



# HPC2002 Result

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Sun Microsystems  
Sun HPC 3500

SPECchemM2002 = 2.21

SPEC license #: HPG0007A | Tested by: Purdue University | Test site: Purdue University | Test date: Oct-2003 | HW Avail: Dec-1998 | SW Avail: Apr-2003

Benchmark	Reference Time	Runtime	Ratio	1	2	3	4	5	
371.gamess_m	86400	39147	2.21						

### Hardware

CPU: UltraSPARC II  
 CPU MHz: 400  
 FPU: Integrated  
 CPU(s) enabled: 8  
 CPU(s) orderable: 1 to 8  
 Primary Cache: 16KBI+16KBD on chip  
 Secondary Cache: 4MB(I+D) off chip  
 L3 Cache: None  
 Other Cache: None  
 Memory: 8GB  
 Disk Subsystem: 2 x Fujitsu MAA3182S SUN18G  
 Other Hardware: 100Mbps Ethernet

### Software

Parallel: OpenMP  
 Processes-Threads: 8  
 MPI Processes: --  
 OpenMP Threads: 8  
 Operating System: Solaris 8  
 Compiler: Sun Forte Developer 7 C 5.4 2002/03/09  
 Sun Forte Developer 7 Fortran 95 7.0 Patch 111714-06 2003/04/10  
 File System: UFS  
 System State: Multi User  
 Other Software: --

## Notes/Tuning Information

Tested by Purdue University

### Flags:

```
OPTIMIZE = -fast -xarch=v9a -xopenmp -xunroll=5
FOPTIMIZE = -xtypemap=integer:64
CPPFLAGS = -I. -D_OPENMP
```

### OS Environment:

csh/tcsh: unlimited stacksize

The MPI result is about the same as the OpenMP result.