



CFP2000 Result

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Supermicro X6DH3-G2 Motherboard

SPECfp2000 = 1915

SPECfp_base2000 = 1909

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	59.4	2695	59.6	2683	
171.swim	3100	130	2390	131	2371	
172.mgrid	1800	115	1570	115	1568	
173.applu	2100	133	1583	130	1612	
177.mesa	1400	85.8	1631	85.8	1631	
178.galgel	2900	78.3	3704	78.0	3717	
179.art	2600	58.8	4421	58.8	4421	
183.quake	1300	47.5	2735	46.4	2800	
187.facerec	1900	100	1900	99.0	1919	
188.amp	2200	184	1193	183	1201	
189.lucas	2000	97.9	2042	97.9	2044	
191.fma3d	2100	139	1506	139	1506	
200.sixtrack	1100	147	748	147	748	
301.apsi	2600	186	1399	186	1396	

Hardware

CPU: Intel Xeon Processor (3.80 GHz, 2MB L2, 800 MHz bus)
 CPU MHz: 3800
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology Disabled)
 CPU(s) orderable: 1
 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 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.quake: -QxP -Oa -Qrcd -Qipo shlW32M.lib +FDO
187.facerec: -fast -Qunroll1 -Qscalar_rep- +FDO
```



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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-bit Windows tools used, approved in May-2005

Tested system was built with SC823T-R500RC Chassis.

Product description located as of:

<http://www.supermicro.com/products/motherboard/Xeon800/E7520/X6DH3-G2.cfm>

The system bus runs at 800MHz