



OMPM2001 Result

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Hewlett-Packard Company
HP Superdome 64-way (750MHz PA-8700)

SPECompMpeak2001 = --
SPECompMbase2001 = 15243

SPEC license #HPG2116 | Tested by: Hewlett-Packard Company | Test site: | Test date: Oct-2001 | Hardware Avail: Sep-2001 | Software Avail: Dec-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	231	25997			
312.swim_m	6000	193	31093			
314.mgrid_m	7300	424	17203			
316.applu_m	4000	64.1	62395			
318.galgel_m	5100	1188	4293			
320.earthquake_m	2600	242	10763			
324.apsi_m	3400	322	10550			
326.gafort_m	8700	387	22501			
328.fma3d_m	4600	799	5759			
330.art_m	6400	316	20242			
332.ammp_m	7000	752	9308			

Hardware

CPU: PA-8700
 CPU MHz: 750
 FPU: Integrated
 CPU(s) enabled: 64
 CPU(s) orderable: 8 to 64
 Primary Cache: 0.75MBI + 1.5MBD on chip
 Secondary Cache: None
 L3 Cache: None
 Other Cache: None
 Memory: 256GB
 Disk Subsystem: 5x9GB Fiberchannel (striped)
 1x9GB SCSI disk (root), 28x9GB FC disks (swap)
 Other Hardware: 16 cells

Software

OpenMP Threads: 64
 Parallel: --
 Operating System: B.11.11.0109 HP-UX Technical Computing OE Component
 Compiler: B3901BA B.11.11.04 HP C/ANSI C Developer's Bundle for HP-UX 11.1
 B3909DB B.11.11.43 HP Fortran 90 Compiler and associated products
 PHKL_24779 1.0 LVM Cumulative Patch
 PHCO_24584 1.0 Thread Local Storage, Psets Enablement Patch
 PHSS_23441 1.0 ld(1) and linker tools cumulative patch
 PHSS_23794 1.0 linker startup code / SLLIC ELF support
 PHSS_24382 1.0 LIBCL patch
 PHSS_25029 1.0 CPSlib Patch/Add OMP Support for 11.11
 PHSS_25176 1.0 Fortran90 from B.11.01.40 to B.11.01.43

File System: Advanced JFS
 System State: Multi-user

Notes/Tuning Information

User environment:

OMP_NUM_THREADS=64
 CPS_STACK_SIZE=128

Base:

All use -Wl,-aarchive
 F90 +O3 +Oall +Onofltacc +Oinfo +Oopenmp -Wl,+FPD -N
 cc +Oall +DA2.0W +Oopenmp +Oinfo
 cc_pass1 +I
 cc_pass2 +P +Ostatic_prediction

Portability: 318.galgel_m: +source=fixed +extend_source