OMPM2001 Result

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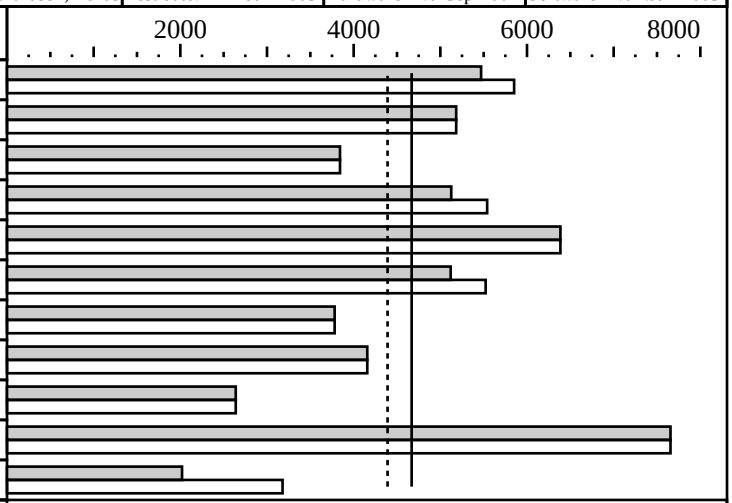
Hewlett-Packard Company
hp server rx5670 (1000MHz Itanium2)

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.equake_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 +Oopenmp
        +Oinfo +DD64 -minshared
   cc   +Ofaster +Oopenmp +DD64 +Oinfo +DSitanium2
        -minshared -AOe +Onofltacc +FPD

Peak:
  310.wupwise_m:  +Ofaster +O3 +DSitanium2 +Oopenmp
    +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
```