



HPC2002 Result

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Sun Microsystems
Sun HPC 3500

SPECchemS2002 = 465

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
370.gamess_s	86400	186	465

Hardware		Software	
CPU:	UltraSPARC II	Parallel:	OpenMP
CPU MHz:	400	Processes-Threads:	8
FPU:	Integrated	MPI Processes:	--
CPU(s) enabled:	8	OpenMP Threads:	8
CPU(s) orderable:	1 to 8	Operating System:	Solaris 8
Primary Cache:	16KBI+16KBD on chip	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
Secondary Cache:	4MB(I+D) off chip	File System:	UFS
L3 Cache:	None	System State:	Multi User
Other Cache:	None	Other Software:	--
Memory:	8GB		
Disk Subsystem:	2 x Fujitsu MAA3182S SUN18G		
Other Hardware:	100Mbps Ethernet		

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

Comment: The OpenMP result is better than the MPI result, which is 386.