CFP2000 Result

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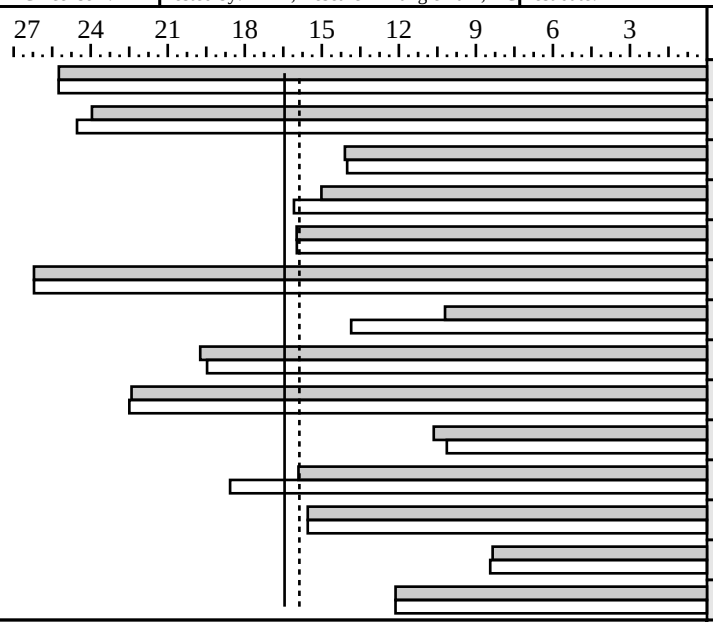
IBM Corporation

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.equake	2	153	19.7	2	155	19.5
187.facerec	2	197	22.4	2	196	22.5
188.ammp	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.equake:   -QxP -Oa -Qrcd -Qipo +FDO
187.facerec:  -QxP -fast -Qunroll1 -Qscalar_rep- +FDO
188.ammp:     -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
```