



OMPM2001 Result

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Fujitsu Limited
PRIMEPOWER2000 (563MHz)

SPECompMpeak2001 = --
SPECompMbase2001 = 16454

SPEC license #HPG0003 | Tested by: Fujitsu Limited | Test site: | Test date: Jun-2001 | Hardware Avail: Feb-2001 | Software Avail: Sep-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	204	29354			
312.swim_m	6000	257	23325			
314.mgrid_m	7300	455	16051			
316.applu_m	4000	105	38107			
318.galgel_m	5100	1022	4989			
320.earthquake_m	2600	198	13145			
324.apsi_m	3400	118	28811			
326.gafort_m	8700	354	24595			
328.fma3d_m	4600	495	9286			
330.art_m	6400	405	15815			
332.ammp_m	7000	836	8374			

Hardware

CPU: SPARC64 GP
 CPU MHz: 563
 FPU: Integrated
 CPU(s) enabled: 98
 CPU(s) orderable: 8 to 128
 Primary Cache: 128KBI+128KBD on chip
 Secondary Cache: 8MB(I+D) off chip, per CPU
 L3 Cache: None
 Other Cache: None
 Memory: 128GB
 Disk Subsystem: 2 x 18.2GB SCSI (10025rpm)
 Other Hardware: None

Software

OpenMP Threads: 96
 Parallel: --
 Operating System: Solaris 8 - 6/00
 Fujitsu Parallelnavi 1.0.2
 (NQS, CPU scheduler, largepage)
 Compiler: Fujitsu Parallelnavi 1.0.2 (C, F90)
 File System: ufs
 System State: Multi-user

Notes/Tuning Information

Baseline flags:

C: -KOMP,largepage -Kfast_GP=2,V9FMADD -x-
 F90: -KOMP,largepage -Kfast_GP=2,V9FMADD -Nautoobjstack -Knogs

Portability Flags:

318.galgel_m: -Am -Fixed -w
 328.fma3d_m: -Am

Extra Flags:

330.art_m: -DINTS_PER_CACHELINE=16 -DDBLS_PER_CACHELINE=8

System tunables:

```
/etc/system:
  set shmsys:shminfo_shmmax=268435456
  set shmsys:shminfo_shmmni=4096
  set shmsys:shminfo_shmseg=4096
```

```
/etc/opt/FJSVpnrmlpg.conf:
  JOB=32G,SHMSEGSIZE=256M
```

```
/etc/opt/FJSVpnrmlcpursc.conf:
  CPU_USE=0-1:0-1
```

NQS:

Per-process data size limit = 40 gigabytes



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Notes/Tuning Information (Continued)

Per-process permanent file size limit = 1 gigabytes
Per-process memory size limit = 40 gigabytes
Per-request memory size limit = 32 gigabytes
Per-process number of cpus limit = 126
Per-process stack size limit = 4 gigabytes
Per-process CPU time limit = 453600.000
Execution mode = SImplex
Jobclass = 0

Submitting the runspec to NQS:

Run the qsub command with the following sh script.

```
cd /kaiser2/kit27
./shrc
OMP_NUM_THREADS=96
export OMP_NUM_THREADS
runspec --config=Fujitsu_PP2000_096 --reportable medium
```