



OMPM2001 Result

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Hewlett-Packard Company
hp server rx5670 (1000MHz Itanium2)

SPECompMpeak2001 = 4669
SPECompMbase2001 = 4391

SPEC license #HPG2116 | Tested by: Hewlett-Packard Company | Test site: Richardson, Texas | Test date: Jan-2003 | Hardware Avail: Sep-2002 | Software Avail: Jan-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	1097	5471	1025	5851	
312.swim_m	6000	1158	5183	1158	5183	
314.mgrid_m	7300	1900	3842	1900	3842	
316.applu_m	4000	780	5126	722	5540	
318.galgel_m	5100	799	6386	799	6386	
320.earthquake_m	2600	508	5119	471	5523	
324.apsi_m	3400	899	3781	899	3781	
326.gafort_m	8700	2093	4157	2093	4157	
328.fma3d_m	4600	1743	2639	1743	2639	
330.art_m	6400	836	7656	836	7656	
332.ammp_m	7000	3466	2020	2202	3180	

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1000
 FPU: Integrated
 CPU(s) enabled: 4
 CPU(s) orderable: 1 to 4
 Primary Cache: L1 Inst/Data: 16 KB, associativity = 4
 Secondary Cache: L2 Unified: 256 KB, associativity = 8
 L3 Cache: L3 Unified: 3072 KB, associativity = 12
 Other Cache: None
 Memory: 24GB
 Disk Subsystem: 1x9GB (root), 1x24GB (swap) 1x80Gb (lvol)
 Other Hardware: --

Software

OpenMP Threads: 4
 Parallel: OpenMP
 Operating System: HP-UX 11i TCOE B.11.22
 Compiler: HP C/ANSI C Compiler v11.22
 HP Fortran 90 Compiler v2.6.3
 PHSS_28487: f90 Compiler Product
 PHSS_27659: C Compiler Product
 PHSS_27658: C++ Compiler Product
 PHSS_27287: U2comp
 PHSS_27288: Linker
 PHSS_27289: Libm
 PHSS_27290: Assembler
 PHSS_27291: PBO

File System: Online JFS
 System State: Multi-user

Notes/Tuning Information

User environment:
 OMP_NUM_THREADS=4

Portability Flags:
 318.galgel: +source=fixed +extend_source

Base:
 F90 +Ofaster +DSitanium2 +Openmp
 +Oinfo +DD64 -minshared
 cc +Ofaster +Openmp +DD64 +Oinfo +DSitanium2
 -minshared -AOe +Onofltacc +FPD

Peak:
 310.wupwise_m: +Ofaster +O3 +DSitanium2 +Openmp
 +Oinfo +DD64 -minshared +cat -Wl,+pd64k -Wl,+pi64k
 ONESTEP = true

312.swim_m: basepeak=true
 314.mgrid_m: basepeak=true



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Notes/Tuning Information (Continued)

316.applu_m: +Ofaster +DSitanium2 +O2 +Oopenmp
+Oinfo +DD64 -minshared

318.galgel_m: basepeak=true

320.equake_m: +Ofaster +Oopenmp +DD64
+Oinfo +DSitanium2 -minshared -AOe +FPD +Onofltacc

324.apsi_m: basepeak=true

326.gafort_m: basepeak=true

328.fma3d_m: basepeak=true

330.art_m: basepeak=true

332.ammp_m: +O3 +Oopenmp +DD64 +Oinfo
+DSitanium2 -minshared -AOe
PASS1_CFLAGS = +Oprofile=collect
PASS1_LDCFLAGS = +Oprofile=collect
PASS2_CFLAGS = +Oprofile=use
PASS2_LDCFLAGS = +Oprofile=use

Alternate Sources:

hpg.1 C++ compiler compatible sources
from SPEC Web site ompm2001-isoc-20020619.tar.gz
used for Base 320.equake_m 330.art_m 332.ammp_m
used for Peak 332.ammp_m

ompl.32 OMPL 32 bit compatible sources
from SPEC Web site ompm2001-srcl32bit-20020822.tar.gz
used for Peak 310.wupwise_m 320.equake_m

Kernel Paramters (/stand/system):

maxdsiz 0x7b03a000
maxdsiz_64bit 0x4000000000
maxssiz 0x10000000
maxssiz_64bit 0x40000000
maxtsiz 1073741824
maxtsiz_64bit 4294967296
vps_pagesize 4096
vps_ceiling 16384
dbc_min_pct 20
dbc_max_pct 20