
MBps



	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
RAID 0	111.49998	231.15636	427.3002	784.77908	820.1676	817.91498	821.04318	817.98094	812.89538
RAID 1	113.45725	224.22721	393.02692	393.41951	393.56241	392.54615	397.13422	393.38365	392.85782
RAID 5	109.12361	217.93368	381.54065	646.22975	770.15588	763.98135	766.4824	763.25051	763.84401
RAID 6	109.15101	216.51089	377.97246	630.17948	711.21358	716.38234	710.57108	713.87711	710.48488

Random Read Strip size 64KB

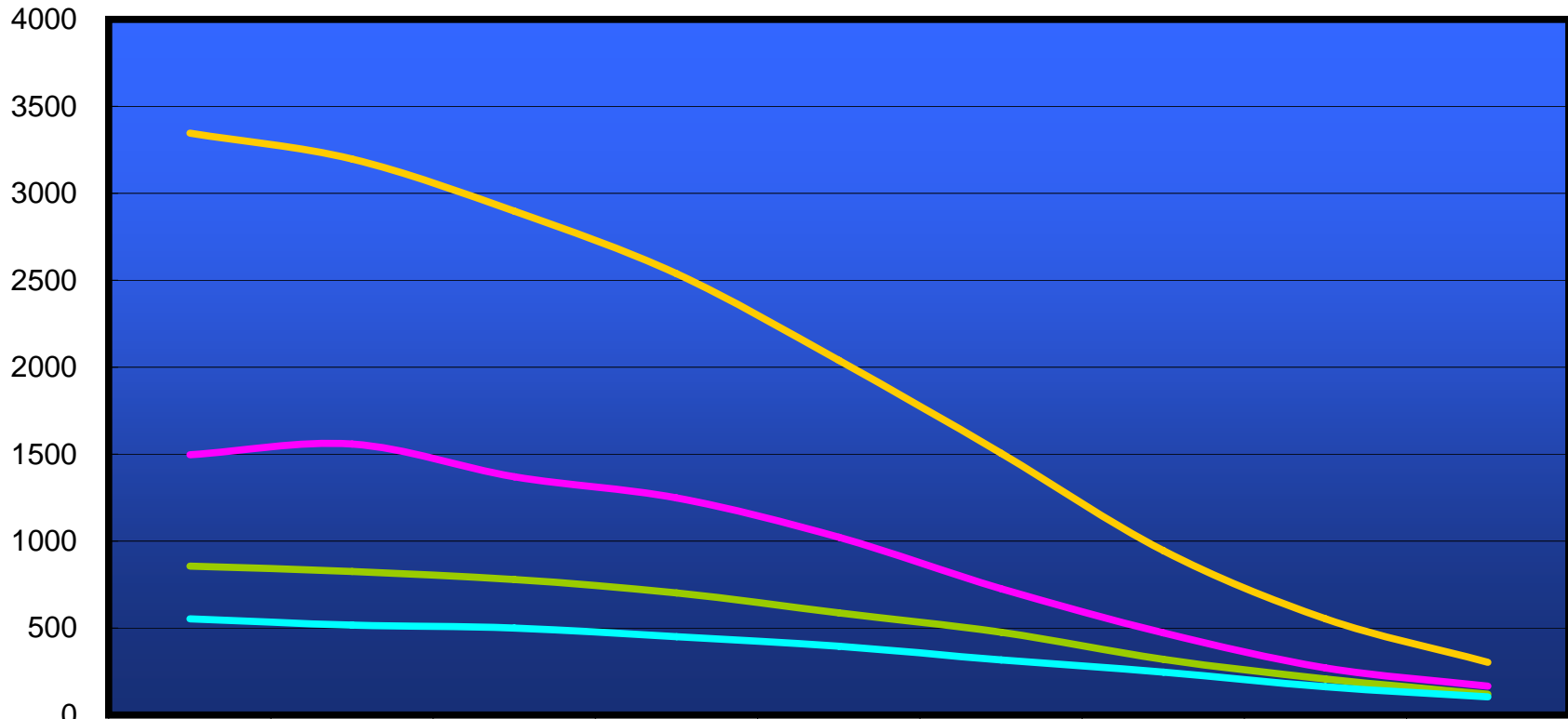
I/Ops



	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
— RAID 0	1482.5967	1442.4027	1382.1994	1279.139	1110.7629	882.86956	637.55517	132.39258	49.656717
— RAID 1	1389.8668	1353.0562	1294.2914	1188.1446	1025.0074	825.07128	599.36245	121.90342	37.513067
— RAID 5	1472.9434	1439.1214	1370.1471	1269.436	1097.1699	874.45834	637.73027	158.36092	49.326678
— RAID 6	1463.1433	1427.3879	1363.4683	1255.4818	1093.485	866.44435	634.49296	156.18008	49.48474

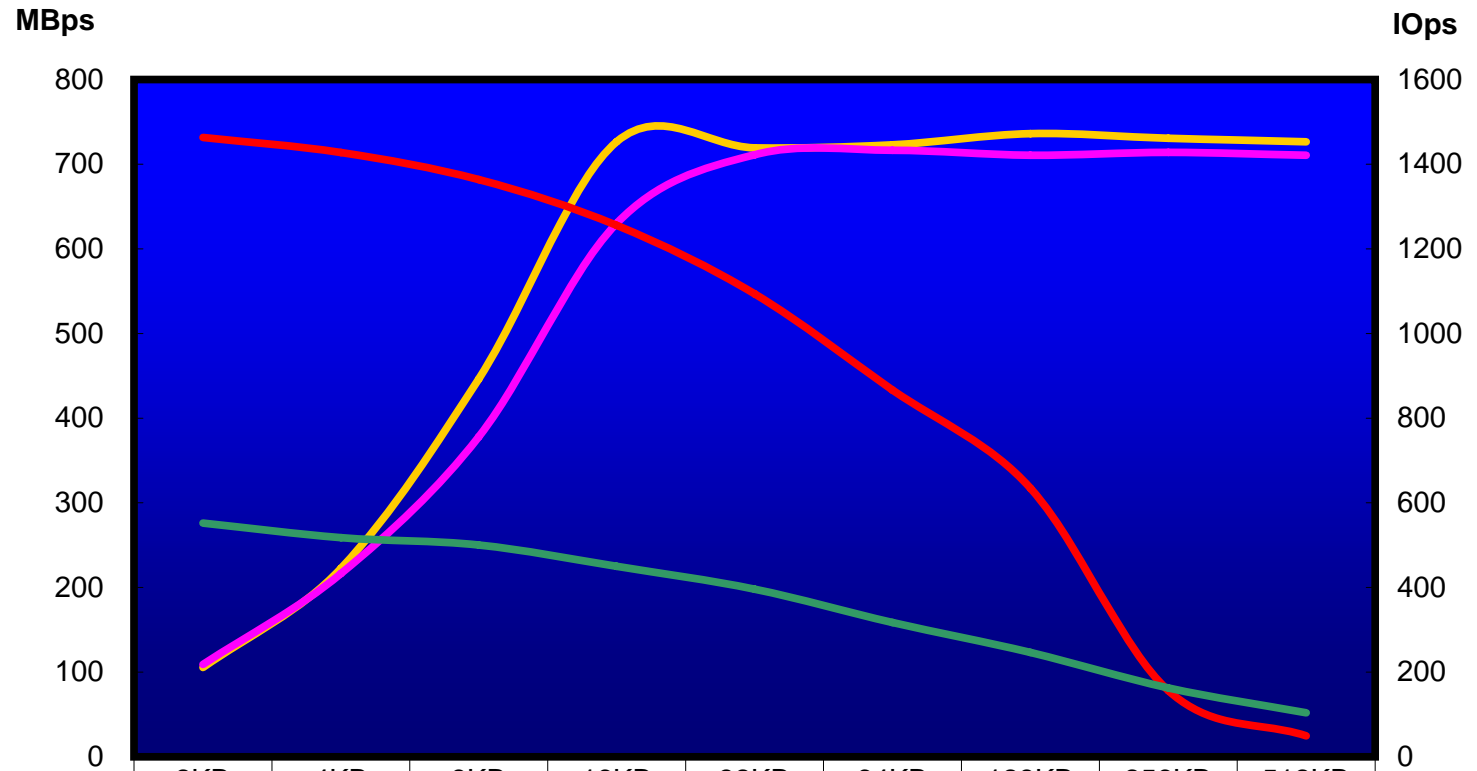
Random Write Strip size 64KB

I/Ops



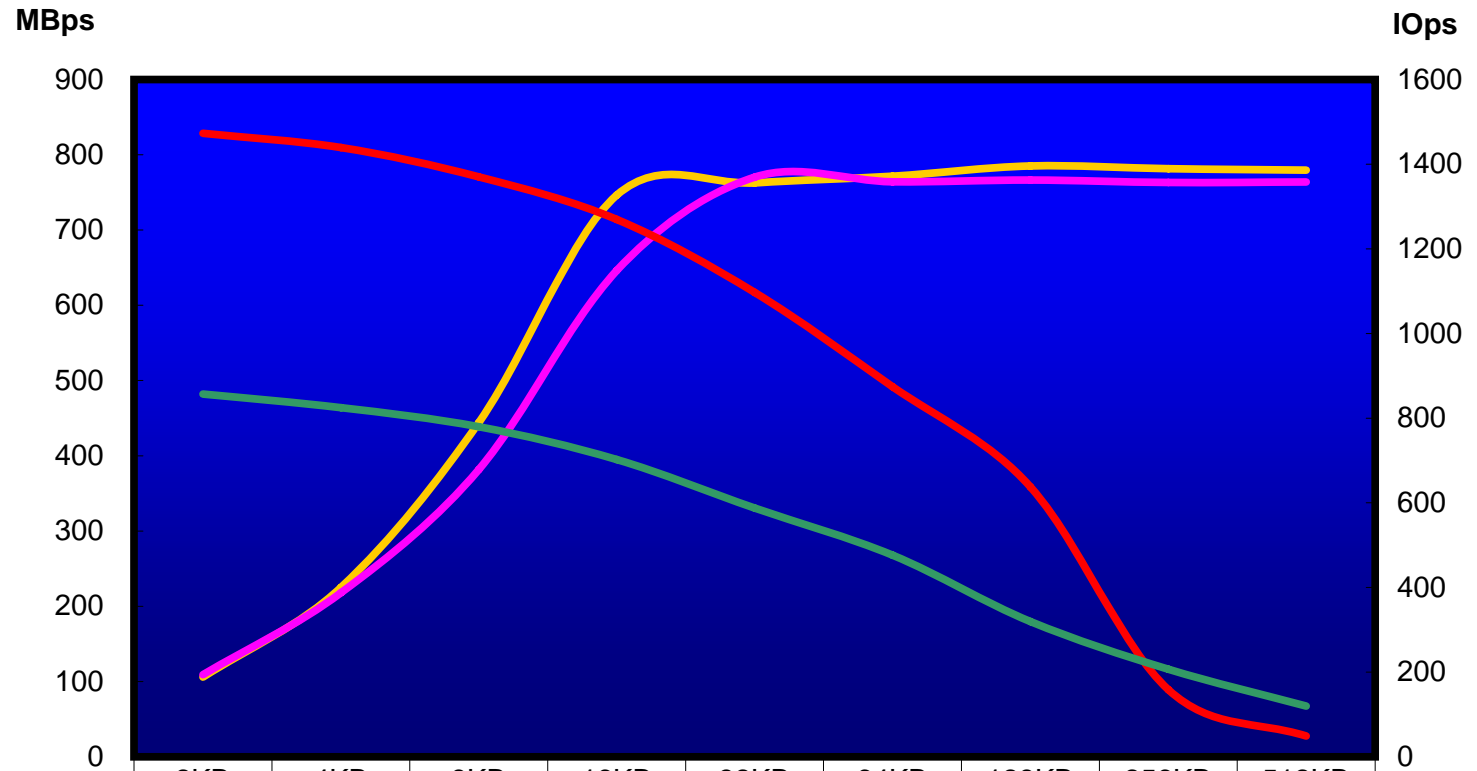
	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
RAID 0	3345.7109	3196.2563	2897.3967	2538.1557	2039.3665	1504.749	944.59213	552.56343	303.77096
RAID 1	1495.7855	1557.8177	1369.1206	1248.2903	1022.7784	726.60004	472.10135	270.24235	165.39449
RAID 5	856.88088	824.68843	779.93493	702.38912	587.77737	476.38295	319.70548	206.67339	119.93114
RAID 6	552.23818	517.8197	500.15655	450.18976	395.81624	317.27126	246.38183	162.596	104.07872

RAID 6 Strip Size 64KB



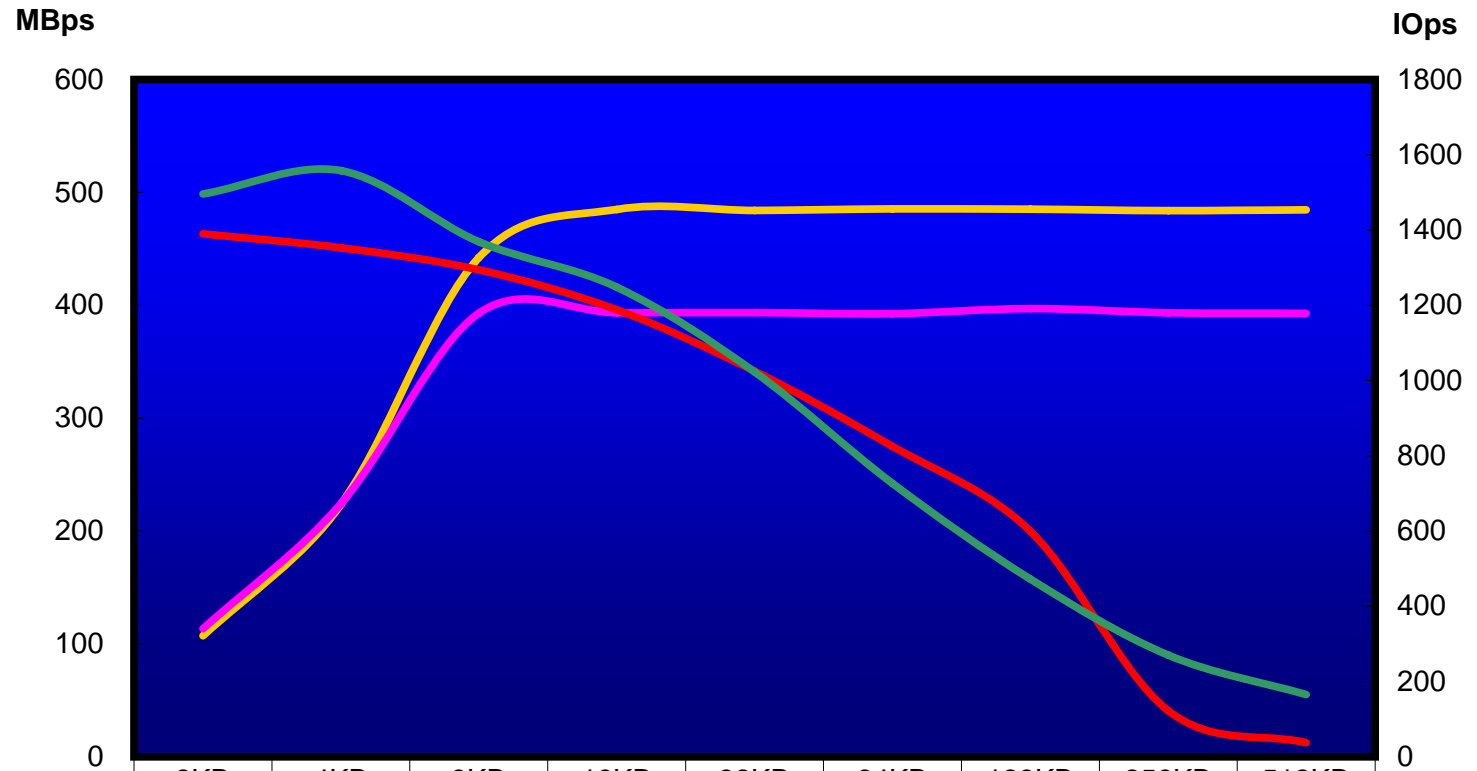
	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
Sequential Read MBps	105.49	222.50	446.19	726.61	719.18	722.89	736.01	730.61	726.41
Sequential Write MBps	109.15	216.51	377.97	630.18	711.21	716.38	710.57	713.88	710.48
Random Read I/Ops	1463.14	1427.39	1363.47	1255.48	1093.49	866.44	634.49	156.18	49.48
Random Write I/Ops	552.24	517.82	500.16	450.19	395.82	317.27	246.38	162.60	104.08

RAID 5 Strip Size 64KB



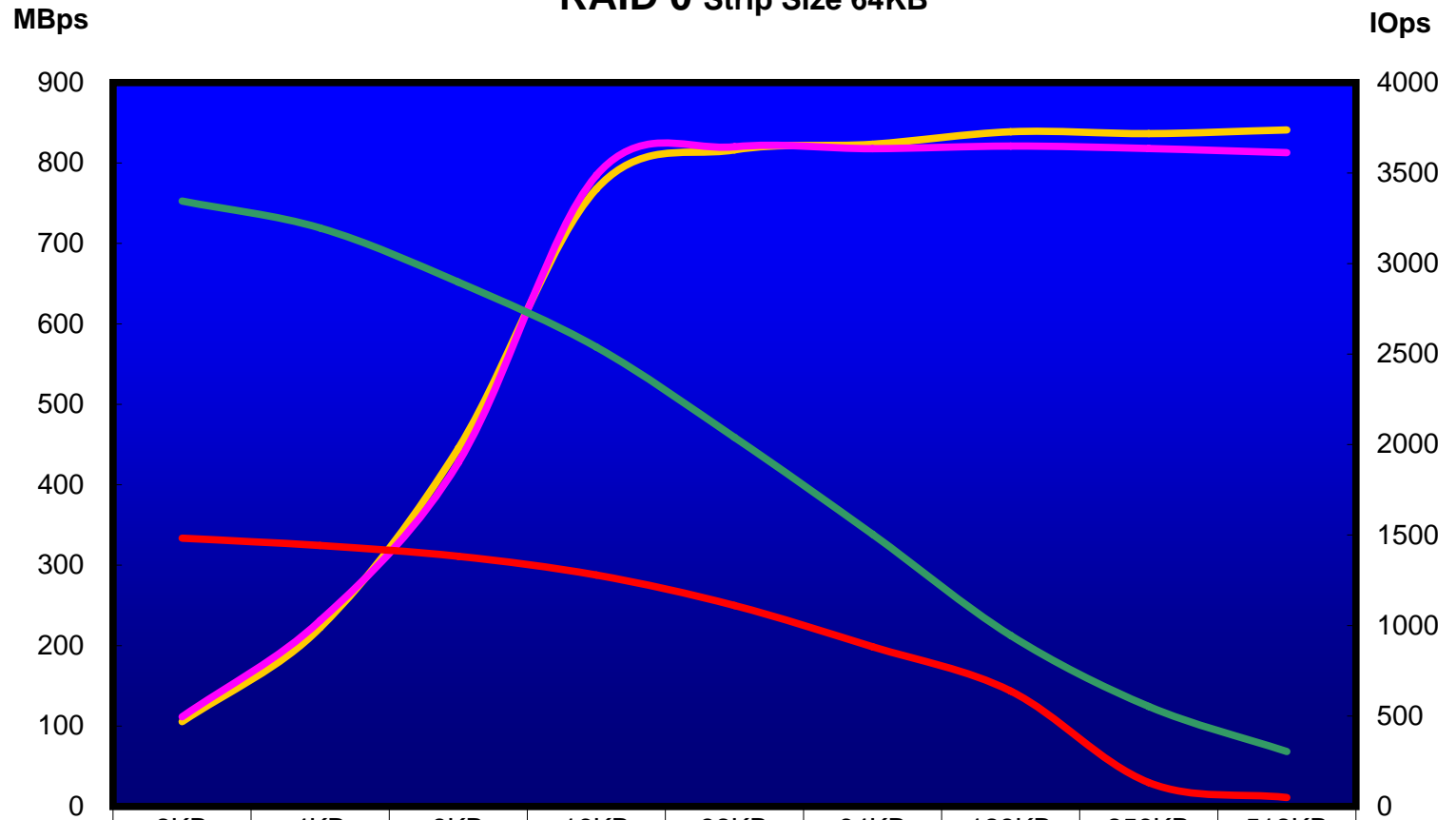
	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
Sequential Read MBps	105.98	225.11	443.99	746.37	762.57	771.58	785.18	781.56	779.54
Sequential Write MBps	109.12	217.93	381.54	646.23	770.16	763.98	766.48	763.25	763.84
Random Read I/Ops	1472.94	1439.12	1370.15	1269.44	1097.17	874.46	637.73	158.36	49.33
Random Write I/Ops	856.88	824.69	779.93	702.39	587.78	476.38	319.71	206.67	119.93

RAID 1 Strip Size 64KB



	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
Sequential Read MBps	107.20	223.69	442.17	484.89	484.01	485.37	485.19	483.87	484.62
Sequential Write MBps	113.46	224.23	393.03	393.42	393.56	392.55	397.13	393.38	392.86
Random Read IOps	1389.87	1353.06	1294.29	1188.14	1025.01	825.07	599.36	121.90	37.51
Random Write IOps	1495.79	1557.82	1369.12	1248.29	1022.78	726.60	472.10	270.24	165.39

RAID 0 Strip Size 64KB



	2KB	4KB	8KB	16KB	32KB	64KB	128KB	256KB	512KB
Sequential Read MBps	105.49	222.53	444.92	767.93	816.31	823.40	838.81	836.53	841.11
Sequential Write MBps	111.50	231.16	427.30	784.78	820.17	817.91	821.04	817.98	812.90
Random Read IOps	1482.60	1442.40	1382.20	1279.14	1110.76	882.87	637.56	132.39	49.66
Random Write IOps	3345.71	3196.26	2897.40	2538.16	2039.37	1504.75	944.59	552.56	303.77

Test Environment

Model	ARC-1280	Date	2007/5/31
Firmware Ver.	V1.42 2006/10/13		
BIOS Ver.	V1.17b 2006/08/07	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	Seagate	ST3250620NS	3.AEE	250GB
2	Seagate	ST3250620NS	3.AEE	250GB
3	Seagate	ST3250620NS	3.AEE	250GB
4	Seagate	ST3250620NS	3.AEE	250GB
5	Seagate	ST3250620NS	3.AEE	250GB
6	Seagate	ST3250620NS	3.AEE	250GB
7	Seagate	ST3250620NS	3.AEE	250GB
8	Seagate	ST3250620NS	3.AEE	250GB
9	Seagate	ST3250620NS	3.AEE	250GB
10	Seagate	ST3250620NS	3.AEE	250GB
11	Seagate	ST3250620NS	3.AEE	250GB
12	Seagate	ST3250620NS	3.AEE	250GB
13	WD	WD4000KD-00NAB0	01.06A01	400GB
14	WD	WD4000KD-00NAB0	01.06A01	400GB
15	WD	WD4000KD-00NAB0	01.06A01	400GB
16	WD	WD4000KD-00NAB0	01.06A01	400GB