



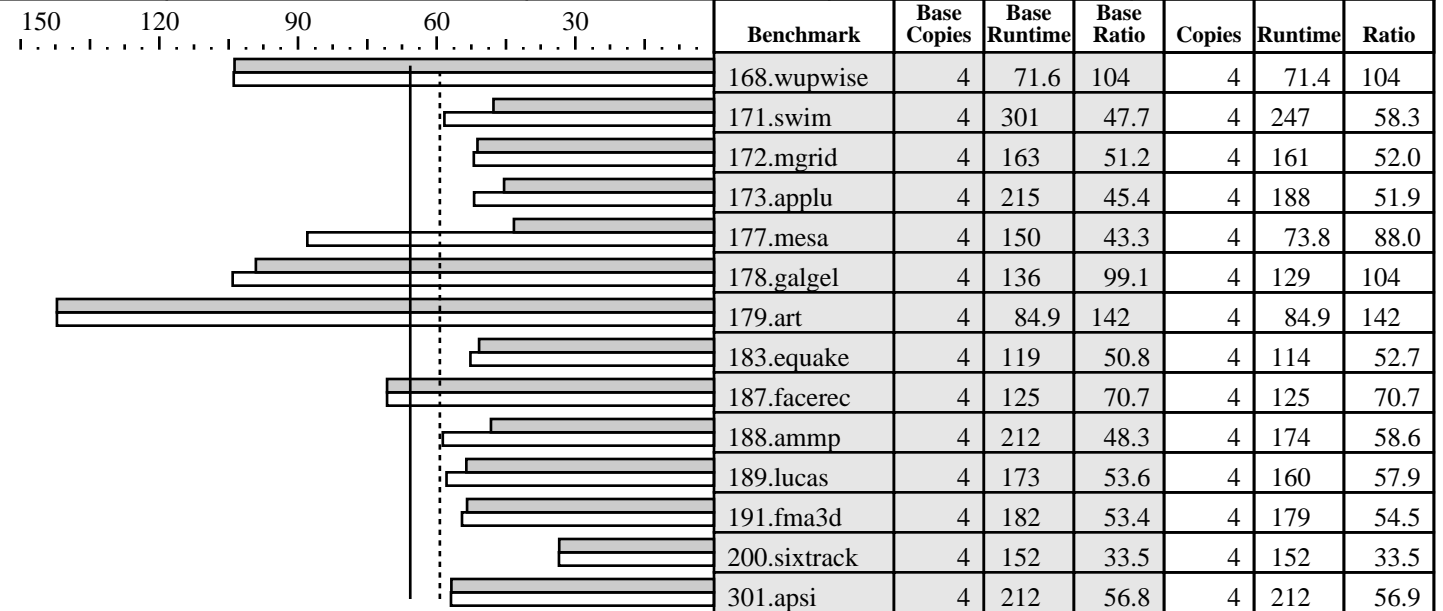
CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Supermicro
H8DA8 Motherboard (AMD Opteron (TM) 280)

SPECfp_rate2000 = **65.7**
SPECfp_rate_base2000 = **59.3**

SPEC license #01176 | Tested by: Supermicro | Test date: May-2006 | Hardware Avail: Feb-2006 | Software Avail: Oct-2005



Hardware

CPU: AMD Opteron (TM) 280
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1-2
 Parallel: no
 Primary Cache: 64KBI + 64KBD on chip per core
 Secondary Cache: 1024KB (I+D) on chip per core
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 8x2048MB, DDR400 CL3
 Disk Subsystem: Seagate Barracuda 7200.9 IDE, 120 GB, 7200 RPM
 Other Hardware: None

Software

Operating System: Windows server 2003 Enterprise Edition w/Service Pack1
 Compiler: Intel C++ 9.0 build 20050912Z for IA32, Intel Fortran 9.0 build 20050912Z for IA32, Microsoft Visual Studio .NET 7.0.9466 (libraries) PGI Fortran compiler 6.0-5 for Windows XP, PGI C compiler 6.0-5 for Windows XP, ACML Version 2.5.3 (bundled with PGI 6.0-5)
 File System: NTFS
 System State: default

Notes/Tuning Information

+FDO:
 icl, ifort : PASS1=-Qprof_gen PASS2=-Qprof_use
 pgf90 : PASS1=-Mpfi PASS2=-Mpfo
 ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and pgf90 is the PGI Fortran 90 compiler.
 pgcc is the PGI C compiler.
 ONESTEP is set to 1 for every compile with the PGI compilers.
 Portability:
 178.galgel: -Mfixed
 Baseline: C : pgcc -fastsse -Mipa=fast,inline
 Baseline: Fortran: pgf90 -fastsse -Mipa=fast,inline +FDO
 Peak tuning:
 168.wupwise: pgf90 -fastsse -Mipa=fast,inline -Mvect
 171.swim: ifort -Qipo -O3 -QaxN -QxW -Qunroll0 +FDO
 172.mgrid: pgf90 -fastsse -Mipa=fast,inline
 173.applu: ifort -Qipo -O3 -QaxN -QxW -auto +FDO
 177.mesa: icl -Qipo -QxW -Qunroll1 -Qansi_alias +FDO



CFP2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Supermicro
H8DA8 Motherboard (AMD Opteron (TM) 280)

SPECfp_rate2000 = 65.7
SPECfp_rate_base2000 = 59.3

SPEC license #01176 | Tested by: Supermicro | Test date: May-2006 | Hardware Avail: Feb-2006 | Software Avail: Oct-2005

Notes/Tuning Information (Continued)

```

-Option,c,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
178.galgel:      pgf90  -fastsse -Mipa=fast,safe -Munix -lacml
                  RM_SOURCES=lapak.f90
179.art:         pgcc   basepeak=yes
183.quake:       icl    -O3 -Qipo -QxW +FDO
187.facerec:     pgf90  basepeak=1
188.ampp:        icl    -Oa  -QxW  -Zp4 -Qansi_alias
189.lucas:       ifort  -Qipo -QxW -Qunroll1
191.fma3d:       pgf90  -Mipa=fast,inline -fastsse -Mnovect +FDO
200.sixtrack:   pgf90  -fastsse -Mipa=fast,inline
301.apsi:        pgf90  -fastsse -Mipa=fast,inline

```

Tested system can be used with a 420W (minimum) ATX power supply

Product description located as of:

<http://www.supermicro.com/Aplus/motherboard/Opteron/8131/H8DA8.cfm>

Other Configuration Notes The start /b /wait /affinity command is used to bind CPU(s) to processes.