



OMPM2001 Result

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Hewlett-Packard Company
hp server rx2600 (1000MHz Itanium 2)

SPECompMpeak2001 = 2637
SPECompMbase2001 = 2397

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	4443	1350	2476	2423	
312.swim_m	6000	1318	4551	1318	4551	
314.mgrid_m	7300	3059	2386	3059	2386	
316.applu_m	4000	876	4564	876	4564	
318.galgel_m	5100	1338	3811	1183	4312	
320.earthquake_m	2600	728	3571	703	3701	
324.apsi_m	3400	1847	1841	1847	1841	
326.gafort_m	8700	5356	1624	5073	1715	
328.fma3d_m	4600	3264	1409	3080	1493	
330.art_m	6400	1680	3810	1680	3810	
332.ammp_m	7000	6813	1028	5609	1248	

Hardware

CPU: Intel Itanium 2
 CPU MHz: 1000
 FPU: Integrated
 CPU(s) enabled: 2
 CPU(s) orderable: 1 to 2
 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: 6GB
 Disk Subsystem: 1x36GB SCSI disk
 Other Hardware: --

Software

OpenMP Threads: 2
 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.amp_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=2

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