



CFP2000 Result

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Supermicro
Supermicro H8DM8-2 Motherboard, Opteron 2218

SPECfp_rate2000 = **59.9**
SPECfp_rate_base2000 = **58.2**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	68.6	108	4	78.2	95.0
171.swim	4	362	39.8	4	355	40.6
172.mgrid	4	166	50.3	4	166	50.3
173.applu	4	239	40.8	4	238	40.9
177.mesa	4	140	46.3	4	69.0	94.1
178.galgel	4	145	93.0	4	150	89.7
179.art	4	86.1	140	4	86.1	140
183.equake	4	117	51.5	4	117	51.7
187.facerec	4	125	70.5	4	125	70.5
188.amp	4	211	48.3	4	171	59.7
189.lucas	4	192	48.4	4	276	33.7
191.fma3d	4	177	55.0	4	179	54.5
200.sixtrack	4	142	36.1	4	141	36.1
301.apsi	4	213	56.7	4	213	56.7

Hardware	Software
CPU: AMD Opteron 2218 CPU MHz: 2600 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: 4x512MB, DDR2-667 CL3 Disk Subsystem: IDE, 120 GB Other Hardware: None	Operating System: Windows 2003 EE R2 SP1 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

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+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

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Notes/Tuning Information (Continued)

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-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
The system under test can be built with a NVIDIA GeForce FX 5700 graphics card and
an ATX APE-300x power supply.

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