



# HPC2002 Result

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

SPECenvS2002 = 531

SPEC license #: HPG2116 | Tested by: Hewlett-Packard Company | Test site: Richardson, Texas | Test date: Nov-2002 | HW Avail: Oct-2002 | SW Avail: Oct-2002

Benchmark	Reference Time	Runtime	Ratio	100	200	300	400	500	600
360.wrf_s	86400	163	531						

### 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: 12GB  
 Disk Subsystem: 1x9GB SCSI disk (root), 1x9GB SCSI disk (swap)  
 Other Hardware: --

### Software

Parallel: OpenMP  
 Processes-Threads: 4  
 MPI Processes: 1  
 OpenMP Threads: 4  
 Operating System: HP-UX 11i TCOE B.11.22  
 Compiler: HP C/ANSI C Compiler v11.22  
 HP Fortran 90 Compiler v2.6.2  
 HP aC++ Compiler A.03.35  
 HP MPI 1.08.02  
 PHSS\_27975: 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

## Notes/Tuning Information

### Flags:

```
f90 +O2 +Oopenmp +Oinfo +Onoinline
-I/scratch/lieb/netcdf-3.5.0/include
+FPD -minshared -L /opt/mpi/lib/hpux64 -lmpi
-L /scratch/lieb/netcdf-3.5.0/lib/hpux64 -lnetcdf
```

```
aCC -Ae +O2 +Oopenmp +Oinfo -DNOUNDERSCORE -D_OPENMP
+FPD -minshared -L /opt/mpi/lib/hpux64 -lmpi
-L /scratch/lieb/netcdf-3.5.0/lib/hpux64 -lnetcdf
```

```
/usr/ccs/bin/cpp -I. -C -P -D_OPENMP
```

```
ENV_SPEC_HPG_PARALLEL=OMP
```

### User Environment:

```
use_submit_for_speed=1
submit=export OMP_NUM_THREADS=
\${OMPI_COMM_SIZE};$command
```

### Kernel Parameters (/stand/system):

```
maxdsiz 0x7b03a000
maxdsiz_64bit 0x4000000000
maxssiz 0x10000000
maxssiz_64bit 0x40000000
maxtsiz 1073741824
maxtsiz_64bit 4294967296
vps_pagesize 4096
vps_ceiling 16384
```



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## Notes/Tuning Information (Continued)

dbc\_min\_pct 20  
dbc\_max\_pct 20