HPC2002 Result

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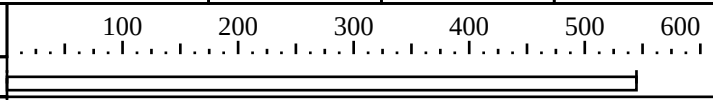
Hewlett-Packard Company
hp server rx5670 (1000MHz Itanium2)

SPECchemS2002 = 545

SPEC license #: HPG2116 | Tested by: Hewlett-Packard Company | Test site: Richardson, Texas | Test date: Nov-2002 | HW Avail: Oct-2002 | SW Avail: Oct-2002

Benchmark	Reference Time	Runtime	Ratio
370.gamess_s	86400	159	545



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

Parallel:	MPI & OpenMP
Processes-Threads:	4
MPI Processes:	2
OpenMP Threads:	2
Operating System:	HP-UX 11i TCOE B.11.22
Compiler:	HP C/ANSI C Compiler v11.22 HP Fortran 90 Compiler v2.6.2 HP aC++ Compiler A.03.35 HP MPI 1.08.02 PHSS_27975: f90 product PHSS_27286: C product PHSS_27287: U2comp PHSS_27288: Linker PHSS_27289: Libm PHSS_27290: Assembler PHSS_27291: PBO
File System:	Online JFS
System State:	Multi-user
Other Software:	MPI

Notes/Tuning Information

```
  Flags:
    mpif90  +O3  +Ofltacc  +Oinfo +es +U77
            -DSPEC_HPG_MPI +DD64 +r8 +i8
            -I /opt/mpi/include  -DSPEC_HPG_MPI
            -L /opt/mpi/lib/pa20_64  -lmpi -Wl,+FPD
            +U77 +DD64 +FPD +Oopenmp

    mpicc   +O3 +Oinfo -DNOUNDERSCORE +DD64
            -DSPEC_HPG_MPI -DSPECDONOTNEEDARG
            -L /opt/mpi/lib/pa20_64  -lmpi -Wl,+FPD
            +U77 +DD64 +FPD +Oopenmp

    /usr/ccs/lbin/cpp   -I. -C -P -DSPEC_HPG_MPI -DNOUNDERSCORE -D_OPENMP

  Alternate Source used for Peak:
    None

  User Environment:
    use_submit_for_speed=1
    submit=export OMP_NUM_THREADS=$OMPI_COMM_SIZE;
           MPI_ENABLED=ENABLED; export MPI_ENABLED;
           mpirun -np $MPI_COMM_SIZE $command

Kernel Paramters (/stand/system):
    maxdsiz         0x7b03a000
    maxdsiz_64bit   0x4000000000
    maxssiz         0x10000000
    maxssiz_64bit   0x40000000
```

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Notes/Tuning Information (Continued)

```
maxtsiz          1073741824
maxtsiz_64bit    4294967296
vps_pagesize     4096
vps_ceiling      16384
dbc_min_pct      20
dbc_max_pct      20
```