OMPL2001 Result

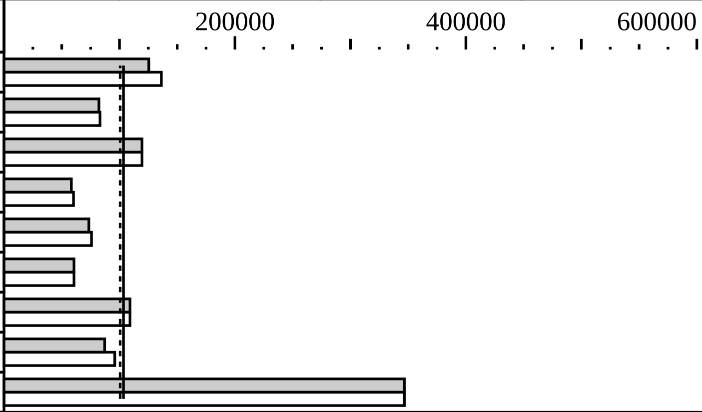
Sun Microsystems
Sun Fire X4600 M2

SPECompLpeak2001 = 103466

SPECompLbase2001 = 100610

SPEC license #: HPG0010	Tested by: Sun Microsystems, Santa Clara	Test site: Menlo Park	Test date: Mar-2007	Hardware Avail: Oct-2006	Software Avail: Aug-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
311.wupwise_l	9200	1174	125397	1080	136267
313.swim_l	12500	2432	82221	2405	83153
315.mgrid_l	13500	1807	119515	1807	119515
317.applu_l	13500	3703	58338	3588	60195
321.equake_l	13000	2830	73485	2745	75769
325.apsi_l	10500	2771	60623	2771	60623
327.gafort_l	11000	1613	109124	1613	109124
329.fma3d_l	23500	4313	87172	3920	95919
331.art_l	25000	1154	346714	1154	346714



Hardware

CPU:	AMD Opteron (TM) 8220
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	8 cores, 4 chips, 2 cores/chip
CPU(s) orderable:	4,8 (order by number of chips)
Primary Cache:	64KBI + 64KBD (on chip) per core
Secondary Cache:	1024KB (I+D) (on chip) per core
L3 Cache:	None
Other Cache:	None
Memory:	32GB (16x2GB, DDR2-667 CL5 ECC Registered)
Disk Subsystem:	SAS, 73GB, 10K RPM
Other Hardware:	None

Software

OpenMP Threads:	8
Parallel:	OpenMP
Operating System:	Red Hat Enterprise Linux AS release 4 Update 5
Compiler:	QLogic PathScale Compiler Suite, Release 2.5
File System:	ext2
System State:	Multi-user run level 3

Notes/Tuning Information

```
User environment:
export OMP_DYNAMIC=FALSE
export OMP_NUM_THREADS=8
ulimit -s unlimited

Default BIOS settings used.

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
                -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
```

Notes/Tuning Information (Continued)

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For a description of PathScale v2.5 compiler flags, portability flags
and system parameters used to generate this result, please refer to
SUN-20070403-PathScale2.5-Linux-opteron.txt file in the flags directory.
```