



# OMPM2001 Result

Copyright ©1999-2002, Standard Performance Evaluation Corporation

Hewlett-Packard Company  
hp server rp8400 (750MHz PA-8700)

SPECompMpeak2001 = --  
SPECompMbase2001 = 5970

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	809	7413			
312.swim_m	6000	679	8834			
314.mgrid_m	7300	1395	5233			
316.applu_m	4000	404	9893			
318.galgel_m	5100	1227	4156			
320.earthquake_m	2600	432	6013			
324.apsi_m	3400	703	4834			
326.gafort_m	8700	1159	7504			
328.fma3d_m	4600	1245	3694			
330.art_m	6400	881	7262			
332.ammp_m	7000	1680	4167			

### Hardware

CPU: PA-8700  
 CPU MHz: 750  
 FPU: Integrated  
 CPU(s) enabled: 16  
 CPU(s) orderable: 2 to 16 by 2  
 Primary Cache: 0.75MBI + 1.5MBD on chip  
 Secondary Cache: None  
 L3 Cache: None  
 Other Cache: None  
 Memory: 32GB  
 Disk Subsystem: 8x36GB SCSI  
 Other Hardware: 4 cells

### Software

OpenMP Threads: 16  
 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=16
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