



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

Hardware		Software	
CPU:	Intel Itanium 2	Parallel:	OpenMP
CPU MHz:	1500	Processes-Threads:	4
FPU:	Integrated	MPI Processes:	N/A
CPU(s) enabled:	4	OpenMP Threads:	4
CPU(s) orderable:	1 to 4	Operating System:	HPUX11i-TCOE B.11.23
Primary Cache:	L1 Inst/Data: 16 KB, associativity = 4	Compiler:	HP C/ANSI C Compiler B.11.23
Secondary Cache:	L2 Unified: 256 KB, associativity = 8		HP aC++ Compiler B.11.23
L3 Cache:	L3 Unified: 6144 KB, associativity = 24		HP Fortran 90 Compiler B.11.23
Other Cache:	None		HP LIBF90 PHSS_29620
Memory:	24GB		HP F90 Compiler PHSS_29663
Disk Subsystem:	1x36GB 10k RPM SCSI disk		HP aC++ Compiler PHSS_29655
Other Hardware:	--		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 +Openmp +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 +Openmp
FPORBTABILITY= +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
submit = OMP_NUM_THREADS=\$OMPI_COMM_SIZE ; \
export OMP_NUM_THREADS; $command

```