



CFP2000 Result

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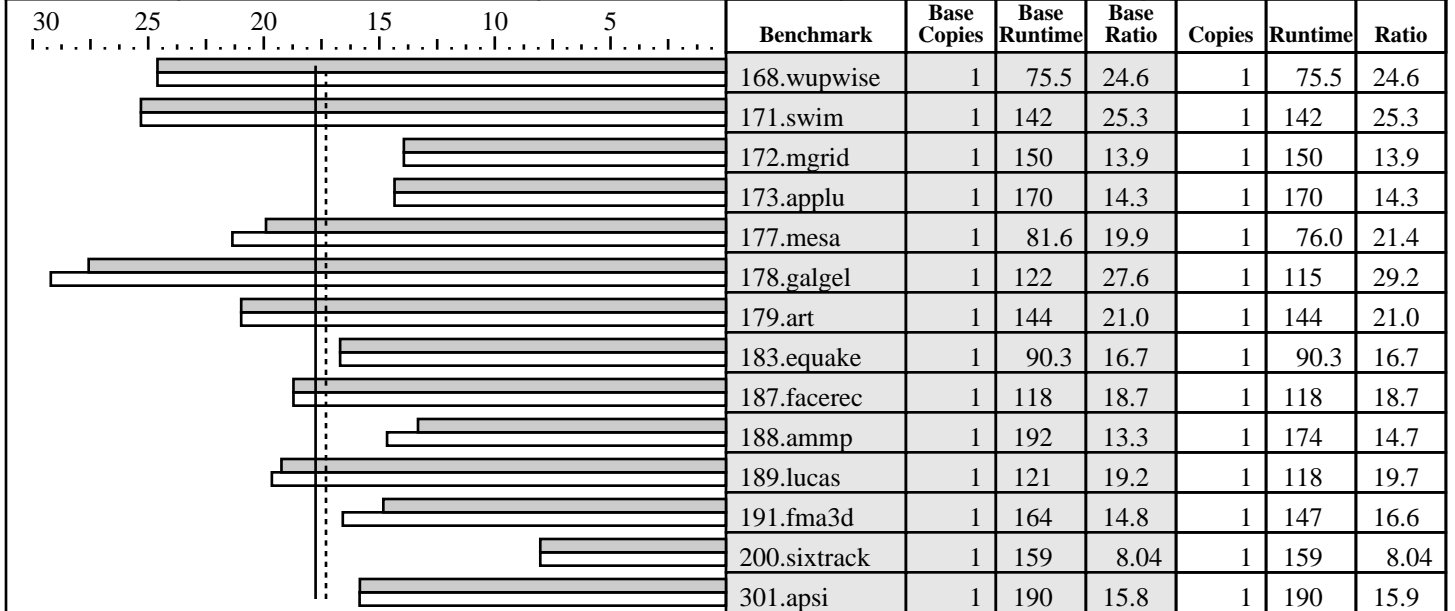
Advanced Micro Devices

Tyan Thunder K8QS Pro (S4882), AMD Opteron (TM) 850

SPECfp_rate2000 = 17.8

SPECfp_rate_base2000 = 17.3

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Sep-2004 | Hardware Avail: Jul-2004 | Software Avail: Aug-2004



Hardware

CPU: AMD Opteron (TM) 850
 CPU MHz: 2400
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 4
 Parallel: No
 Primary Cache: 64KBI + 64KBD on chip
 Secondary Cache: 1024KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4x512 MB PC3200 CL3.0 ECC Registered
 Disk Subsystem: SCSI, Seagate Cheetah ST336753LW
 Ultra 320, 15K rpm
 Other Hardware: None

Software

Operating System: Microsoft Windows Server 2003, Enterprise Edition
 Compiler: Intel C++ 8.0 build 20040611Z, Intel Fortran 8.0 build 20040519Z, PGI Fortran compiler 5.2-1 for Windows XP, AMD Core Math library Version 2.0 (ACML), Microsoft Visual Studio .NET 7.0.9466 (libraries), MicroQuill Smartheap Library 7.0
 File System: NTFS
 System State: Default

Notes/Tuning Information

Tested by Advanced Micro Devices
 +FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
 +ACML is the AMD Core Math Library V2.0
 ONESTEP is set for all peak runs.
 ifort is the Intel Fortran compiler, icl is the Intel C++ compiler and
 pgf90 is the PGI Fortran compiler.
 Portability:
 178.galgel: -Mfixed
 Baseline: C : icl -fast -arch:SSE2 -QaxW +FDO
 Baseline: Fortran: pgf90 -fastsse -Mipa=fast,inline
 Peak tuning:
 168.wupwise: pgf90 basepeak=yes
 171.swim: ifort basepeak=yes
 172.mgrid: pgf90 basepeak=yes
 173.applu: pgf90 basepeak=yes
 177.mesa: icl -Qipo -arch:SSE2 +FDO -Qunroll1 -Qansi_alias



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Notes/Tuning Information (Continued)

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-Qoption,f,-ip_ninl_max_stats=1500,-ip_ninl_max_total_stats=4500
179.art:          icl  basepeak=yes
183.quake:       icl  basepeak=yes
178.galgel:      pgf90 -fastsse -Mipa=fast,safe -mp RM_SOURCES=lapak.f90 -Munix +ACML
187.facerec:     pgf90 basepeak=yes
188.ammp:        icl  -Oa  -arch:SSE2 -Zp4          -Qansi_alias
189.lucas:       ifort          -QxW          -Qunroll1
191.fma3d:       ifort -fast          -QxW  +FDO -Qscalar_rep-
-Qoption,f,-ip_ninl_max_stats=1000,-ip_ninl_max_total_stats=3500
200.sixtrack:   pgf90 basepeak=yes
301.apsi:       pgf90 -fastsse -Mipa=fast,align
BIOS rev. 1.02
All memory slots populated on CPU0
The tested system can be assembled using an SSI MEB footprint case, such as the CCSI RC0352 3U
rackmount case, and a Tyan recommended 650W EPS-12V power supply, such as the Enermax
660W power supply (PEG851AX-VH)
Physical Address Extension (PAE) enabled

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