



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

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

SPECfp2000 = 1370
SPECfp_base2000 = 1369

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	74.0	2162	74.0	2161	[Bar chart showing ratio bars for 168.wupwise]			
171.swim	3100	144	2153	144	2148	[Bar chart showing ratio bars for 171.swim]			
172.mgrid	1800	150	1204	150	1202	[Bar chart showing ratio bars for 172.mgrid]			
173.applu	2100	165	1270	160	1311	[Bar chart showing ratio bars for 173.applu]			
177.mesa	1400	105	1331	105	1331	[Bar chart showing ratio bars for 177.mesa]			
178.galgel	2900	127	2288	127	2288	[Bar chart showing ratio bars for 178.galgel]			
179.art	2600	204	1275	207	1256	[Bar chart showing ratio bars for 179.art]			
183.quake	1300	79.7	1631	79.7	1630	[Bar chart showing ratio bars for 183.quake]			
187.facerec	1900	113	1677	113	1677	[Bar chart showing ratio bars for 187.facerec]			
188.amp	2200	232	947	236	933	[Bar chart showing ratio bars for 188.amp]			
189.lucas	2000	124	1617	124	1615	[Bar chart showing ratio bars for 189.lucas]			
191.fma3d	2100	159	1322	159	1322	[Bar chart showing ratio bars for 191.fma3d]			
200.sixtrack	1100	202	543	201	549	[Bar chart showing ratio bars for 200.sixtrack]			
301.apsi	2600	265	980	266	979	[Bar chart showing ratio bars for 301.apsi]			

Hardware

CPU: Intel Pentium 4 (800Mhz FSB)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper Threading Disabled)
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

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 -Qunroll14 -Zp4

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



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

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

SPECfp2000 =	1370
SPECfp_base2000 =	1369

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

Notes/Tuning Information (Continued)

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

NOTE:
Hyper-Threading(ht) is disabled