



# CFP2000 Result

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IBM Corporation  
IBM x306(3.0E GHz, Pentium 4 processor)

SPECfp\_rate2000 = 16.4  
SPECfp\_rate\_base2000 = 15.9

SPEC license #: 11 | Tested by: IBM, Research Triangle Park, NC | Test date: Mar-2004 | Hardware Avail: Mar-2004 | Software Avail: Mar-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	147	25.2	2	147	25.2
171.swim	2	300	24.0	1	147	24.5
172.mgrid	2	296	14.1	2	298	14.0
173.applu	2	324	15.0	2	303	16.1
177.mesa	2	203	16.0	2	203	16.0
178.galgel	2	257	26.2	2	257	26.2
179.art	2	591	10.2	1	218	13.9
183.quake	2	153	19.7	2	155	19.5
187.facerec	2	197	22.4	2	196	22.5
188.amp	2	480	10.6	2	504	10.1
189.lucas	2	292	15.9	1	125	18.6
191.fma3d	2	313	15.5	2	313	15.5
200.sixtrack	2	306	8.35	2	302	8.44
301.apsi	2	497	12.1	2	497	12.1

### Hardware

CPU: Intel Pentium 4 (800Mhz FSB)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper Threading Enabled)  
CPU(s) orderable: 1  
Parallel: No  
Primary Cache: 12KB(I) micro-ops + 16KB(D) on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x1GB PC3200 CL3 ECC DDR SDRAM UDIMM (Samsung)  
Disk Subsystem: 1x80GB S-ATA 7200 RPM (Maxtor 6Y080M0)  
Other Hardware: None

### Software

Operating System: Windows Server 2003, Standard Edition (Build 3790)  
Compiler: Intel C++ Compiler 8.0 Build 20040211Z  
Intel Fortran Compiler 8.0 Build 20040211Z  
File System: NTFS  
System State: Default

## Notes/Tuning Information

Portability:

178.galgel: -FI /F32000000

ONESTEP=yes for all base and peak runs +FDO: PASS1= -Qprof\_gen PASS2=-Qprof\_use (-QxP not used in PASS1)

Base tuning: -QxP -fast -Qansi\_alias +FDO

Peak tuning:

168.wupwise: -QxP -fast -Qansi\_alias +FDO

171.swim: -QxP -fast -Qansi\_alias +FDO users=1

172.mgrid: -QxP -fast -Qansi\_alias +FDO

173.applu: -QxP -fast -Qscalar\_rep- -Qauto +FDO

177.mesa: -QxP -fast -Oa -Qscalar\_rep- +FDO

178.galgel: -QxP -fast -Qansi\_alias +FDO

179.art: -Oa -Qipo -Qunroll4 -Zp4 users=1

183.quake: -QxP -Oa -Qrcd -Qipo +FDO

187.facerec: -QxP -fast -Qunroll11 -Qscalar\_rep- +FDO

188.amp: -QxP -Oa

189.lucas: -QxP -fast -Qprefetch- +FDO users=1



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## Notes/Tuning Information (Continued)

191.fma3d: basepeak=yes  
200.sixtrack: -QxP -Qipo +FDO  
301.apsi: -QxP -fast +FDO

NOTE:  
Hyper-Threading (ht) is enabled