



OMPL2001 Result

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Hewlett-Packard Company
HP Superdome 32-way (875MHz PA-8700+)

SPECompLpeak2001 = 81229
SPECompLbase2001 = 77787

SPEC license #HPG0001 | Tested by: Hewlett-Packard Company | Test site: Richardson, Texas | Test date: Jul-2002 | Hardware Avail:Jun-2002 | Software Avail:Jun-2002

| Benchmark | Reference Time | Base Runtime | Base Ratio | Peak Runtime | Peak Ratio |
|---------------|----------------|--------------|------------|--------------|------------|
| 311.wupwise_1 | 9200 | 1715 | 85827 | 1205 | 122129 |
| 313.swim_1 | 12500 | 2803 | 71350 | 2803 | 71350 |
| 315.mgrid_1 | 13500 | 2569 | 84078 | 2569 | 84078 |
| 317.applu_1 | 13500 | 2962 | 72921 | 2854 | 75673 |
| 321.quake_1 | 13000 | 4000 | 52003 | 4000 | 52003 |
| 325.apsi_1 | 10500 | 3231 | 51996 | 3231 | 51996 |
| 327.gafort_1 | 11000 | 2353 | 74784 | 2353 | 74784 |
| 329.fma3d_1 | 23500 | 4925 | 76350 | 4925 | 76350 |
| 331.art_1 | 25000 | 2224 | 179877 | 2224 | 179877 |

Hardware

CPU: PA-8700+
CPU MHz: 875
FPU: Integrated
CPU(s) enabled: 32
CPU(s) orderable: 4 to 32
Primary Cache: 0.75MB(I) + 1.5MB(D) on chip
Secondary Cache: None
L3 Cache: None
Other Cache: None
Memory: 128GB
Disk Subsystem: 5x9GB Fiberchannel (striped)
1x9GB SCSI disk (root), 28x9GB FC disks (swap)
Other Hardware: 8 cells

Software

OpenMP Threads: 32
Parallel: OpenMP
Operating System: HP-UX 11i TCOE B.11.11.0206.5
Compiler: HP C/ANSI C Compiler v11.11.04
HP Fortran 90 Compiler v2.5.14
HP aC++ Compiler A.03.35

PHSS_26263 ld(1) and linker tools patch
PHSS_25719 LIBCL patch
PHSS_26913 CPSlib patch
PHSS_26792 ANSI C compiler patch
PHSS_26793 +O4/PBO compiler patch
PHSS_27072 Fortran90 compiler patch
PHSS_26952 aC++ -AA runtime libraries
PHSS_24207 libm patch
PHSS_26264 linker startup code

File System: Online JFS
System State: Multi-user

Notes/Tuning Information

User environment:
OMP_NUM_THREADS=32
Kernel Paramters (/stand/system):
maxdsiz 3221225472
maxdsiz_64bit 274877906944
maxssiz 0x10000000
maxssiz_64bit 1073741824
maxtsiz 1073741824
maxtsiz_64bit 4294967296
vps_pagesize 4096
vps_ceiling 16384
dbc_min_pct 10
dbc_max_pct 10
Base:
F90 +O3 +Oall +Ofitacc -Wl,+FPD +Oopenmp
-Wl,-aarchive +Oinfo +DA2.0W +Oloop_unroll=2
aCC +Oall +Oopenmp +Oinfo -Wl,-aarchive +DA2.0W
PASS1_CFLAGS +I
PASS1_LDCFLAGS +I -Wl,-aarchive
PASS2_CFLAGS +P +Ostatic_prediction
PASS2_LDCFLAGS +P +Ostatic_prediction -Wl,-aarchive



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Notes/Tuning Information (Continued)

Peak:

```
311.wupwise_1:  +O3 +Oall +Onofltacc -Wl,+FPD
                 +Oopenmp -Wl,-aarchive +Oinfo +DA2.0W
                 +Oloop_unroll=2 +cat +Oinlinebudget=10000
                 ONESTEP = true
```

```
317.applu_1:    +O3 +Oall +Onofltacc -Wl,+FPD
                 +Oopenmp -Wl,-aarchive +Oinfo +DA2.0W
                 +Oloop_unroll=2 +Ono_ptrs_to_globals
```