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ANSYS Benchmark #6: Results List

A Test of the Hard Drive

This benchmark creates 125,000 elements and 10,000 volumes, and then saves and resumes the database 35 times. The amount of data written and read has been lengthened to provide an adequate scale of comparison for newer and faster hard drives.

- Please email your results data to benchmarks@padtinc.com

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Rank	Computer Make	File System	Disk Details	ANSYS Version	ANSYS Switches	Wall Time	CPU Time	Comments
1.	1	ntfs	westerndigital raid 10,000 RPM 16 MB buffer	1	-m 1 -db 1	0.00	0.00	1
2.	1	ntfs	westerndigital raid 10,000 RPM 16 MB buffer	1	-m 1 -db 1	0.00	0.00	1
3.	1	ntfs	westerndigital raid 10,000 RPM 16 MB buffer	1	-m 1 -db 1	0.00	0.00	1
4.	1	ntfs	westerndigital raid 10,000 RPM 16 MB buffer	-1'	-m 1 -db 1	0.00	0.00	1
5.	1	ntfs	westerndigital -1' 10,000 RPM 16 MB buffer	1	-m 1 -db 1	0.00	0.00	1
6.	1	ntfs	-1' raid 10,000 RPM 16 MB buffer	1	-m 1 -db 1	0.00	0.00	1
7.	-1'	ntfs	westerndigital raid 10,000 RPM 16 MB buffer	1	-m 1 -db 1	0.00	0.00	1
8.	1	-1'	westerndigital raid 10,000 RPM 16 MB buffer	1	-m 1 -db 1	0.00	0.00	1
9.	1	ntfs	westerndigital raid 10,000 RPM 16 MB buffer	1	-m 1 -db 1	0.00	0.00	-1'
10.	Lenovo ThinkStation D20	NTFS	Seagate Cheetah 15K.6 SAS 15,000 RPM 16 MB buffer	11.0 sp1	-m 4096 -db 1024	0.04	0.04	2x Xeon X5570, Vista 64 OS, RA 8/2009
11.	Dell Precision T3500	NTFS	Samsung SSD 0 MB buffer	12.1		0.06	0.05	Intel Xeon 6 cores, Samsung SSD PM800 2.5" 238 GB, Win 7x64
12.	Dell T5530*	NTFS	Seagate SAS 300GB 15,000 RPM 2 MB buffer	12.0	-m 20000 -db 2000	0.07	0.07	
13.	Gridcore AB, whitebox	UNIX	SEAGATE, ST373455SS SCSI 10,000 RPM 16 MB buffer	10.0	-m 1000 -db 800	0.08	0.08	Ubuntu 7.04. Added /config,nproc,4 in bench06.mac. The system sez the disks spin at 10k, whereas the model is a 15k. Uncertain if setup correctly or what.
14.	HP xw8600	NTFS	Seagate SATA 7,200 RPM 16 MB buffer	11.0 SP1	-m 4000 -db 1000	0.09	0.07	XP64, 6GB RAM, Dual Xeon E5440 @2.83 GHz, NP=2
15.	@Xi Mtower 2P64	NTFS	2xSeagate ST3146854LC Ultra320 SCSI 15,000 RPM 8 MB buffer	10.0 XP64 Beta	-m 1000 -db 800	0.10	0.07	XP64; Adaptec 2120S Raid 0; Opteron 254 x 2; 1/27/06 -DB
16.	Dell PowerEdge 6800	NTFS	Western Digital SCSI 7,200 RPM 8 MB buffer	11	-m 10240 -db 5120	0.12	0.08	
17.	Dell Precision	NTFS	Seagate SATA,	11		0.12	0.07	WinXP 64 bit

	490		3.0GB/s 7,200 RPM 2 MB buffer	SP1				
18.	2xWD1600JD SATA SATA	NTFS	Western Digital ATA-133 7,200 RPM 8 MB buffer	10.0	-m 1200 -db 1000	0.12	0.09	Asus P5W DH, 2Gb OCZ PC800, E6600, 32bit XP Pro
19.	Dell Precision 870	NTFS	Seagate ST373454LW SCSI 15,000 RPM 8 MB buffer	11 SP1		0.12	0.11	
20.	@Xi Mtower 2P64	NTFS	2xSeagate ST3146854LC Ultra320 SCSI 15,000 RPM 8 MB buffer	9.0	-m 1000 -db 800	0.13	0.11	XP64; A adaptec 2120S Raid 0; Opteron 254 x 2; 1/26/06 -DB
21.	Xi MTower 64SLi Workstation	NTFS	Western Digital SATA 10,000 RPM 8 MB buffer	11.0		0.13	0.12	
22.	Dell XPS M1730	NTFS	Western Digital ATA-133 7,200 RPM 6 MB buffer	11.0	-m 1200 -db 500	0.16	0.11	
23.	Custom (Carlos)	NTFS	2xWD1600JD SATA SATA 7,200 RPM 8 MB buffer	8.1	-m 800 -db 600	0.16	0.15	P4C (Northwood) 3.2 @ 3.76, A bit IC7-G, 2Gb OCZ RAM, SATA RAID 0
24.	Custom (Carlos)	NTFS	WD740GD SATA 10,000 RPM 8 MB buffer	8.1	-m 800 -db 600	0.18	0.15	P4C (Northwood) 3.2 @ 3.76, A bit IC7-G, 2Gb OCZ RAM, SATA RAID 0
25.	Xi MTower 2P64	NTFS	Western Digital SATA 150 MB/s 7,200 RPM 8 MB buffer	9.0	-m 1024 -db 768	0.20	0.13	
26.	home made (2 xeon)	UNIX	Western Digital sata 7,200 RPM 8 MB buffer	10.0	-m 800 -db 600	0.21	0.21	raid 0 disks, linux 2.6.8.1
27.	Dell XPS1530	NTFS	Seagate SATA-300 5,400 RPM 8 MB buffer	11sp1	-m 4096 -db 256	0.22	0.12	
28.	Home Built Pentium 4	NTFS	Maxtor - Raid 0 ATA-133 7,200 RPM 8 MB buffer	7.1	-m 800 -db 600	0.22	0.15	3.2 GHz P4 over-clocked to 3.36, ASUS MB, 1 GB Dual Channel Ram, IDE Raid 0
29.	FSC Primergy RX330	UNIX	Seagate ATA-133 10,100 RPM 16 MB buffer	11.0		0.25	0.21	
30.	Custom	NTFS	2 x Western Digital Raptor ATA-133 10,000 RPM 8 MB buffer	9.0	-m 1024 -db 256	0.26	0.21	
31.	Custom (Carlos)	NTFS	2xWD1600JD SATA 7,200 RPM 8 MB buffer	8.1	-m 512 -db 256	0.27	0.25	P4C (Northwood) 3.2 @ 3.76, A bit IC7-G, 2Gb OCZ RAM, SATA RAID 0
32.	Custom	NTFS	Western Digital Raptor SATA-133 10,000 RPM 8 MB buffer	8.1		0.27	0.31	AMD XP2600 overclocked to 2150MHz 1GB RAM
33.	Custom (Carlos)	NTFS	WD740GD SATA 10,000 RPM 8 MB buffer	8.1	-m 512 -db 256	0.29	0.25	P4C (Northwood) 3.2 @ 3.76, A bit IC7-G, 2Gb OCZ RAM, SATA RAID 0
34.	Custom Dual Opteron 248	NTFS	Western Digital S- ATA-133 10,000 RPM 8 MB buffer	8.0		0.35	0.30	4 S-ATA 10000RPM 36.7Gb disks in Raid 0
35.	PADT (g)	NTFS	Western Digital ATA-133 7,200 RPM 8 MB buffer	8.1	-m 512 -db 256	0.37	0.33	P4 3.2E (Prescott) P4S800D 2x1Gb PC3200 2xWD800JB in RAID0
36.	Custom (Carlos)	NTFS	Western Digital EIDE 7,200 RPM 8 MB buffer	7.1	-m 800 -db 600	0.37	0.37	2x WD800JB in RAID 0
37.	Custom Dual Xeon P4	NTFS	Maxtor ATA-133 7,200 RPM	8.0		0.39	0.32	

			8 MB buffer						
38.	Dell Precision 470	NTFS	Seagate SCSI 15,000 RPM 2 MB buffer	8.1		0.39	0.29		Dual Xeon processors, 2Mb RAM
39.	Dell Precision 670	NTFS	Samsung ATA-II 7,200 RPM 8 MB buffer	10.0		0.43	0.21		
40.	Fujitsu Siemens	NTFS	SAMSUNG IDE-133 7,200 RPM 2 MB buffer	9.0		0.50	0.24		default memory settings
41.	Dell Vostro 1500	NTFS	Samsung SATA 5,400 RPM 8 MB buffer	11.0		0.54	0.18		Laptop
42.	Lenovo T61P Laptop	NTFS	Hitachi HTS72201 SATA 7,200 RPM 16 MB buffer	11	-m 1000 -db 500	0.59	0.11		11/2008
43.	Dell Precision 370	NTFS	Seagate Barracuda 7200.7 SATA 16 SATA 7,200 RPM 8 MB buffer	8.1A1	-m 1400 -db 386	0.60	0.27		
44.	Custom (Ben)	NTFS	Western Digital ATA-133 7,200 RPM 8 MB buffer	8.1	-m 800 -db 600	0.62	0.27		2x 80 GB SATA RAID-0
45.	Custom built	NTFS	Western Digital Raptor ATA-133 10,000 RPM 8 MB buffer	9.0	-m 1024 -db 512	0.63	0.18		RAID 0 on two Raptor HDD's
46.	HP xw8200	UNIX	Maxtor Atlas III SCSI 15,000 RPM 8 MB buffer	10.0		0.65	0.20		
47.	Custom (Carlos)	FAT32	Western Digital EIDE 7,200 RPM 8 MB buffer	7.1	-m 800 -db 600	0.66	0.19		defragged the disk and went from 2.18 to 0.664 hours
48.	FSC Celsius R630	NTFS	Western Digital S- ATA 150 7,200 RPM 8 MB buffer	10.0		0.70	0.23		
49.	Custom (Ridgeback)	NTFS	Western Digital ATA-100 7,200 RPM 2 MB buffer	7.1	-m 800 -db 600	0.80	0.61		WD Caviar 60Gb UATA100(WB600BB)
50.	Dell Precision 670	NTFS	Western Digital WD- 800GD SATA-150 10,000 RPM 8 MB buffer	8.1		0.97	0.29		Brand-new Dell machine for use in heavy computer analysis and modeling.
51.	Custom (Carlos)	FAT32	Western Digital EIDE 7,200 RPM 8 MB buffer	7.1	-m 800 -db 600	2.18	2.18		WD1200JB
52.	Dell Precision M6300 Laptop	NTFS	Sandisk SSD SATA 5000 2.5 8 MB buffer	11 sp1		3.39	0.14		WinXP 32 bit

Top 100 results are shown, ranked by *Wall Time*.

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