OMPM2001 Result

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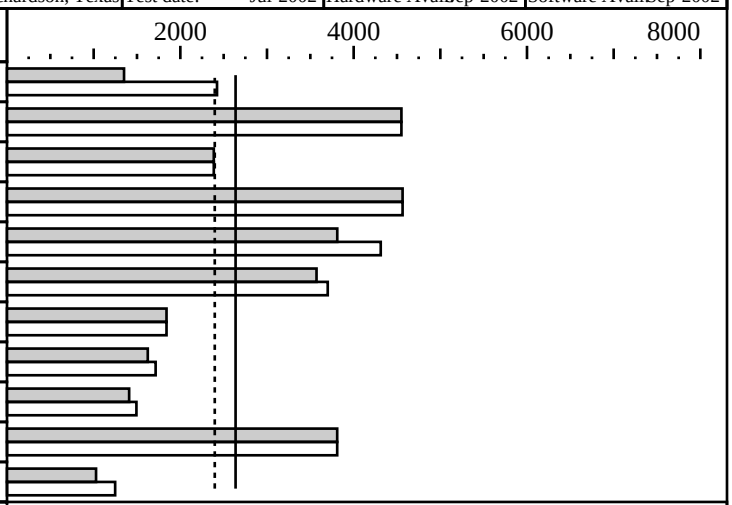
Hewlett-Packard Company
hp server rx2600 (1000MHz Itanium 2)

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.equake_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.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=2

  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
```