



# HPC2002 Result

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IBM Corporation  
IBM RS/6000 SP-375MHz T

SPECseisS2002 = 443

SPEC license #: HPG0021A | Test site: NREL, Golden, CO | Test date: Nov-2002 | HW Avail: Feb-2000 | SW Avail: Dec-2001

Benchmark	Reference Time	Runtime	Ratio
350.seis_s	86400	195	443

Hardware		Software	
CPU:	Power3-II	Parallel:	MPI
CPU MHz:	375	Processes-Threads:	4
FPU:	Integrated	MPI Processes:	4
CPU(s) enabled:	56	OpenMP Threads:	--
CPU(s) orderable:	128	Operating System:	AIX 4.3.3
Primary Cache:	32KBI+64KBD (on chip)	Compiler:	C: IBM VAC 5.0.2.0, "mpcc" Preprocessor: IBM VAC 5.0.2.0, "/usr/ccs/lib/cpp" Fortran: IBM xl Fortran 7.1.1.0, "mpxlF90"
Secondary Cache:	8MB unified (off chip)	File System:	AIX/GPFS
L3 Cache:	None	System State:	Multi-user
Other Cache:	None	Other Software:	Parallel Operating Environment (POE) 3.1.0.0
Memory:	2GB		
Disk Subsystem:	2x9.1GB		
Other Hardware:	Ethernet 10-Base2/SP-Colony Switch		

## Notes/Tuning Information

Tested by NREL (National Renewable Energy Lab)

### Flags:

```
C: -DNOUNDERSCORE -DSPEC_HPG_MPI -O3 -qstrict -qarch=pwr3 -qtune=pwr3
Preprocessor: -DSPEC_HPG_MPI
Fortran: -qfixed -O3 -qstrict -qarch=pwr3 -qtune=pwr3
-bmaxdata:0x60000000 -bmaxstack:0x20000000
```

### User Environment:

```
limit stacksize 256m
limit memoryuse 2048m
```

### Submit command to run applications

```
export "MP_HOSTFILE=\${HOME}/hostfile"; export "MP_PROCS=\$MPI_COMM_SIZE"; poe $command
```