



# 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		Software	
CPU:	Intel Itanium 2	Parallel:	MPI
CPU MHz:	1000	Processes-Threads:	4
FPU:	Integrated	MPI Processes:	4
CPU(s) enabled:	4	OpenMP Threads:	--
CPU(s) orderable:	1 to 4	Operating System:	HP-UX 11i TCOE B.11.22
Primary Cache:	L1 Inst/Data: 16 KB, associativity = 4	Compiler:	HP C/ANSI C Compiler v11.22
Secondary Cache:	L2 Unified: 256 KB, associativity = 8		HP aC++ Compiler A.05.36
L3 Cache:	L3 Unified: 3072 KB, associativity = 12		HP Fortran 90 Compiler v2.6.5
Other Cache:	None		HP MPI 1.08.00
Memory:	24GB		PHSS_28697: f90 product
Disk Subsystem:	1x9GB SCSI disk (root), 1x9GB SCSI disk (swap)		PHSS_27286: C product
Other Hardware:	--		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	4
vps_ceiling	64
dbc_min_pct	10
dbc_max_pct	10