OMPL2001 Result

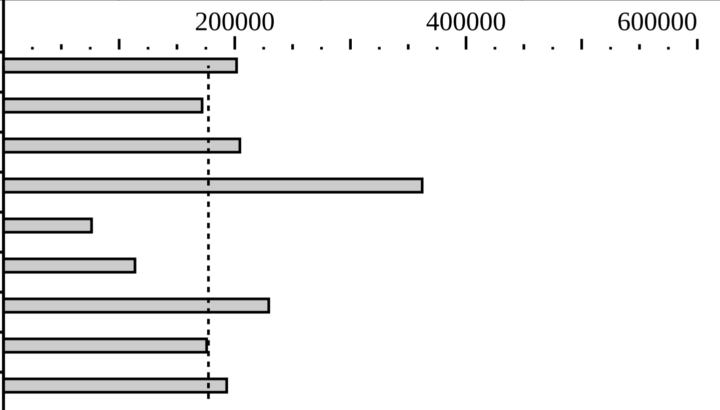
Fujitsu Limited
PRIMEPOWER HPC2500 (1.3GHz)

SPECompLpeak2001 = --

SPECompLbase2001 = 177238

SPEC license #	Tested by:	Test site:	Test date:	Hardware Avail:	Software Avail:
HPG0003	Fujitsu Limited	Numazu, Japan	Oct-2003	Jul-2003	Dec-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
311.wupwise_l	9200	730	201566		
313.swim_l	12500	1165	171740		
315.mgrid_l	13500	1057	204409		
317.applu_l	13500	597	362064		
321.equake_l	13000	2731	76166		
325.apsi_l	10500	1478	113695		
327.gafort_l	11000	767	229393		
329.fma3d_l	23500	2140	175685		
331.art_l	25000	2072	193031		



Hardware

CPU:	SPARC64 V
CPU MHz:	1299
FPU:	Integrated
CPU(s) enabled:	128
CPU(s) orderable:	8 to 128
Primary Cache:	128KBI+128KBD on chip
Secondary Cache:	2MB(I+D) on chip, per CPU
L3 Cache:	None
Other Cache:	None
Memory:	512GB
Disk Subsystem:	1x 36GB Ultra SCSI
Other Hardware:	None

Software

OpenMP Threads:	64
Parallel:	OpenMP
Operating System:	Solaris 8 Fujitsu Parallelnavi 2.3 (NQS etc)
Compiler:	Fujitsu Parallelnavi 2.3 (C & F90)
File System:	ufs
System State:	Multi-user

Notes/Tuning Information

```
Baseline flags:
    C:    -KOMP,fast_GP2=2,V9,hardbarrier
          -x- -Klargepage=2,mfunc,prefetch=2
    F90:  -KOMP,fast_GP2=2,V9,hardbarrier -Klargepage=1,prefetch_line=4
          -Nautoobjstack -O5 -Kprefetch_cache_level=3
Portability Flags:
    329.fma3d_l:   -Am

Extra Flags:
     331.art_l:    -DINTS_PER_CACHELINE=16 -DDBLS_PER_CACHELINE=8

System tunables:
    /etc/system:
        set shmsys:shminfo_shmmax=2147483648
        set shmsys:shminfo_shmmni=256
        set shmsys:shminfo_shmseg=256
        set autoup=172800
        set memscrub_period_sec=345600
    /etc/opt/FJSVpnrm/lpg.conf:
        JOB=256G,SHMSEGSIZE=2048M
    /etc/opt/FJSVpnrm/cpursc.conf:
        CPU_USE=0,1:0,1
    NQS:
        Per-process data size limit = UNLIMITED
        Per-process permanent file size limit = UNLIMITED
        Per-process memory size limit = 128 gigabytes
```

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Notes/Tuning Information (Continued)

```
        Per-request memory size limit = 128 gigabytes
        Per-process number of cpus limit = 126
        Per-process stack size limit = 4 gigabytes
        Per-process CPU time limit = 2147483646.000
        Execution mode = SImplex
        Jobclass = 0

Submitting the runspec to NQS:
    Run the qsub command with the following sh script.

        cd /spec/omp2001
        OMP_NUM_THREADS=64
        export OMP_NUM_THREADS
        . ./shrc
        runspec --config=Fujitsu --reportable large
```