OMPL2001 Result

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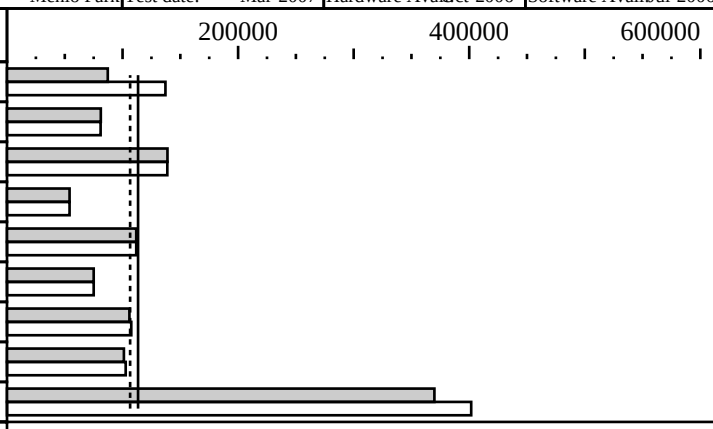
Sun Microsystems
Sun Fire X4600 M2

SPECompLpeak2001 = 113423

SPECompLbase2001 = 106552

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
311.wupwise_l	9200	1688	87204	1074	137113
313.swim_l	12500	2464	81181	2469	81007
315.mgrid_l	13500	1555	138864	1557	138741
317.applu_l	13500	3989	54146	3989	54146
321.equake_l	13000	1860	111841	1860	111841
325.apsi_l	10500	2239	75023	2239	75023
327.gafort_l	11000	1661	105935	1637	107544
329.fma3d_l	23500	3717	101163	3661	102714
331.art_l	25000	1081	369869	996	401707



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:	SCSI, 73GB, 10K RPM
Other Hardware:	None

Software

OpenMP Threads:	8
Parallel:	OpenMP
Operating System:	Solaris 10 6/06
Compiler:	Sun Studio 11 with Patches
File System:	ufs
System State:	Multi-User

Notes/Tuning Information

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

Base tuning:
  Fortran : -fast -xarch=amd64 -xprefetch_level=3 -xvector=simd -xopenmp -xmodel=medium
  C       : -fast -xarch=amd64 -xopenmp -xmodel=medium
  ONESTEP=yes

+FDO:  PASS1= -xprofile=collect:./feedback PASS2= -xprofile=use:./feedback

Peak tuning:
 ONESTEP=yes for all peak tests.

 311.wupwise_l   : -fast -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd -xopenmp -xmodel=medium -lmvec
 313.swim_l      : -fast -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd -xopenmp -xmodel=medium -lmvec
 315.mgrid_l     : -fast -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd -xopenmp -xmodel=medium -lmvec
 317.applu_l     : basepeak=yes
 321.equake_l    : basepeak=yes
 325.apsi_l      : basepeak=yes
 327.gafort_l    : -fast -xpagesize=2m -xipo=2 -xarch=amd64 -xprefetch_level=3 -xvector=simd
                   -xopenmp  -xmodel=medium -lmvec
 329.fma3d_l     : -fast -xpagesize=2m -xipo=2 -xprefetch_level=3 -xarch=amd64 -xopenmp -xmodel=medium +FDO
 331.art_l       : -fast -xpagesize=2m -xipo=2 -xarch=amd64 -xalias_level=std -xopenmp  -xmodel=medium
                   -lmtmalloc -lm
```

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Notes/Tuning Information (Continued)

```
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

The following patches were applied to Sun Studio 11 compiler:
120759-07 : x86/x64
121016-03 : x86 C
121020-03 : x86 F90
121018-03 : x86 C++

For a description of Sun Studio 10 Compiler flags, portability flags
and system parameters used to generate this result, please refer to
SUN-20070403-Studio-Solaris-opteron.txt file in the flags directory.

Default BIOS settings used.
```