



OMP2001 Result

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Fujitsu Limited
PRIMEPOWER2000 (563MHz)

SPECompMpeak2001 = --
SPECompMbase2001 = 4912

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 | 1080 | 5555 | | | |
| 312.swim_m | 6000 | 1211 | 4954 | | | |
| 314.mgrid_m | 7300 | 1322 | 5520 | | | |
| 316.applu_m | 4000 | 435 | 9195 | | | |
| 318.galgel_m | 5100 | 1170 | 4359 | | | |
| 320.earthquake_m | 2600 | 735 | 3539 | | | |
| 324.apsi_m | 3400 | 439 | 7746 | | | |
| 326.gafort_m | 8700 | 1680 | 5178 | | | |
| 328.fma3d_m | 4600 | 1210 | 3803 | | | |
| 330.art_m | 6400 | 1685 | 3798 | | | |
| 332.ammp_m | 7000 | 2174 | 3219 | | | |

Hardware

CPU: SPARC64 GP
 CPU MHz: 563
 FPU: Integrated
 CPU(s) enabled: 18
 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: 16
 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/FJSVpnm/lpg.conf:
JOB=32G,SHMSEGSIZE=256M
```

```
/etc/opt/FJSVpnm/cpursc.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=16
export OMP_NUM_THREADS
runspec --config=Fujitsu_PP2000_016 --reportable medium
```