CFP2000 Result

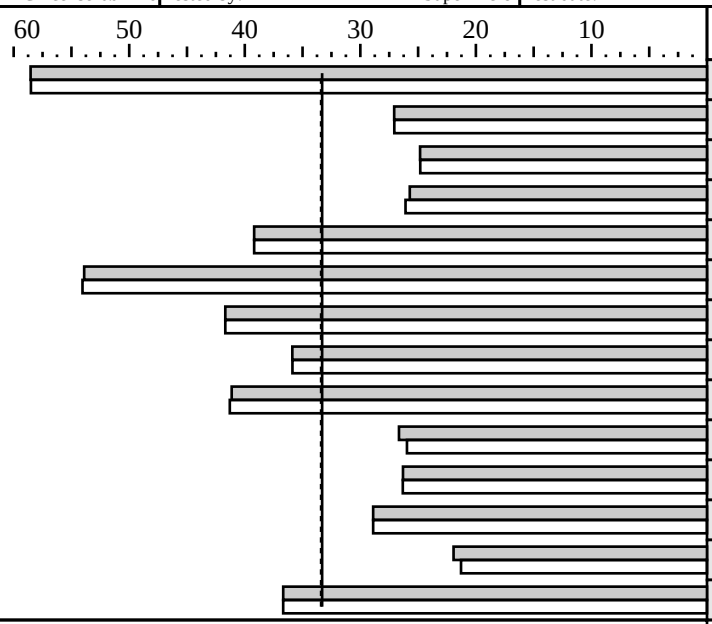
Copyright ©1999-2005, Standard Performance Evaluation Corporation

Supermicro
X6DHR-3G2 Motherboard

SPECfp_rate2000 = 33.3

SPECfp_rate_base2000 = 33.4

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	127	58.5	4	127	58.5
171.swim	4	531	27.1	4	532	27.1
172.mgrid	4	336	24.8	4	337	24.8
173.applu	4	379	25.7	4	373	26.1
177.mesa	4	166	39.2	4	166	39.2
178.galgel	4	250	53.9	4	249	54.0
179.art	4	289	41.7	4	289	41.7
183.equake	4	168	35.9	4	168	35.9
187.facerec	4	214	41.1	4	213	41.3
188.ammp	4	383	26.7	4	393	26.0
189.lucas	4	353	26.3	4	353	26.3
191.fma3d	4	337	28.9	4	337	28.9
200.sixtrack	4	233	21.9	4	240	21.3
301.apsi	4	329	36.7	4	329	36.7

Hardware

CPU:	Intel Xeon Processor (3.80 GHz, 2MB L2, 800 MHz bus)
CPU MHz:	3800
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip(Hyper-Threading Technology Enabled)
CPU(s) orderable:	1, 2
Parallel:	No
Primary Cache:	12k micro-ops I + 16KBD on chip
Secondary Cache:	2048KB(I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	8 x 2.0GB SMART DDR2 400MHz ECC
Disk Subsystem:	1 X 250GB Western Digital WD2500JD-00GBB0 SATA HDD
Other Hardware:	N/A

Software

Operating System:	Windows Server 2003 EE w/SP1
Compiler:	Intel C++ and Fortran Compiler 9.0 Build 20050430Z (32-bit) Microsoft Visual Studio .Net 2003(for libraries) SmartHeap Library Version 7.4 from http://www.microquill.com/
File System:	NTFS
System State:	Default

Notes/Tuning Information

```
+FDO: PASS1=  -Qprof_gen  PASS2=-Qprof_use
Base tuning for Fortran programs: -fast -Qansi_alias +FDO
Base tuning for C programs: -fast +FDO shlW32M.lib
shlW32M.lib is the SmartHeap Library
Portability:
178.galgel:   -FI /F32000000
191.fmma3d approved windowsdp src.alt used
Peak tuning:
168.wupwise:  -fast -Qansi_alias +FDO
171.swim:     -fast -Qansi_alias +FDO
172.mgrid:    -fast -Qansi_alias +FDO
173.applu:  -fast -Qscalar_rep- -Qauto  +FDO
177.mesa:   basepeak=yes
178.galgel:   -fast -Qansi_alias +FDO
179.art:      basepeak=yes
183.equake:   -QxP -Oa -Qrcd -Qipo shlW32M.lib +FDO
187.facerec:  -fast -Qunroll1 -Qscalar_rep- +FDO
```

Copyright ©1999-2005, Standard Performance Evaluation Corporation

Notes/Tuning Information (Continued)

```
188.ammp:     -fast -Oa +FDO shlW32M.lib
189.lucas:    -fast -Qprefetch- +FDO
191.fma3d:    basepeak=yes
200.sixtrack: -Qipo -QxP +FDO
301.apsi:     -fast +FDO
New 32-bt Windows tools used, approved in May-2005
Tested system was built with SC813T-500 Chassis.
Product description located as of:
http://www.supermicro.com/products/motherboard/Xeon800/E7520/X6DHR-3G2.cfm
The system bus runs at 800MHz
```