HPC2002 Result

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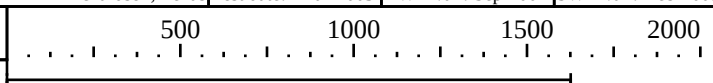
Hewlett-Packard Company
hp server rx5670 (1000MHz Itanium2)

SPECenvS2002 = 1626

SPEC license #: HPG2116	Tested by: Hewlett-Packard Company	Test site: Richardson, Texas	Test date: Mar-2003	HW Avail: Sep-2002	SW Avail: Feb-2003

Benchmark	Reference Time	Runtime	Ratio
360.wrf_s	86400	53.1	1626



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:	24GB
Disk Subsystem:	1x9GB SCSI disk (root), 1x9GB SCSI disk (swap)
Other Hardware:	--

Software

Parallel:	MPI
Processes-Threads:	4
MPI Processes:	4
OpenMP Threads:	--
Operating System:	HP-UX 11i TCOE B.11.22
Compiler:	HP C/ANSI C Compiler v11.22 HP aC++ Compiler A.05.36 HP Fortran 90 Compiler v2.6.5 HP MPI 1.08.00 PHSS_28697: 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:	NetCDF 3.5.0, HP MPI 1.08.00

Notes/Tuning Information

```
  Flags:
    mpif90  +DD64 +noppu +Ofaster +O3 +Oinfo
       -I/scratch/lieb/netcdf-3.5.0/include
       -minshared  -L /opt/mpi/lib/hpux64 -lmpi
       -L /scratch/lieb/netcdf-3.5.0/lib/hpux64 -lnetcdf

    mpicc +DD64 +Ofaster +O3 -DNOUNDERSCORE -DSPEC_HPG_MPI2
       -minshared  -L /opt/mpi/lib/hpux64 -lmpi
       -L /scratch/lieb/netcdf-3.5.0/lib/hpux64 -lnetcdf

    /usr/ccs/lbin/cpp   -I. -C -P

    NETCDF built with +O2 +DD64

    ENV_SPEC_HPG_PARALLEL=MPI

  Alternate Source used:
    None

  User Environment:
    export MPI_COMM_SIZE=4
    use_submit_for_speed=1
    submit=mpirun -np $MPI_COMM_SIZE $command

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

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Notes/Tuning Information (Continued)

```
maxssiz_64bit   0x40000000
maxtsiz         1073741824
maxtsiz_64bit   4294967296
vps_pagesize    4
vps_ceiling     64
dbc_min_pct     10
dbc_max_pct     10
```