OMPL2001 Result

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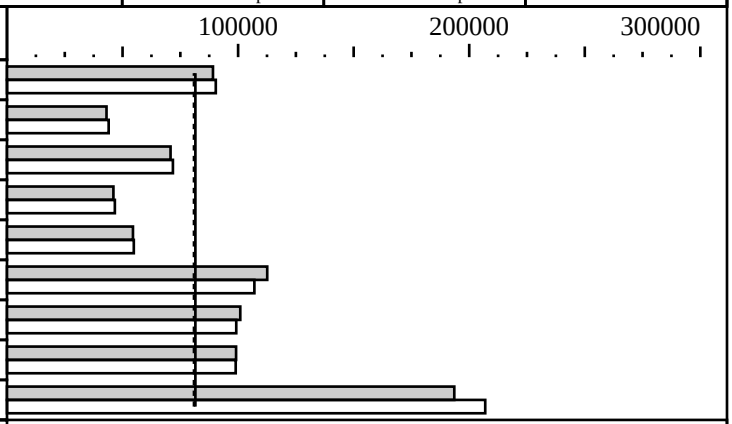
Sun Microsystems
Sun Fire X2250

SPECompLpeak2001 = 81510

SPECompLbase2001 = 80909

SPEC license #: HPG0010	Tested by: Sun Microsystems	Test site: Menlo Park	Test date: Apr-2009	Hardware Avail: Apr-2009	Software Avail: Nov-2008

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
311.wupwise_l	9200	1652	89123	1629	90342
313.swim_l	12500	4645	43058	4547	43989
315.mgrid_l	13500	3052	70765	3009	71788
317.applu_l	13500	4691	46045	4629	46667
321.equake_l	13000	3816	54504	3791	54866
325.apsi_l	10500	1492	112599	1570	107040
327.gafort_l	11000	1744	100935	1774	99196
329.fma3d_l	23500	3793	99121	3800	98956
331.art_l	25000	2067	193539	1933	206927



Hardware

CPU:	Intel Xeon X5482
CPU MHz:	3200
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	12 MB I+D on chip per chip, 6 MB shared / 2 cores
L3 Cache:	None
Other Cache:	None
Memory:	16 GB (4x4GB Dual-rank PC2-6400 CL5-5-5 FB-DIMMs)
Disk Subsystem:	1 x 250 GB SATA 7200 RPM
Other Hardware:	None

Software

OpenMP Threads:	8
Parallel:	OpenMP and Automatic parallel
Operating System:	OpenSolaris 2008.05
Compiler:	Sun Studio Express 11/08
File System:	zfs
System State:	Multi-User

Notes/Tuning Information

```
Compiler Invocation:
  C   : cc
  F90 : f90
  F77 : f90

Base tuning:
  Fortran :  -fast -xpagesize=2M -xmodel=medium -xopenmp
             -xautopar -xipo=2 -xvector=lib -xprefetch -xprefetch_level=3
             -m64 -lmtmalloc
  C       :  -fast -m64 -xmodel=medium -fns=no -xalias_level=layout
             -xdepend=no -xopenmp -lmvec
  ONESTEP=yes

Peak tuning:
 ONESTEP=yes for all peak tests.

 311.wupwise_l   : -fast  -xpagesize=2M -xmodel=medium -xopenmp -xautopar
                   -xipo=2 -xvector=lib -xprefetch -xprefetch_level=3
                   -m64 -lmtmalloc
 313.swim_l      : -fast -xpagesize=2M -xmodel=medium -xopenmp
                   -xautopar -xipo=2 -xvector=lib -xprefetch
                   -xprefetch_level=3 -m64 -lmtmalloc
 315.mgrid_l     : -fast -xpagesize=2M -xmodel=medium -xopenmp -xautopar
                   -xipo=2 -xvector=lib -xprefetch -xprefetch_level=3
                   -m64 -lmtmalloc
 317.applu_l     : -fast -xmodel=medium -xopenmp -xautopar -xipo=2
```

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Notes/Tuning Information (Continued)

```
                  -xvector=lib -xprefetch -xprefetch_level=3 -m64 -lmtmalloc
   321.equake_l   : -fast -xmodel=medium -fns=no -xalias_level=layout
                    -m64 -xdepend=no -xopenmp -lmvec
   325.apsi_l     : -fast -xpagesize=2M -xmodel=medium -xopenmp -xautopar
                    -xipo=2 -xvector=lib-xprefetch -xprefetch_level=3
                    -m64 -lmtmalloc
   327.gafort_l   : -fast -xpagesize=2M -xmodel=medium -xopenmp -xautopar
                    -xipo=2 -xvector=lib -xprefetch -xprefetch_level=3
                    -m64 -lmtmalloc
   329.fma3d_l    : -fast -xpagesize=2M -xmodel=medium -xopenmp -xautopar
                    -xipo=2 -xvector=lib -xprefetch -xprefetch_level=3
                    -m64 -lmtmalloc
   331.art_l      : -fast -xpagesize=2M -xmodel=medium -xopenmp -xautopar
                    -xipo=2 -xvector=lib -xprefetch -xprefetch_level=3
                    -m64 -lmtmalloc
 Extra art allowed flags:
   331.art_l      : -DINTS_PER_CACHELINE=16 -DDBLS_PER_CACHELINE=8

 Base and Peak User Environment:
   export OMP_NUM_THREADS=8
   export SUNW_MP_PROCBIND=TRUE
   export SUNW_MP_THR_IDLE=SPIN
   export OMP_NESTED=FALSE
   export STACKSIZE=16384
   export OMP_DYNAMIC=TRUE
   ulimit -s unlimited

 For a description of Sun Studio 12 Update 1 Compiler flags, portability flags
 and system parameters used to generate this result, please refer to
 SUN-20090504-Studio-Solaris-X86_64.txt file in the flags directory.

 Default BIOS settings used HWP on, ASP on
```