



HPC2002 Result

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

SPECenvM2002 = 23.4

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	3	6	9	12	15	18	21	24
361.wrf_m	86400	3696	23.4								

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: 48GB
 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/bin/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 Parameters (/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 4096
vps_ceiling  16384
dbc_min_pct  40
dbc_max_pct  40
```