



OMPL2001 Result

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Hewlett-Packard Company
HP Superdome 16-way (875MHz PA-8700+)

SPECompLpeak2001 = 44376
SPECompLbase2001 = 42400

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

| Benchmark | Reference Time | Base Runtime | Base Ratio | Peak Runtime | Peak Ratio |
|---------------|----------------|--------------|------------|--------------|------------|
| 311.wupwise_1 | 9200 | 3194 | 46094 | 2194 | 67083 |
| 313.swim_1 | 12500 | 5203 | 38437 | 5203 | 38437 |
| 315.mgrid_1 | 13500 | 4789 | 45102 | 4789 | 45102 |
| 317.applu_1 | 13500 | 5686 | 37989 | 5491 | 39335 |
| 321.quake_1 | 13000 | 6626 | 31390 | 6626 | 31390 |
| 325.apsi_1 | 10500 | 6298 | 26676 | 6298 | 26676 |
| 327.gafort_1 | 11000 | 4318 | 40758 | 4318 | 40758 |
| 329.fma3d_1 | 23500 | 8686 | 43288 | 8686 | 43288 |
| 331.art_1 | 25000 | 4051 | 98746 | 4051 | 98746 |

Hardware

CPU: PA-8700+
 CPU MHz: 875
 FPU: Integrated
 CPU(s) enabled: 16
 CPU(s) orderable: 1 to 16
 Primary Cache: 0.75MB(I) + 1.5MB(D) on chip
 Secondary Cache: None
 L3 Cache: None
 Other Cache: None
 Memory: 64GB
 Disk Subsystem: 5x9GB Fiberchannel (striped)
 1x9GB SCSI disk (root), 28x9GB FC disks (swap)
 Other Hardware: 4 cells

Software

OpenMP Threads: 16
 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=16

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 +Ofltacc -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 +Oinline_budget=10000
                ONESTEP = true
```

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