OMPL2001 Result

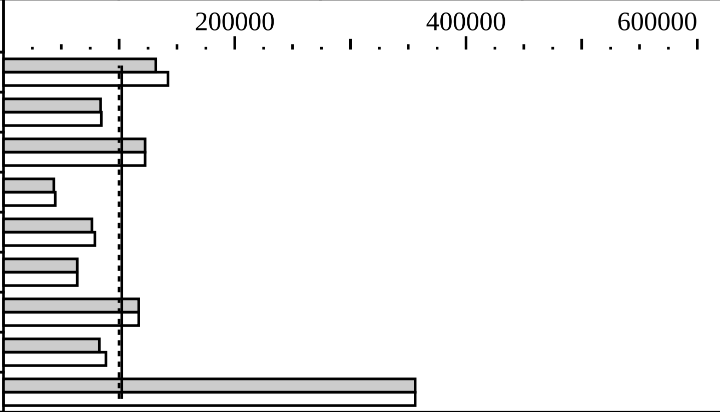
Hewlett-Packard DL585 G2

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 -mcmodel=medium -mp
Peak optimization flags:
   311.wupwise_l: -mp -Ofast -msse3 -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 -mcmodel=medium -LNO:simd=0
   315.mgrid_l:   basepeak=yes
   317.applu_l:   -mp -Ofast -mcmodel=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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SPEC license #: HPG0001	Tested by: Hewlett-Packard	Test site: Hewlett-Packard, Houston	Test date: Feb-2007	Hardware Avail: Sep-2006	Software Avail: Aug-2006

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_l:     basepeak=yes
   Flags description:  HP-20070228-PathScale25.v3.txt
```