HPC2002 Result

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Hewlett-Packard Company
hp server rx5670 (1500MHz Itanium2)

SPECchemS2002 = 1531

SPEC license #: HPG2116	Tested by: Hewlett-Packard Company	Test site: Richardson, Texas	Test date: Nov-2003	HW Avail: Oct-2003	SW Avail: Oct-2003

Benchmark	Reference Time	Runtime	Ratio
370.gamess_s	86400	56.5	1531

500 1000 1500 2000

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1500
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: 6144 KB, associativity = 24
Other Cache:	None
Memory:	24GB
Disk Subsystem:	1x36GB 10k RPM SCSI disk
Other Hardware:	--

Software

Parallel:	OpenMP
Processes-Threads:	4
MPI Processes:	N/A
OpenMP Threads:	4
Operating System:	HPUX11i-TCOE B.11.23
Compiler:	HP C/ANSI C Compiler B.11.23 HP aC++ Compiler B.11.23 HP Fortran 90 Compiler B.11.23 HP LIBF90 PHSS_29620 HP F90 Compiler PHSS_29663 HP aC++ Compiler PHSS_29655 HP C Compiler PHSS_29656 u2comp/be/plugin library PHSS_29657 HP MPI 02.00.00.00 B6060B
File System:	vxfs
System State:	Multi-user
Other Software:	--

Notes/Tuning Information

```
 Peak Flags:  OpenMP
   mpif90   +Ofast +Oopenmp +Oinfo $(DAFLAG) +nosignedzero +Oinline
   mpicc    +Ofast   -DNOUNDERSCORE $(DAFLAG)
   OPTIMIZE = -I /opt/mpi/include
   DAFLAG = +DD64 +i8 +r8
   CPPFLAGS = -I. -C -P
   EXTRA_CPPFLAGS = -D_OPENMP
   EXTRA_LIBS =  -L /opt/mpi/lib/hpux64 -lmpi  +U77 $(DAFLAG) +FPD +Oopenmp
   FPORTABILITY= +U77

 Alternate Source used for Peak:
   None

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

 Peak User Environment:
   use_submit_for_speed=1
```