



HPC2002 Result

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SGI
SGI 3800 64X 600MHz R14000A

SPECenvM2002 = 175

SPEC license #: HPG0014 | Tested by: SGI | Test site: SGI | Test date: Nov-2002 | HW Avail: Jan-2002 | SW Avail: Nov-2002

| Benchmark | Reference Time | Runtime | Ratio |
|-----------|----------------|---------|-------|
| 361.wrf_m | 86400 | 493 | 175 |

| Hardware | | Software | |
|-------------------|-------------------------------------|--------------------|-------------------------------|
| CPU: | R14000 | Parallel: | MPI |
| CPU MHz: | 600 | Processes-Threads: | 64 |
| FPU: | Integrated | MPI Processes: | 64 |
| CPU(s) enabled: | 64 | OpenMP Threads: | -- |
| CPU(s) orderable: | 2-1024 | Operating System: | IRIX 6.5.18f |
| Primary Cache: | 32KBI + 32KBD on chip | Compiler: | MIPSpro 7.3.1.3m C, Fortran90 |
| Secondary Cache: | 8MB(I+D) off chip | File System: | xfs |
| L3 Cache: | N/A | System State: | Multi-user |
| Other Cache: | N/A | Other Software: | MPT 1.6 & NetCDF 3.5.0 |
| Memory: | 64 GB | | |
| Disk Subsystem: | 1 x 9 GB SCSI, 10 x 36 GB (striped) | | |
| Other Hardware: | None | | |

Notes/Tuning Information

Flags (Fortran & C): -64 -mips4 -Ofast=ip35 -OPT:Olimit=4000 -I. -I\$(NETCDF)/include

User environment:

```
limit stacksize 512m
SPEC_HPG_PARALLEL=MPI
NETCDF=$SPEC/netcdf-3.5.0
MPI_COMM_SIZE=64
```

Submit command to run MPI application:

```
use_submit_for_speed=1
submit=mpirun -np "$MPI_COMM_SIZE" $command
```

NetCDF available at: <http://www.unidata.ucar.edu/packages/netcdf>

NetCDF 3.5.0 was compiled -64 -mips4 -O3