



# HPC2002 Result

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**SGI**  
**SGI 3800 16X 600MHz R14000A**

**SPECenvM2002 = 49.0**

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	1764	49.0

Hardware		Software	
CPU:	R14000	Parallel:	MPI
CPU MHz:	600	Processes-Threads:	16
FPU:	Integrated	MPI Processes:	16
CPU(s) enabled:	16	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:	16 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=16
```

```
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