



OMPL2001 Result

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Hewlett-Packard DL585 G2

SPECompLpeak2001 = 102283
SPECompLbase2001 = 99907

SPEC license #HPG0001 | Tested by: Hewlett-Packard | Test site: Hewlett-Packard, Houston | Test date: Feb-2007 | Hardware Avail: Sep-2006 | Software Avail: Aug-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
311.wupwise_l	9200	1118	131699	1035	142212
313.swim_l	12500	2382	83972	2364	84614
315.mgrid_l	13500	1764	122426	1764	122426
317.applu_l	13500	4963	43518	4827	44752
321.equake_l	13000	2721	76448	2632	79016
325.apsi_l	10500	2634	63784	2634	63784
327.gafort_l	11000	1505	116948	1505	116948
329.fma3d_l	23500	4535	82906	4245	88572
331.art_l	25000	1124	356000	1124	356000

Hardware

CPU: AMD Opteron (TM) 8220SE
 CPU MHz: 2800
 FPU: Integrated
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip
 CPU(s) orderable: 2,4 chips
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 1 MB I + D on chip per core
 L3 Cache: None
 Other Cache: None
 Memory: 32 GB (16x2 GB PC2-5300P CL5)
 Disk Subsystem: 1x72 GB 10 K SAS
 Other Hardware: None

Software

OpenMP Threads: 8
 Parallel: OpenMP
 Operating System: RedHat Enterprise Linux 4.0 Advanced Server for AMD64/EM64T, Update 4, Kernel 2.6.9-42.ELsmp
 Compiler: QLogic PathScale Compiler Suite, Release 2.5
 File System: ext2
 System State: Multi-user run level 3

Notes/Tuning Information

User environment:
 export PSC_OMP_STATIC_FAIR=TRUE
 export PSC_OMP_THREAD_SPIN=1000000000
 export PSC_OMP_AFFINITY=TRUE
 export OMP_DYNAMIC=FALSE
 export OMP_NUM_THREADS=8
 ulimit -s unlimited
 chkconfig --levels 12345 cpuspeed off
 DL585 G2 BIOS version A07 - 12/02/2006

Baseline optimization flags:

C programs: -Ofast -mp
 Fortran programs: -Ofast -OPT:early_mp=on -mcmmodel=medium -mp

Peak optimization flags:

311.wupwise_l: -mp -Ofast -mssse3 -LNO:prefetch Ahead=5:prefetch=3
 -OPT:unroll_times_max=8:unroll_size=128:IEEE_NaN_Inf=off:ro=3
 -IPA:linear=on:plimit=50000:callee_limit=5000 -INLINE:aggressive=on
 313.swim_l: -mp -O3 -OPT:Ofast -m3dnow -mcmmodel=medium -LNO:simd=0
 315.mgrid_l: basepeak=yes
 317.applu_l: -mp -Ofast -mcmmodel=medium -CG:local_fwd_sched=on
 -LNO:fusion=2:fission=2:full_unroll_size=10000:prefetch=3 -TENV:X=3
 321.equake_l: -Ofast -mp -OPT:alias=disjoint
 325.apsi_l: basepeak=yes
 327.gafort_l: basepeak=yes
 329.fma3d_l: -mp -O2 -ipa -CG:load_exe=1



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Notes/Tuning Information (Continued)

-OPT:Ofast:early_mp=on:IEEE_arith=3:ro=3 -WOPT:mem_opnds=on:retype_expr=on
-IPA:pu_reorder=1

331.art_1: basepeak=yes

Flags description: HP-20070228-PathScale25.v3.txt