



CFP2000 Result

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Supermicro X6DHR-3G2 Motherboard

SPECfp2000 = 1911

SPECfp_base2000 = 1902

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	59.5	2691	59.9	2672	
171.swim	3100	130	2384	130	2392	
172.mgrid	1800	115	1567	115	1567	
173.applu	2100	133	1580	131	1608	
177.mesa	1400	86.0	1629	86.0	1629	
178.galgel	2900	78.2	3708	78.2	3707	
179.art	2600	59.4	4377	59.4	4377	
183.quake	1300	47.7	2725	46.5	2798	
187.facerec	1900	101	1889	100	1899	
188.amp	2200	187	1179	183	1199	
189.lucas	2000	97.8	2045	98.0	2041	
191.fma3d	2100	140	1499	140	1499	
200.sixtrack	1100	148	746	147	746	
301.apsi	2600	186	1395	186	1394	

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 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.quake: -QxP -Oa -Qrcd -Qipo shlw32M.lib +FDO
187.facerec: -fast -Qunroll1 -Qscalar_rep- +FDO
```



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Supermicro
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SPECfp_base2000 =	1902

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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 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