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ANSYS Benchmark #7: Results List

Large Model Test

Simulation Details: A bolt holds 2 plates together with contact [friction] used between all parts. After preload is established, a fixed displacement is applied to one plate forcing it to slide relative to the other plate until the bolt hole clearance is closed.

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

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Index	Computer Mfr.	Processor Sockets	Processor Cores	ANSYS Version	OS	Wall Time (Hrs)	CPU Time (Hrs)	Notes
1.	EV Custom	1	6	14.0	Win 7x64	0.467	2.306	i7-3930k @4.0GHz (overclocked), 32 GB 2133MHz Ram; 104 iterations; nproc = 6, EV 4/3/2012
2.	PADT CUBE HVPC w12i	2	6	14.0	Win7x64	0.776	3.503	GPU: 2x Intel Xeon e5-2620 @2GHz, 64GB RAM, 119 total iterations, Nvidia TESLA C2075, DRJM 10/2/2012
3.	HP Z800	2	6	14.0	Win 7x64	0.960	4.540	GPU: 2x Xenon X5680 @ 3.33GHz, 48 GB DDR3 RAM, NVIDIA C2075 GPU, 141 iterations, RPA 2/2012
4.	HP Z800	2	8	14.0	Win 7x64	0.980	6.140	GPU: 2x Xenon X5680 @ 3.33GHz, 48 GB DDR3 RAM, NVIDIA C2075 GPU, 144 iterations, RPA 2/2012
5.	HP Z800	2	4	14.0	Win 7x64	1.030	3.400	GPU: 2x Xenon X5680 @ 3.33GHz, 48 GB DDR3 RAM, NVIDIA C2075 GPU, 137 iterations, RPA 2/2012
6.	HP Z800	2	6	14.0	Win 7x64	1.190	6.170	2x Xenon X5680 @ 3.33GHz, 48 GB DDR3 RAM, 140 iterations, RPA 2/2012
7.	HP Z800	2	2	14.0	Win 7x64	1.210	2.180	GPU: 2x Xenon X5680 @ 3.33GHz, 48 GB DDR3 RAM, NVIDIA C2075 GPU, 144 iterations, RPA 2/2012
8.	PADT CUBE HVPC	1	4	14.0	Win 7x64	1.240	4.470	INTEL XEON w3550 @ 3.2GHz, 24 GB DDR3 1333 RAM, 124 iterations, 6/6/2012 DRJM
9.	HP Z800	2	8	14.0	Win 7x64	1.240	8.490	2x Xenon X5680 @ 3.33GHz, 48 GB DDR3 RAM, 144 iterations, RPA 2/2012
10.	PADT CUBE HVPC	2	2	13.0 SP2	Win 7x64	1.386	2.567	GPU: 2x Intel Xeon x5690 @3.47GHz, 144GB RAM, 124 total iterations, GPU Solve Option Only Quadro 6000, DRJM 11/9/2011
11.	HP Z800	2	4	14.0	Win 7x64	1.440	5.160	2x Xenon X5680 @ 3.33GHz, 48 GB DDR3 RAM, 137 iterations, RPA 2/2012
12.	PADT CUBE HVPC	2	2	13.0 SP2	Win 7x64	1.523	2.821	2x Intel Xeon x5690 @3.47GHz, 144GB RAM, 135 total iterations, -np=2, GPU Assist Option w/SMP, Nvidia Quadro 6000, LANB, SPAR, DRJM 11/8/2011
13.	RCM Custom	1	2	13.0 SP2	Vista 64	1.564	2.982	Intel i7-2600K @3.40GHz, 16GB DDR3-1333, 145 iterations, nproc =2, RCM 08/02/2012
14.	PADT CUBE HVPC w8i	2	2	14.0	Win 7x64	1.698	3.212	2x Intel Xeon x5647 @ 2.93GHz, 96GB RAM, 126 total iterations, -np 2, SMP, DRJM 2/20/2012
15.	Dell Precision T5500	1	4	13.0	Vista 64	1.699	6.073	Intel Xeon E5520 @ 2.6GHz, 12GB RAM, 124 total iterations. -np=4 RS 10/6/2011
16.	PADT CUBE HVPC	2	2	13.0 SP2	Win 7x64	1.711	3.270	2x Intel Xeon x5690 @3.47GHz, 144GB RAM, 124 total iterations, -np=2, LANB, SPAR, DRJM 11/7/2011
17.	KRONOS S900	2	2	13.0	Win 7x64	1.760	3.350	2x Intel Xeon x5690 (overclocked) @ 4.37GHz, 48GB RAM, 151 total iterations, -np=2, PCG, JJ 10/26/2011
18.	PADT CUBE HVPC	2	4	13.0 SP2	Linux 64	1.830	6.596	2x Intel Xeon x5560 @ 2.83GHz, 32GB RAM, 144 total iterations, -np=4,SMP, DRJM 10/4/2011
19.	HP Z800	2	2	14.0	Win 7x64	1.920	3.640	2x Xenon X5680 @ 3.33GHz, 48 GB DDR3 RAM, 147 iterations, RPA 2/2012 Xenon X5680 @ 3.33GHz, 48 GB DDR3 RAM, 147 iterations, RPA 2/2012 Xenon X5680 @ 3.33GHz, 48 GB DDR3 RAM, 147 iterations, RPA 2/2012
20.	PADT CUBE HVPC	2	2	13.0 SP2	Linux 64	2.006	3.788	2x Intel Xeon x5560 @ 2.83GHz, 32GB RAM, 125 total iterations, -np=2, SMP, DRJM 10/4/2011
21.	Dell Precision T3500	1	6	12.1	Win 7x64	2.071	3.735	Intel Xeon 6 cores, Samsung SSD PM800 2.5" 238 GB -RDB 9/22/2010

22.	PADT CUBE HVPC	1	2	14.0	Win 7x64	2.090	3.940	AMD A8 3870 (overclocked) @ 3.4GHz, 8GB RAM, 135 total iterations, -np 2, SMP, DRJM 2/17/2012, stock overclocked to 3.4GHz
23.	Lenovo D20	2	2	12.0	Vista 64	2.100	3.980	2x Xeon X5570 @ 2.93 GHz, 118 total iterations, -np=2, -m=4000, OS Performance Settings set to "Best Performance" - RA 10/2009
24.	Dell Precision T5500	1	4	13.0	Vista 64	2.138	4.028	Intel Xeon E5520 @ 2.6GHz, 12GB RAM, 124 total iterations. RS 10/4/2011
25.	Lenovo D20	2	2	12.0	Vista 64	2.340	4.430	2x Xeon X5570 @ 2.93 GHz, 135 total iterations, -np=2, -m=4000, RA 10/2009 This ran slightly faster than V11 SP1 (below), but also has 8 fewer iterations. I wish we had the ability to use more cores than the 2 that come with the standard license!
26.	PADT	2	8	11.0	Suse	2.397	12.211	2x Xeon 3.2Ghz Santa Rosa, 1600MHz FSB (test chips), 16Gb RAM, pcg solver, Suse (2.6.18.8-0.7-default-smp), 106 iterations total, -np8 -lm -m 20000 -db 4000
27.	PADT CUBE HVPC w12i	2	2	14.0	Win7x64	2.589	4.879	2x Intel Xeon e5-2620 @2GHz, 64GB RAM, 190 total iterations, -np=2, PADT 10/2/2012
28.	Lenovo D20	2	2	11.0	Vista 64	2.590	4.920	2x Xeon X5570 @ 2.93 GHz, 146 total iterations, -np=2, -m=4000, RA 7/2009
29.	DELL Precision T5500	1	2	13.0 SP2	Win 7x64	2.843	5.358	INTEL XEON e5506 @2.13GHz, 24 GB 1333 RAM, 137 iterations, nproc = 2, RCM 08/02/2012
30.	PADT CUBE HVPC	2	6	13.0 SP2	Linux 64	2.850	2.855	2x Intel Xeon E5504 @ 2.0GHz, 16GB RAM, 134 total iterations, -np=6, MPP, DRJM 10/10/2011
31.	HP Xw8600	2	8	11.0	Suse	3.131	11.279	2x Xeon E5440 2.0GHz 6Mb L2 Cache, 64Gb RAM, pcg solver, Suse (2.6.18.8-0.7-default-smp), 144 iterations total, -np8 -lm -m 20000 -db 4000
32.	HP Xw8600	2	8	11.0	Suse	3.324	11.913	2x Xeon E5440 2.0GHz 6Mb L2 Cache, 64Gb RAM, sparse solver, Suse (2.6.18.8-0.7-default-smp), 155 iterations total, -np8 -lm -m 20000 -db 4000
33.	Dell Precision M6500	2	8	13.0	XP SP3	3.415	5.884	2x Intel i7 720QM Processor @ 1.6 GHz, 111 Total Iterations - RA 3/31/2011
34.	Dell Precision 690	2	2	11.0	XP64	3.530	9.500	DualXEON-2Ghz,16GB Ram. PCG 1bisection.
35.	PADT	2	8	11.0	Suse	3.554	13.574	2x Xeon 3220, 32Gb RAM, sparse solver, Suse 9 (2.6.18.8-0.01-default-smp), 129 iterations total, -np8 -lm -m 20000 -db 4000
36.	PADT	1	4	11.0	x64	3.740	10.504	Core 2 Quad, Q6600, 8Gb RAM, pcg solver, x64, 139 iterations total, -np4 -m 6000 -db 1000, RocketRaid 2310 w/ 2x 150Gb Raptors
37.	Lenovo S10	1	2	11.0	Vistax64	3.820	7.260	Core 2 Duo E6850 - 3 GHz, 140 total iterations, pcg solver, -m 5000, -db 1000, System cost ~\$3600 in 11/2008, RA 6/2009
38.	PADT	2	8	11.0	Suse	3.879	20.102	2x Xeon 3220, 32Gb RAM, pcg solver, Suse 9 (2.6.18.8-0.01-default-smp), 129 iterations total, -np8 -lm -m 20000 -db 4000
39.	PADT	2	4	11.0	Suse	3.898	9.768	2x Xeon 5148 2.33GHz 4Mb L2 Cache, 8Gb RAM, sparse solver, Suse (2.6.18.8-0.3-default-smp), 122 iterations total, -np4 -m 20000 -db 4000
40.	Dell PWS490	2	2	11.0	XP 64	4.030	7.730	Run in batch mode on Dell WPS 490, CPU is Intel Xeon 5150 at 2.66GHz, 16GB of RAM. Execution parameters: -b -m 8000 -db 1024 -np 2. Solution with 124 subiterations.
41.	Custom made	2	2	11.0	W2003x64	4.040	7.820	Tyan Thunder H2000M, 32 GB (16x2 GB), 2x Opteron 2222, 2x 300GB SAS 15000 RPM as RAID 0, 119 iterations total, PCG Solver, ANSYS 11.0 linked against AMD ACML library instead of Intel MKL
42.	PADT	1	4	11.0	x64	4.051	10.649	Core 2 Quad, Q6600, 8Gb RAM, sparse solver, x64, 136 iterations total, -np4 -m 6000 -db 1000, RocketRaid 2310 w/ 2x 150Gb Raptors
43.	Dell Precision 490	2	2	11.0	XP 64	4.060	7.760	Run from product launcher in batch. SMP used with 2 processors, -m 10000, -db 50, 126 total iterations. 2x Xeon 5150 2.66 GHz, 16 Gb DDR2 667 MHz, SAS 10000 rpm HDD.
44.	HP Xw8600	2	8	11.0	Suse	4.150	20.884	2x Xeon E5440 2.0GHz 6Mb L2 Cache, 64Gb RAM, pcg solver, Suse (2.6.18.8-0.7-default-smp), 151 iterations total, -np8 -lm -m 20000 -db 4000
45.	PADT	2	4	11.0	Suse	4.269	11.802	2x Xeon 5148 2.33GHz 4Mb L2 Cache, 8Gb RAM, pcg solver, Suse (2.6.18.8-0.3-default-smp), 147 iterations total, -np4 -m 20000 -db 4000
46.	PADT CUBE HVPC	2	6	13.0 SP2	Linux 64	4.284	22.637	2x Intel Xeon x5560 @ 2.83GHz, 32GB RAM, 358 total iterations, -np=6, SMP, DRJM 10/4/2011
47.	Opteron 2218 on Tyan	2	4	10.0	XP-64	4.310	14.740	I did not run it in batch mode. I just read in the bench07.mac. File->Read Input From -> bench07.mac

ANSYS Benchmark #7: Results List

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48.	Custom made	2	2	11.0	W2003x64	4.780	9.150	Tyan Thunder H2000M, 32 GB (16x2 GB), 2x Opteron 2222, 2x 300GB SAS 15000 RPM as RAID 0, 140 Iterations total, PCG Solver
49.	PADT CUBE HVPC	2	8	13.0 SP2	Linux 64	5.187	36.404	2x Intel Xeon x5560 @ 2.83GHz, 32GB RAM, 420 total iterations, -np=8, SMP, DRJM 10/4/2011
50.	HP XW8600	2	8	11.0	XP 64	5.430	10.440	2x Xeon E5440 @ 2.83 GHz, 6GB RAM, 149 iterations, pcg solver, 149 iterations, SMP used with 2 processors, -m 4000 -db 1000
51.	PADT	2	2	10.0	SuSE 9.3	7.241	14.425	2x Opteron 248, 2.8Gb RAM, /config,nproc,2, pcg solver, Suse 9.3 (2.6.11.4-21.9-smp), Tyan S2875, onboard Raid 0 w/ 2x WD1200JD, 138 iterations total
52.	SGI ALTIX 350	1	1	11.0	SLES 10	7.700	7.690	Batch-mode, Standard run, 1xItanium2 (1.5 GHz, 6 MB cache)
53.	PADT	2	2	11.0	SuSE 9.3	8.008	7.993	2x Opteron 248, 2.8Mb RAM, -np 2 -m 5000 -db 100, pcg solver, Suse 9.3 (2.6.11.4-21.9-smp), Tyan S2875, onboard Raid 0 w/ 2x WD1200JD
54.	HP XW8200	2	2	11.0	XP 32	8.770	16.110	3600 MHz processors, 4GB RAM. Default solve settings
55.	Dell Precision 370	1	1	10.0	XP SP2	9.500	8.600	P4 3.6GHz 2Gb RAM 2 x 74GB WD 10K SATA HDD Default benchmark (PCG)
56.	HP XW 8200	2	1	10.0	XP64	10.200	9.700	standard settings for solver etc. from input file with medium load for rest of system (harddisk etc.)
57.	HP C8000	4	1	11.0	HP UX 11	10.260	10.240	-m 16000, -db 1600, 1 bisect, CUM Iter 133, Ansys 11.0 (not SP1)
58.	PADT	2	2	10.0	SuSE 9.3	10.490	10.483	2x Opteron 248, 2.8Gb RAM, -np 2, local distributed pcg solver, Suse 9.3 (2.6.11.4-21.9-smp), Tyan S2875, onboard Raid 0 w/ 2x WD1200JD, 121 iterations total
59.	Dell Precision 470	1	1	10.0	RHEL 3	13.700	12.960	3.2 GHz Xeon EMT64, 4Gb RAM, 1x10Krpm SATA, 1x 7.2Krpm SATA, RH Enterprise Linux WS-3 64Bit. Default benchmark (PCG)
60.	HP C530	1	1	11.0	XP-32	16.200	14.700	P4-3ghz. 4gb ram. 3 bi-sections. Abrupt contact status.
61.	HP XW8200	2	1	11.0	XP 32	17.180	16.640	3600 MHz processors, 4GB RAM. Default solve settings
62.	HP Proliant ML310	1	1	10.0	Windows	17.833	9.275	Pentium P4, 2.8Ghz, 2.5Gb RAM

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