OMPM2001 Result

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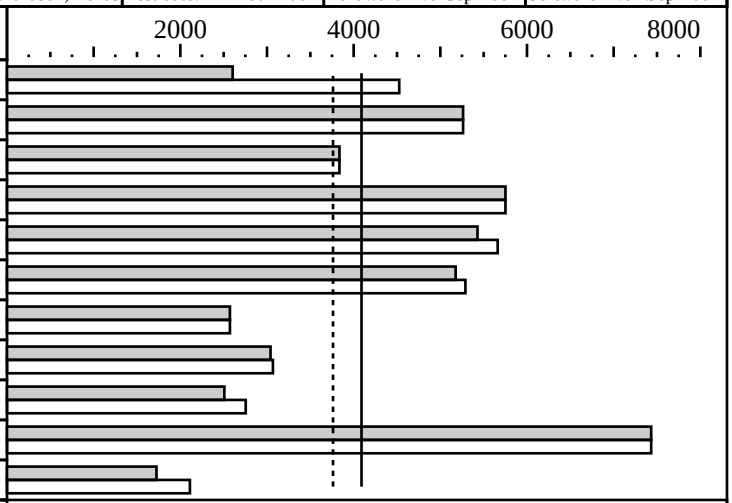
Hewlett-Packard Company
hp server rx5670 (1000MHz Itanium 2)

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.equake_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 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
```