



OMPM2001 Result

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Hewlett-Packard Company
hp server rx5670 (1000MHz Itanium 2)

SPECompMpeak2001 = 4091
SPECompMbase2001 = 3762

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	2304	2604	1326	4526	
312.swim_m	6000	1140	5262	1140	5262	
314.mgrid_m	7300	1903	3836	1903	3836	
316.applu_m	4000	695	5751	695	5751	
318.galgel_m	5100	939	5429	901	5662	
320.earthquake_m	2600	502	5177	492	5290	
324.apsi_m	3400	1322	2572	1322	2572	
326.gafort_m	8700	2861	3041	2835	3068	
328.fma3d_m	4600	1834	2508	1670	2755	
330.art_m	6400	861	7433	861	7433	
332.ammp_m	7000	4058	1725	3317	2111	

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: 12GB
 Disk Subsystem: 1x9GB SCSI disk (root), 1x9GB SCSI disk (swap)
 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 v2.6.03
 PHSS_27281: f90 product
 PHSS_27286: C product
 PHSS_27287: U2comp
 PHSS_27288: Linker
 PHSS_27289: Libm
 PHSS_27290: Assembler
 PHSS_27291: PBO
 File System: VxFS
 System State: Multi-user

Notes/Tuning Information

ANSI Dialect Flag:
C-codes : -AOe

Alternate Sources
hpg.1 C++ compiler compatible sources
from SPEC ompm2001-isoc-20020619.tar.gz

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

Base:
 F90 +Ofaster +DSitanium2 +O2 +Oopenmp
 +Oinfo +DD64 -minshared +FPD +Onofltacc
 cc +O3 +Oopenmp +DD64 +Oinfo +DSitanium2
 -minshared -AOe
 PASS1_CFLAGS +I
 PASS1_LDCFLAGS +I -Wl,-aarchive
 PASS2_CFLAGS +P +Ostatic_prediction
 PASS2_LDCFLAGS +P +Ostatic_prediction -Wl,-aarchive

Peak:



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Notes/Tuning Information (Continued)

310.wupwise_m: +Ofaster +O3 +DSitanium2 +Oopenmp
+Oinfo +DD64 -minshared +FPD +Onofltacc +cat
ONESTEP = true

318.galgel_m: +Ofaster +O3 +DSitanium2
+Oopenmp +Oinfo +DD64 -minshared +FPD +Onofltacc

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

326.gafort_m: +Ofaster +O3 +DSitanium2
+Oopenmp +Oinfo +DD64 -minshared +FPD +Onofltacc
+Onoinline=ran3,ran_init

328.fma3d_m: +Ofaster +O3 +DSitanium2 +Oopenmp
+Oinfo +DD64 -minshared +FPD +Onofltacc
+Oinline_budget=75 +cat

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

User environment:
OMP_NUM_THREADS=4

Kernel Parameters (/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