



# OMPM2001 Result

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Fujitsu Limited  
PRIMEPOWER2000 (563MHz)

SPECompMpeak2001 = --  
SPECompMbase2001 = 18534

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	169	35485			
312.swim_m	6000	208	28888			
314.mgrid_m	7300	423	17272			
316.applu_m	4000	87.5	45720			
318.galgel_m	5100	1076	4740			
320.earthquake_m	2600	183	14235			
324.apsi_m	3400	79.8	42608			
326.gafort_m	8700	310	28069			
328.fma3d_m	4600	532	8647			
330.art_m	6400	381	16809			
332.ammp_m	7000	750	9337			

### Hardware

CPU: SPARC64 GP  
 CPU MHz: 563  
 FPU: Integrated  
 CPU(s) enabled: 128  
 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: 126  
 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=126
export OMP_NUM_THREADS
runspec --config=Fujitsu_PP2000_126 --reportable medium
```