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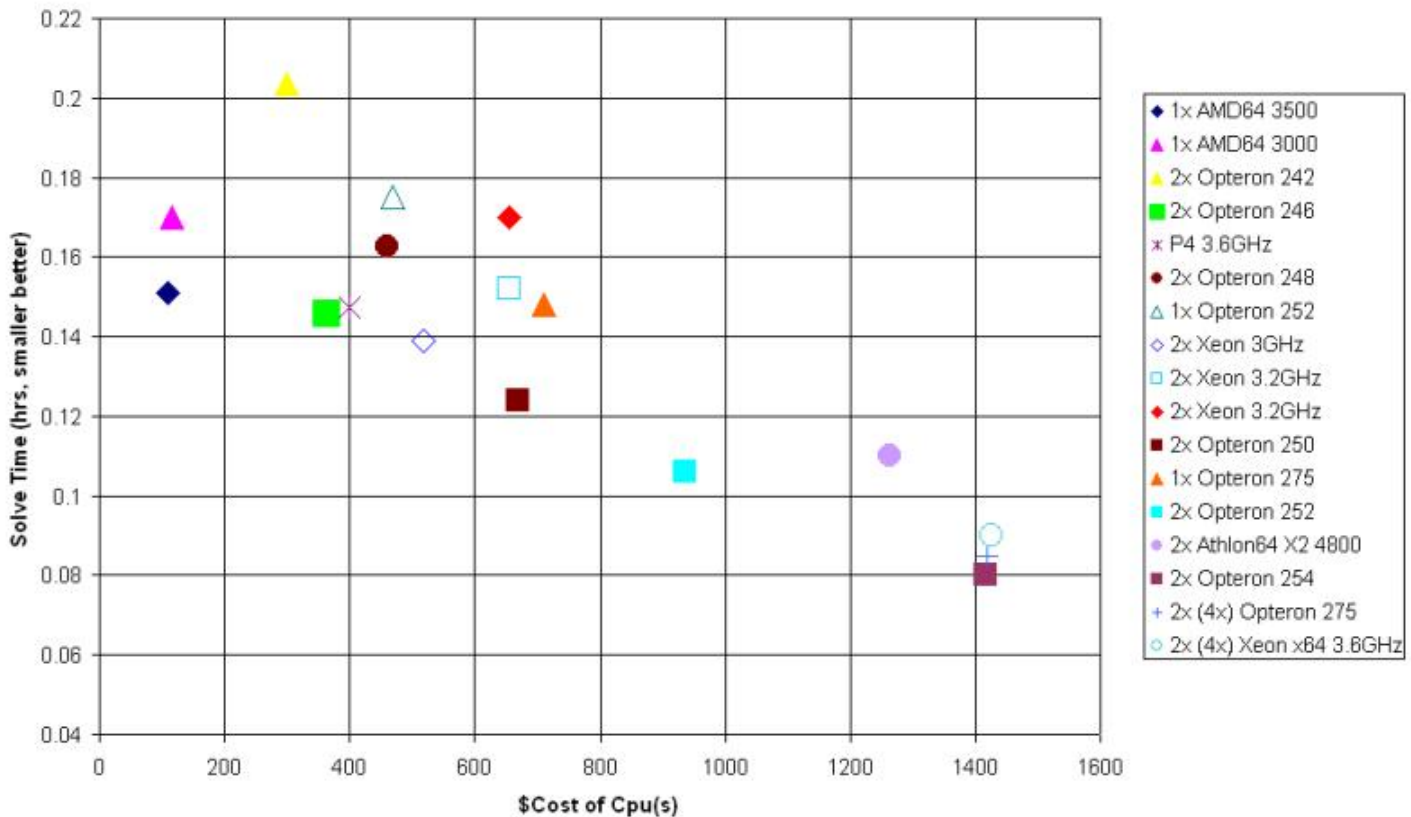
## ANSYS Benchmark #5: Results List

### A Test of the CPU

This benchmark is a small contact with plasticity model which will primarily exercise the computer's CPU. Hard drive, RAM, and -m/-db settings should not influence the results. Note that this is an elongated version of [Benchmark #2](#). The image below is a chart based on data taken from June 22, 2006 on CPU price vs CPU Speed.

- Please email your results data to [benchmarks@padtinc.com](mailto:benchmarks@padtinc.com)

Benchmark Wall Solve Time vs Cost  
[data from PADT Benchmark #5 and Newegg.com June 22, 2006]



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Rank	Computer Make	CPU Details	ANSYS Version	Wall Time	CPU Time	Comments
1.	Custom System	qx9775 (3.200 GHz) (2 CPUs)	11.0	0.00	0.12	Executed on Ram Drive with /Config,nproc,2
2.	Custom System	qx9775 (3.200 GHz) (2 CPUs)	11.0	0.00	0.01	
3.	DELL Precision T3400	Intel Core 2 Quad (2.830 GHz) (1 CPU)	11.0 SP1	0.01	0.15	Vista 64 SMP on with 2 cores
4.	Gridcore AB, whitebox	xeon woodcrest 5160 (3.000 GHz) (2 CPUs)	10.0	0.05	0.13	/config,nproc,4, Linux Ubuntu 7.04
5.	HP xw8600	Intel Xeon E5440 (2.830 GHz) (2 CPUs)	11.0	0.06	0.12	Win64, NP=2

6.	Dell Precision 690	Xeon 5160 (3.000 GHz) (1 CPU)	10.0	0.07	0.10	/config,nproc,4
7.	Monarch Empro Custom Workstation	Opteron 280 (2.400 GHz) (2 CPUs)	10.0	0.07	0.26	added /config,nproc,4 to the command file
8.	Selfmade PC	Intel Core i7 (2.700 GHz) (4 CPUs)	11.0	0.07	0.18	/config,nproc,8
9.	Dell Precision 490	Intel Woodcrest 5160 (3.000 GHz) (1 CPU)	11.0 SP1	0.07	0.13	/config,nproc,2
10.	Dell 690	Quad Xeon (2.600 GHz) (2 CPUs)	11.0	0.07	0.54	/config,nproc,8
11.	DELL Precision PWS390, 4GB ram	Core2Duo E6700 (2.660 GHz) (1 CPU)	10.1	0.08	0.10	XP64, /config,nproc,2
12.	Custom, PADT-built	Core 2 Duo (2.400 GHz) (2 CPUs)	10.1	0.08	0.11	XP 64, -m 2500 -db 256, /config,nproc,2
13.	Dell Precision PWS690	Intel Xeon 5160 (3.000 GHz) (2 CPUs)	11.0 SP1	0.08	0.13	Windows XP x64
14.	AMD	Phenom II 945 (3.000 GHz) (1 CPU)	12.0	0.08	0.31	1 CPU, 4 cores
15.	HP DL585	Opteron 852 (2.600 GHz) (4 CPUs)	10.0 SP2 x64	0.08	0.31	Windows Server 2003 x64, NPROC=4, 16Gb Ram installed
16.	@Xi Mtower 2P64	Opteron 254 (2.800 GHz) (2 CPUs)	10.0 XP64 Beta	0.08	0.15	XP64; nproc=2. 1/26/06 -DB
17.	PC Specialist LTD	Core 2 Duo E6700 (2.670 GHz) (1 CPU)	10.0SP1	0.08	0.10	Windows XP Pro X64, ASUS P5W DH Deluxe M/Board, 4GB Corsair DDR-2 667 PC5300 RAM, SATA II 320GB hard drive. Total price £1070 (\$2030).
18.	Intel(R) Core(TM)2 CPU 6400 @ 2.13GHz, 2.00 GB RAM	Pentium 4 (2.130 GHz) (1 CPU)	7.0	0.08	0.13	
19.	Fujitsu Siemens	Intel XEON E5440 Quad (2.830 GHz) (1 CPU)	10.0	0.09	0.11	/config,nproc,4
20.	HP DL585	Opteron 852 (2.600 GHz) (4 CPUs)	10.0 SP2 x64	0.09	0.25	Windows Server 2003 x64, NPROC=3, 16 Gb Ram Installed; (In case this result is rounded down it was 0.085 wall, c.f. 0.0797 wall for NPROC=4)
21.	Xi MTower 2P64	AMD Opteron 275 (2.200 GHz) (4 CPUs)	9.0	0.09	0.33	using NPROC=4 for the two dual-core processors
22.	@Xi Mtower 2P64	Opteron 254 (2.800 GHz) (2 CPUs)	9.0	0.09	0.17	XP64; nproc=2. 1/25/06 -DB
23.	Dell 470	Xeon x64 2M (3.600 GHz) (2 CPUs)	10 x64 beta	0.09	0.26	NPROC=4
24.	Custom (Carlos)	E6600 (2.400 GHz) (1 CPU)	10.0	0.09	0.11	E6600 Core 2 Duo, 32bit XP Pro, 2Gb OCG PC800, Asus P5W DH
25.	Fujitsu Siemens	Intel XEON E5440 (2.830 GHz) (1 CPU)	10.0	0.09	0.13	12 GB RAM, 1 CPU Quad and ansys started on 1 CPU
26.	Dell Precision 690	Xeon 5160 (3.000 GHz) (2 CPUs)	11.0	0.09	0.09	XP 64
27.	DELL Precision (AMSL)	Xeon 5130 (2.000 GHz) (4 CPUs)	10.0	0.09	0.17	
28.	Dell Precision T3500	Intel Xeon 6 Cores (3.330 GHz) (1 CPU)	12.1	0.10	0.16	
29.	HP DL585	Opteron 852 (2.600 GHz) (4 CPUs)	10.0 SP2 x64	0.10	0.19	Windows Server 2003 x64, NPROC=2, 16Gb Ram installed, (unrounded 0.0969 wall c.f. 3 cpu 0.085 wall c.f.4 cpu 0.0797 wall)
30.	Dell 470	Xeon x64 2M (3.600 GHz) (2 CPUs)	10 x64 beta	0.10	0.21	
31.	DELL Precision T3400	Intel Core 2 Quad (2.830 GHz) (4 CPUs)	11.0	0.10	0.01	

		(2.830 GHz) (1 CPU)				
32.	HP XW9300	AMD Opteron 252 (2.590 GHz) (2 CPUs)	10.0	0.11	0.18	
33.	Home Built	Intel Core 2 Duo E6600 (2.400 GHz) (1 CPU)	10.0	0.11	0.11	ASUS P5B Delux + 2x512MB Corsair Value DDR2-533 + 2X80GB MAXTOR SATA2 in RAID 0
34.	Komplett, custom	AMD Athlon64 X2 4800 (2.400 GHz) (2 CPUs)	10.0XP64 Beta	0.11	0.18	NPROC=2 4G PC3200
35.		Xeon (2.000 GHz) (1 CPU)	11.0	0.11	0.11	
36.	Custon (ZZ)	AMD Athlon X2 5000 (2.600 GHz) (1 CPU)	10.0	0.11	0.11	HD WD Raptor 36GB
37.	Sun W2100z, Opteron 252	Opteron (2.600 GHz) (2 CPUs)	11.0	0.12	0.12	OS suse 9.1 (x86-64), kernel 2.6.4-52-smp
38.	Lenovo T61P	Intel Core 2 Duo T7700 (2.400 GHz) (1 CPU)	11.0	0.12	0.12	smp=2 proc
39.	HP workstation XW9300	Opteron 252 (2.600 GHz) (2 CPUs)	10.0	0.12	0.11	/config,nproc,2
40.	Home made	opteron 144 (2.800 GHz) (1 CPU)	10.0A1	0.12	0.10	Single core opteron 1.8Ghz boosted at 2.8Ghz with no over voltage. Low latancy PC3200 memory (2.3.2 5)
41.	Home made	opteron 144 (2.800 GHz) (1 CPU)	10.0A1 Winx64	0.12	0.10	Single core opteron 1.8Ghz boosted at 2.8Ghz with no over voltage. Low latancy PC3200 memory (2.3.2 5)
42.	HP XW9300 Windows XPx64	AMD OPTERON (2.400 GHz) (2 CPUs)	10.0 SP 1 64bit	0.12	0.20	Listed is 10.0 SP1 with /config,nproc,2 If I use 10.0 32 bit with /config,nproc,2 wall is .130 If I use 10.0 32 bit with /config,nproc,1 wall is .163
43.	HP DL 585	Opteron 852 (2.600 GHz) (4 CPUs)	10.0 SP2 x64	0.13	0.12	Windows Server 2003 x64, NPROC=1, 16 Gb Ram installed (1 cpu=0.126, cf 2 cpu=0.0969 cf 3 cpu=0.085 cf 4cpu=0.0797)
44.	Custom	AMD Optron 170 (2.000 GHz) (1 CPU)	10	0.13	0.12	AMD Optron 170 oc to 2.5GHz, DFI MB, RAM DDR400 1Gx2 no ECC, 1 SATA 250GB HD, NV 7800GTX 256MB
45.	Dell Latitude E4300	Intel Core 2 Duo SP9600 (2.530 GHz) (1 CPU)	12.0	0.13	0.22	2 cores were used for solving
46.	Asus P5WDG2 WS Pro	Core 2 Duo E6600@3GHz (3.000 GHz) (1 CPU)	7.0	0.13	0.09	can anyone tell me how to instruct NPROC=2 in batch mode?
47.	Dell Precision T7400	Intel Xeon X5450 (3.000 GHz) (1 CPU)	11.0	0.13	0.10	
48.	4GB Ram, Windows X64, RAID 0	AMD64 3500+ (2.210 GHz) (1 CPU)	10.0A1	0.13	0.13	
49.	Custon	Intel Core 2 Duo (2.400 GHz) (1 CPU)	10.0	0.13	0.11	/config,nproc,2
50.	home made w64	Intel Core 2 Duo (2.000 GHz) (1 CPU)	11.0	0.14	0.20	
51.	Custom Built	AMD Athlon 64 4200+ (2.210 GHz) (2 CPUs)	11.0SP1	0.14	0.24	
52.	Dell Precision 870	Intel Intel Xeon (3.600 GHz) (2 CPUs)	11.0 SP1	0.14	0.24	WinXP 64 bit, /config,nproc,2
53.	selfmade, AMD-X4- 9750/4GB/Vista64	AMD Phenom X4 9750 (2.400 GHz) (1 CPU)	11.0	0.14	0.26	Ansys 11 Academic Teaching Advanced >>>> max. 2CPU SMP!!! (~50% load)
54.	Fujitsu-Siemens, Celsius R640	Intel Xeon 5160 (3.000 GHz) (2 CPUs)	11.0	0.15	0.10	
55.	Custom	Opteron 246 (2.000 GHz) (2 CPUs)	8.1	0.15	0.00	
56.	MAXDATA	Pentium 4	10.0SP1	0.15	0.15	WinXP64. Mainboard ASUS P5GD2 Premium. 2GB DDR2 RAM. RAID0 on 2

		EM64T 800MHZ FSB (3.600 GHz) (1 CPU)	XP64			Raptor 75GB
57.	Xi MTower 2P64	AMD Opteron 275 (2.200 GHz) (1 CPU)	9.0	0.15	0.14	
58.		Intel Core 2 Duo (2.000 GHz) (1 CPU)	11.0	0.15	0.24	
59.	sssss	Intel Core 2 Duo (2.000 GHz) (4 CPUs)	11.0	0.15	0.24	
60.	sssss	Intel Core 2 Duo (2.000 GHz) (4 CPUs)	11.0	0.15	0.24	
61.	sssss	Intel Core 2 Duo (2.330 GHz) (4 CPUs)	11.0	0.15	0.24	
62.	Shuttle SN95G5	AMD64 +3500 (2.200 GHz) (1 CPU)	9.0	0.15	0.15	2 GB PC3200, 2xWD RAPTOR 76 GB Raid0
63.	Custom	XEON 1MB (3.200 GHz) (2 CPUs)	10.0	0.15	0.14	Linux Fedora Core 4 32 Hyperthreading disabled /config,nproc,2
64.	Home built	AMD64 3500+ (2.200 GHz) (1 CPU)	8.1	0.15	0.15	SATA raid (2x), 2 Gb PC3200
65.	Lenovo T61P	Intel Core 2 Duo T7700 (2.400 GHz) (1 CPU)	11.0	0.16	0.12	
66.	Nisse	Intel Core 2 Duo (2.000 GHz) (1 CPU)	11.0	0.16	0.08	
67.	FSC	XEON (3.600 GHz) (2 CPUs)	11.0	0.16	0.18	/config,nproc,2
68.	XP64	Intel Core 2 Duo (2.000 GHz) (1 CPU)	11.0	0.16	8.19	
69.	DELL Precision T3400	Intel Core 2 Duo E6850 (3.000 GHz) (1 CPU)	11.0sp1	0.16	0.09	Running CentOS 4.6 x86_64
70.	Custom	Pentium 4 (4.370 GHz) (1 CPU)	10.0SP1 XP64	0.16	0.10	OverClocked Pentium4 3.8Ghz
71.	Custom	Opteron 248 (2.200 GHz) (2 CPUs)	10.0	0.16	0.30	4Gb PC3200, both cpus used, suse linux, tyan motherboard
72.	FSC Primergy RX220	Opteron 254 (2.800 GHz) (1 CPU)	11.0	0.16	0.16	
73.	Custom	Athlon64 3000+ (1.800 GHz) (1 CPU)	10.0SP1	0.17	0.19	
74.	Custom	Xeon 800FSB (Nocona) (3.200 GHz) (2 CPUs)	9.0	0.17	0.30	4GB DDR2-400 SDRAM Reg. ECC Supermicro X6DA8-G2 mainboard (Intel E7525 Chipset)
75.	None	AMD X2 4800 (2.400 GHz) (1 CPU)	10.0	0.17	0.14	Dual Core
76.	Custom	Opteron 252 (2.600 GHz) (1 CPU)	10.0	0.18	0.17	Linux Fedora Core 4 64
77.	Xi MTower 64SLi Workstation	AMD Athlon 3800+ Dual Core (2.010 GHz) (2 CPUs)	11.0	0.18	0.30	NPROC=2
78.	Custom (Carlos)	Pentium 4 (3.760 GHz) (1 CPU)	8.1	0.18	0.17	P4C (Northwood) 3.2 @ 3.76, Abit IC7-G, 2Gb OCZ RAM, SATA RAID 0
79.	Dell Vostro 1500	Intel Core 2 Duo T7250 (2.000 GHz) (1 CPU)	11.0	0.18	0.12	Laptop
80.	Dell XPS1530	Intel Core 2 Duo (2.400 GHz) (1 CPU)	11.0sp1	0.18	0.14	
81.	Sun Fire v20z	AMD Opteron 250	10.0	0.19	0.18	Gentoo Linux 2.6.17

		(2.400 GHz) (2 CPUs)				
82.	Custom	AMD XP2800 (2.667 GHz) (1 CPU)	8.1	0.19	0.19	Overclocked to 2667 GHz using Prometeia cooling system, ata raid0, 1.5GB ram
83.	HP 9300	Opteron 250 (2.390 GHz) (1 CPU)	10	0.19	0.13	My compter is not yet fully optimized, it has 2 processors, but ANSYS is using only 1.
84.	Fujitsu Siemens Celsius V830	Opteron 275 (2.200 GHz) (1 CPU)	10.0	0.19	0.19	
85.	Dell D630	Intel Core 2 Duo (2.400 GHz) (1 CPU)	11.0	0.19	0.12	
86.	Fujitsu Siemens	Intel Pentium 4 (3.400 GHz) (1 CPU)	10.0	0.19	0.37	2 GB RAM, 1 CPU core duo but only 1 used
87.	home built	athlon 64 3500+ (2.200 GHz) (1 CPU)	10.0	0.20	0.20	linux 2.6-11 for x86_64
88.	Home Built Pentium 4	Pentium 4 (3.360 GHz) (1 CPU)	8.1	0.20	0.19	3.2 GHz P4 over-clocked to 3.36, ASUS MB, 1 GB Dual Channel Ram, IDE Raid 0
89.	HP xw4300 Workstation	Pentium 4 (2.800 GHz) (2 CPUs)	10	0.20	0.30	
90.	dell precision 690	Intel(R) Xeon(TM) (3.200 GHz) (2 CPUs)	10.0	0.20	0.20	
91.	SUN	AMD Opteron (2.000 GHz) (4 CPUs)	10 64 bit	0.20	0.20	
92.	intel	Pentium 4 (2.400 GHz) (1 CPU)	7.0	0.20	0.20	
93.	FSC	Intel XEON (3.600 GHz) (2 CPUs)	11.0	0.20	0.16	
94.	Dell XPS M1730	Intel Core 2 Duo (2.500 GHz) (1 CPU)	11.0	0.20	0.20	2.5GHz 6 mb cache 800 MHz FSB 4 GB 667 MHz Ram Raid 0 7200 rpm 200 GB Harddrive
95.	Monarch	Opteron 242 (1.600 GHz) (2 CPUs)	10.0	0.20	0.39	2 cpu used, SuSe SLES8 Kernal 2.4.21
96.	Custom (rf)	Pentium 4 (3.600 GHz) (1 CPU)	9.0	0.21	0.20	
97.	Custom	XEON 1MB (3.200 GHz) (2 CPUs)	10.0	0.21	0.20	Linux Fedora Core 4 32 Hyperthreading disabled /config,nproc,1
98.	low cost hardware out of a supermarket	Pentium 4 (3.200 GHz) (1 CPU)	9.0	0.21	0.40	p4 640, nproc 2, ht on, 7200 rpm sata, system drive is same as ansys working directory. xp sp2.
99.	Custom Dual Opteron 248	Opteron 248 (2.200 GHz) (2 CPUs)	8.0	0.22	0.21	Dual Opteron 248 (Not overclocked) with 10000RPM S-ATA drives
100.	Dell Precision M6300 Laptop	Intel Core 2 Duo (2.800 GHz) (1 CPU)	11.0 Sp1	0.22	0.10	WinXP 32 bit with SanDisk 32 GB SSD SATA 5000 2.5 Drive and 4GB DDR2 SDRAM

Top 100 results are shown, ranked by Wall Time. <smile you are on Trace\_Watch>

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