



OMPL2001 Result

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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	Software
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	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 -mcmmodel=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 -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

-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

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Notes/Tuning Information (Continued)

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.