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ANSYS Benchmark #2: 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. Please note that [Benchmark #5](#) should provide more accurate results for newer, faster processors.

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

| [Benchmark Index](#) |

Rank	Computer Make	CPU Details	ANSYS Version	Wall Time	CPU Time	Comments
1.	SUxNATmR	Pentium III (1,000 MHz) (1 CPU)	6.0	0.000	0.000	
2.	HZbhMKqKPQhvKXkT	Pentium III (1,000 MHz) (1 CPU)	6.0	0.000	0.000	
3.	Dell XPS1530	Pentium III (2,400 MHz) (1 CPU)	11sp1	0.009	0.007	
4.	Fujitsu Siemens Celsius V830	Opteron 275 (2,200 MHz) (1 CPU)	10.0	0.010	0.010	
5.	Dell Vostro 1500	Intel Core 2 Duo T7250 (2,000 MHz) (1 CPU)	11.0	0.010	0.007	Laptop with 2Gb RAM
6.	Dell PowerEdge 6800	Intel Xeon Duo Core (3,400 MHz) (2 CPUs)	11.0	0.013	0.014	
7.	SGI ALTIX 350	Itanium 2 (1,500 MHz) (1 CPU)	11.0	0.014	0.014	Single CPU
8.	Fujitsu Siemens Primergy RX220	AMD Athlon 254 (2,800 MHz) (1 CPU)	10.0	0.017	0.009	
9.	Custom	Pentium 4 (2,660 MHz) (1 CPU)	6.1	0.017	0.017	512 of 1066 RDRAMM, motherboard is ASUS P4T533-C
10.	FSC Celsius R630	XeonDP (3,200 MHz) (2 CPUs)	10.0	0.017	0.020	
11.	NEC Versa E6210	Intel Core Duo T2300E (1,660 MHz) (1 CPU)	10.0	0.020	0.014	Laptop
12.	Compaq	Pentium IV XEON (2,400 MHz) (1 CPU)	6.1	0.020	0.020	
13.	NEC Versa E6210	Intel Core Duo T2300E (1,660 MHz) (1 CPU)	11.0	0.020	0.012	Laptop
14.	Dell Precision 650	Pentium Xeon (2,800 MHz) (2 CPUs)	6.1	0.021	0.020	Dual processor run
15.	Noname	Athlon XP 2100+ (1,800 MHz) (1 CPU)	6.0	0.026	0.026	MSI MB, Athlon XP 2100+, 512 MB, (700 \$ System) opts: -m 400 -db 100
16.	Dell Precision WorkStation 340	Pentium IV (2,400 MHz)	7.0	0.028	0.020	

ANSYS Benchmark #2: Results List

		(1 CPU)				
17.	No Name	Pentium 4 (2,800 MHz) (1 CPU)	7.0	0.029	0.029	P4 2.8Ghz machine running Red Hat 8 (linux) /proc/cpuinfo reveals cpu MHz 2800.120 cache size 512 KB bogomips 5556.67
18.	Dell Optiplex GX260	Pentium 4 (2,530 MHz) (1 CPU)	7.0	0.031	0.021	Dec 2002, Approx cost \$1500.
19.	ASUS P4V8X-X	Celeron D 340 (2,993 MHz) (1 CPU)	10.0	0.032	0.020	
20.	No name	Pentium 4 (2,400 MHz) (1 CPU)	8.0	0.032	0.026	
21.	SGI TEZRO	R16000 (1,000 MHz) (1 CPU)	11.0	0.034	0.033	Single CPU
22.	IE Custom	Pentium III (1,000 MHz) (2 CPUs)	6.0	0.035	0.061	ASUS CUV4X-DLS; 2GB PC133; 74GB Quantum Atlas10K3 U160 SCSI
23.	Dell Precision 530	Xeon (1,700 MHz) (2 CPUs)	7.0	0.036	0.056	Please remove previous entry with dual Xeons at 1700 MHz (Ansys 7.0) -[Done]
24.	INTEL	Pentium IV (2,400 MHz) (1 CPU)	7.1	0.038	0.027	1Gb ram DDR400
25.	No Name	AMD (1,800 MHz) (1 CPU)	7.0	0.046	0.043	AMD 1800+ machine running Red Hat linux 8 /proc/cpuinfo reveals cpu MHz 1535.241 cache size 256 KB bogomips 3046.10
26.	AMD	Athlon 1800+ MP (1,530 MHz) (2 CPUs)	5.7.1	0.047	0.060	
27.	custom	AMD Athlon (1,400 MHz) (1 CPU)	5.7	0.048	0.047	1.5 GB RAM; Seagate ST360021A g0 GB HDD; WIndows NT 4.0 (build 1381, SP6);
28.	AMD/	AMD XP1800+ (1,533 MHz) (1 CPU)	5.7	0.052	0.050	ASUS A7V266-E/ 1,5 GB ram
29.	Dell Precision 530	Xeon (1,700 MHz) (2 CPUs)	7.0	0.061	0.064	Please remove previous entry with dual Xeons at 1500 MHz
30.	Dell Precision Workstation 620	P3 Xeon (256KB L2) (1,000 MHz) (2 CPUs)	5.7 beta 3	0.068	0.089	2 processors used
31.	DELL Precision 530	XEON (1,500 MHz) (2 CPUs)	5.7	0.071	0.069	Single processor used.
32.	Dell Precision Workstation 340	P4 (1,700 MHz) (1 CPU)	5.7	0.078	0.078	M&D Blackbird 10-25-2001
33.	Dell Precision Workstation 620	P3 Xeon (256KB L2) (1,000 MHz) (2 CPUs)	5.7 beta 3	0.080	0.079	1 processor used
34.	Dell Precision Workstation 330	P4 (1,500 MHz) (1 CPU)	5.7 beta 3	0.081	0.073	60% faster than 5.6.2
35.	IBM Thinkpad 570E	Pentium III (500 MHz) (1 CPU)	8.1	0.085	0.083	Pentium 3 Moible Processor 128/64
36.	Dell Precision Workstation 620	P3 Xeon (256KB L2) (1,000 MHz) (2 CPUs)	5.6.2	0.094	0.148	2 processors used
37.	Dell Precision Workstation 420	PIII (866 MHz) (1 CPU)	5.7 beta 3	0.099	0.090	i840 chipset, 512MB PC800 ECC RDRAM
38.	intel	pentium (733 MHz) (1 CPU)	6.0	0.100	0.100	
39.	Home built with 512 MB ram/Abit	AMD (1,100 MHz) (1 CPU)	5.5.3	0.105	0.094	Strange behavior, very dependent of memory setting:
40.	HP Visualize X-Class	PIII	5.6.2	0.110	0.190	2 processors

	A 1280	(866 MHz) (2 CPUs)				
41.	Dell Precision620	P3 Xeon (866 MHz) (2 CPUs)	6.0	0.114	0.107	
42.	Dell Precision Workstation 420	PIII (256 KB L2) (993 MHz) (2 CPUs)	5.6.2	0.120	0.168	Windows 2000 (SP1), 1GB Memory
43.	HP XU800	Intel PIII (866 MHz) (2 CPUs)	5.7.1	0.120	0.120	
44.	HP Visualize X-Class A1280	PIII (733 MHz) (2 CPUs)	5.6.2	0.120	0.180	
45.	DELL Precision 620	PIII XEON (800 MHz) (2 CPUs)	5.6.2	0.120	0.180	Used both processors
46.	Intergraph Zx10	PIII (733 MHz) (2 CPUs)	5.6.1 NT4S	0.129	0.195	2 cpu
47.	Local Vendor	AMD Athlon (800 MHz) (1 CPU)	5.5.1	0.130	0.110	University High Option
48.	Dell PowerEdge 6800	Intel Xeon Duo Core (3,400 MHz) (2 CPUs)	11.0	0.130	0.140	
49.	Compaq AP550	PIII (733 MHz) (2 CPUs)	5.6.1	0.130	0.200	Used both processors, NT4 SP5, m=768, db=128
50.	Dell Precision Workstation 330	P4 (1,500 MHz) (1 CPU)	5.6.2	0.131	0.117	
51.	Dell Precision Workstation 620	P3 Xeon (256KB L2) (1,000 MHz) (2 CPUs)	5.6.2	0.136	0.133	1 processor used
52.	Home built	Pentium III (800 MHz) (2 CPUs)	5.6.2	0.140	0.220	1 GB RAM Running WIN 2K
53.	Built In-House	P-III (650 MHz) (2 CPUs)	5.6.2 NT	0.143	0.220	cost ~\$4k 9 months ago - 1.5GGB RAM, 2 10kRPM Ultra160 SCSI drives in RAID0 on single channel 80Mb/s controller - run with nproc,2, -m 768, -db 128
54.	Dell Precision 620	P3 - Xeon (1,000 MHz) (1 CPU)	5.6.1	0.144	0.135	
55.	Home built	AMD (700 MHz) (1 CPU)	5.5.3	0.149	0.135	\$850 PC excl. monitor.
56.	HP Visualize X-Class A1280	PIII (866 MHz) (2 CPUs)	5.6.2	0.150	0.150	1 processor
57.	HP C3600	PA RISC 8500 (552 MHz) (1 CPU)	5.6.1	0.152	0.149	1.5 Gb memory - m=1480 db=512
58.	IBM Intellistation Z Pro	PIII Xeon (1,000 MHz) (1 CPU)	5.6	0.153	0.139	Windows 2000 Sp1
59.	Dell Precision Workstation 420	PIII (866 MHz) (1 CPU)	5.6.2	0.163	0.151	i840 chipset, 512MB PC800 ECC RDRAM
60.	EVTI	P3 (500 MHz) (2 CPUs)	5.7.200010	0.165	0.209	using 2 procs
61.	Peacock Pocida	PIII (600 MHz) (2 CPUs)	5.6.2	0.170	0.280	Win NT4 SP6
62.	EVTI	P3 (500 MHz) (2 CPUs)	5.7.200010	0.173	0.165	using 1 proc
63.	DELL 610	XEON (500 MHz) (2 CPUs)	5.6.2	0.181	0.296	NT4SP5 18 mos into 2 Yr Lease @ \$650/mo
64.	Intergraph Zx10	PIII	5.6.1 NT4S	0.185	0.175	1 cpu

		(733 MHz) (2 CPUs)				
65.	Sun	UltraSPARC II (450 MHz) (2 CPUs)	5.6	0.188	0.246	5x 9 Gb Segate SCSI RAID Level 0 Disk Array
66.	Ashton-Digital	PIII (850 MHz) (1 CPU)	5.6.2	0.190	0.170	Passport 2000 Notebook, Win 2000
67.	HP C3600	PA-RISC (550 MHz) (1 CPU)	5.6.1	0.194	0.170	cost - \$17,011.65 (3-6 months ago) - Unix machine running HP-UX 11.0
68.	HP C3600	PA-RISC 8600 (552 MHz) (1 CPU)	5.6.2	0.196	0.153	HP - UX 11.00
69.	IBM Intellistation Z-Pro	P-II (500 MHz) (2 CPUs)	5.6.2	0.200	0.310	NT4 SP5
70.	HP J5600	PA-RISC 8600 (552 MHz) (2 CPUs)	5.6.2	0.204	0.154	Used one processor
71.	HP Visualize X-Class A1280	PIII (733 MHz) (2 CPUs)	5.6.2	0.204	0.255	Win 2000. Machine is identical in every other way to the above HP Visualize that has win nt 4.0. Additionally, this win 2000 machine has trouble completing these benchmarks w/o crashing.
72.	HP J5600	PA-RISC 8600 (552 MHz) (2 CPUs)	5.6.2	0.205	0.154	Used both processor
73.	HP	Xeon (2,800 MHz) (1 CPU)	6.0	0.206	0.019	
74.	Intergraph	XEON (450 MHz) (2 CPUs)	5.6.2	0.215	0.332	Purchased 01/99 @ \$14,300
75.	EVTI	P3 (500 MHz) (2 CPUs)	5.6.2NT	0.225	0.340	using both procs
76.	Dell Inspiron 7500	PIII (Coppermine) (500 MHz) (1 CPU)	5.6.1	0.227	0.223	Dell Laptop NT4.0 SP5 Ran Interactivly
77.	HP	3600 PA-RISC (785 MHz) (1 CPU)	5.6.2	0.229	0.159	HP-UX 10.2 - I am uncertian about the MHz. The uname -m command produces 9000/785
78.	Dell Optiplex GX110	P-III (733 MHz) (1 CPU)	5.6.1	0.230	0.225	Current cost \$2500.00. PC NT4SP6. Please remove the prior database entry with times of 0.06 for wall and CPU.
79.	Compaq	Intel (900 MHz) (1 CPU)	5.6.2	0.240	0.220	
80.	HP c360	pa-8500 (360 MHz) (1 CPU)	5.6.1	0.250	0.240	
81.	Compaq	Intel (900 MHz) (2 CPUs)	5.6.2	0.250	0.350	
82.	DELL 610	XEON (500 MHz) (1 CPU)	5.6.2	0.271	0.268	NT4SP5 18 mos into 2 Yr Lease @ \$650/mo
83.	EVTI	PIII (500 MHz) (2 CPUs)	5.6.2NT	0.273	0.261	
84.	IBM Intellistation Z-Pro	P-II (500 MHz) (1 CPU)	5.6.2	0.290	0.270	NT4 SP5
85.	Intergraph GX-1	XEON (450 MHz) (1 CPU)	5.6.2	0.311	0.298	Dual Processor, Purchased 01/99 @ \$14,300
86.	SGI Octane	R12000 (300 MHz) (1 CPU)	5.6.1	0.320	0.290	Recently upgraded from R10000. Interactive had same CPU time but .42 wall.
87.	Dell 4000	PIII (500 MHz)	5.6.2	0.320	0.290	

		(1 CPU)				
88.	Intergraph TDZ2000 GL2	P-II (450 MHz) (2 CPUs)	5.6.2	0.330	0.320	NT4 SP6
89.	Dell	P III (500 MHz) (2 CPUs)	5.6	0.330	0.320	
90.	Sun Microsystems	Ultra Iie (450 MHz) (1 CPU)	5.7	0.346	0.350	
91.	Compaq Deskpro	P3 (500 MHz) (1 CPU)	5.6 ED	0.378	0.334	
92.	Sun Ultra_10 workstation	ItraSPARC Iii (333 MHz) (1 CPU)	5.6	0.394	0.354	
93.	Home-grown	P-III (450 MHz) (1 CPU)	5.6.2 W98	0.460	0.460	
94.	IBM	P 3 (650 MHz) (1 CPU)	5.6.2	0.465	0.442	T20 Laptop
95.	Compaq Deskpro	P3 (500 MHz) (1 CPU)	5.6.2	0.466	0.416	
96.	HP	HP (400 MHz) (1 CPU)	5.5	0.500	0.250	
97.	IBM	PII (300 MHz) (1 CPU)	5.6 NT	0.560	0.520	
98.	SGI IndigoII	R10000 (195 MHz) (1 CPU)	5.6.2	0.764	0.515	
99.	SGI Octane	R10000 (250 MHz) (2 CPUs)	5.6.2	0.785	0.305	Solution would sporadically stall. Probably not valid.
100.	Intergraph TDZ-410	P-II (200 MHz) (1 CPU)	5.6	0.930	0.910	512 Mb Ram

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

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