



CFP2000 Result

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Hewlett-Packard Company
ProLiant BL20p G2(3.2GHz/1MB L3 cache, Intel Xeon)

SPECfp_rate2000 = 13.9
SPECfp_rate_base2000 = 13.6

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Oct-2003 Hardware Avail: Dec-2003 Software Avail: Sep-2003

24 21 18 15 12 9 6 3							Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
							168.wupwise	1	105	17.7	1	105	17.7
							171.swim	1	184	19.6	1	184	19.6
							172.mgrid	1	159	13.1	1	159	13.1
							173.applu	1	194	12.6	1	187	13.0
							177.mesa	1	108	15.0	1	108	15.0
							178.galgel	1	152	22.2	1	151	22.2
							179.art	1	299	10.1	1	297	10.2
							183.quake	1	106	14.2	1	93.0	16.2
							187.facerec	1	128	17.2	1	126	17.4
							188.amp	1	271	9.42	1	266	9.60
							189.lucas	1	141	16.5	1	139	16.7
							191.fma3d	1	182	13.4	1	182	13.4
							200.sixtrack	1	186	6.84	1	183	6.98
							301.apsi	1	258	11.7	1	256	11.8

Hardware

CPU: Intel Xeon (3.2GHz, 533MHz bus)
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading disabled)
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 12K micro-ops I + 8KBD on chip
Secondary Cache: 512KB(I+D) on chip
L3 Cache: 1024KB(I+D) on chip
Other Cache: N/A
Memory: 4x512MB PC2100
Disk Subsystem: 2x36.4GB 15K Ultra320 SCSI
Other Hardware:

Software

Operating System: Windows 2000 Server(Build 2195 SP3)
Compiler: Intel C++ Compiler 7.1 Build 20030813Z
Intel Fortran Compiler 7.1 build 20030813Z
Microsoft Visual Studio .NET 7.0.9466 (for libraries)
MicroQuill Smartheap Library 7.0
File System: NTFS
System State: Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning: -QxW -Qipo -O3 +FDO ONESTEP=yes
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -Qipo -QxW +FDO ONESTEP=yes
171.swim: -Qipo -QxW -O3 +FDO ONESTEP=yes
172.mgrid: -Qipo -QaxW -O3 +FDO ONESTEP=yes
173.applu: -Qipo -QxW -O3 -Qscalar_rep- -Qauto +FDO ONESTEP=yes
177.mesa: -Qipo -QxW -O3 +FDO ONESTEP=yes
178.galgel: -Qipo -QxW -O3 +FDO ONESTEP=yes
179.art: -Qipo -Oa -Qunroll4 -Zp4 ONESTEP=yes
183.quake: -Qipo -QxW -Oa -Qrcd +FDO shlw32M.lib ONESTEP=yes
187.facerec: -Qipo -QaxW -O3 -Qunroll1 -Qscalar_rep- +FDO ONESTEP=yes
188.amp: -QxW -Oa ONESTEP=yes
189.lucas: -Qipo -QaxW
191.fma3d: basepeak=1
```



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Notes/Tuning Information (Continued)

200.sixtrack: -Qipo -QxW +FDO ONESTEP=yes
301.apsi: -Qipo -QxW -O3 +FDO ONESTEP=yes
BIOS Configuration Notes
Hyper Threading disabled in BIOS