



OMPL2001 Result

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Fujitsu Limited
PRIMEPOWER HPC2500 (1.3GHz)

SPECompLpeak2001 = --
SPECompLbase2001 = 227370

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
311.wupwise_1	9200	532	276748			
313.swim_1	12500	1041	192127			
315.mgrid_1	13500	969	222858			
317.applu_1	13500	451	479306			
321.quake_1	13000	2294	90673			
325.apsi_1	10500	959	175147			
327.gafort_1	11000	598	294303			
329.fma3d_1	23500	1708	220170			
331.art_1	25000	1439	277879			

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: 96
 Parallel: OpenMP
 Operating System: Solaris 8
 Fujitsu Parallelnavi 2.3 (NQS etc)
 Fujitsu Parallelnavi 2.3 (C & F90)
 Compiler:
 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_1: -Am

Extra Flags:

331.art_1: -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/FJSVpnm/lpg.conf:
  JOB=256G,SHMSEGSIZE=2048M
/etc/opt/FJSVpnm/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=96
export OMP_NUM_THREADS
. ./shrc
runspec --config=Fujitsu --reportable large
```