



CFP2000 Result

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

SPECfp_rate2000 = 19.6
SPECfp_rate_base2000 = 19.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	119	31.1	2	120	30.9
171.swim	2	400	18.0	2	399	18.0
172.mgrid	2	232	18.0	2	231	18.1
173.applu	2	315	15.5	2	312	15.6
177.mesa	2	109	29.9	2	109	29.9
178.galgel	2	219	30.8	2	219	30.7
179.art	2	669	9.01	2	648	9.30
183.quake	2	166	18.2	2	132	22.9
187.facerec	2	159	27.7	2	158	28.0
188.amp	2	323	15.8	2	322	15.8
189.lucas	2	253	18.3	2	253	18.3
191.fma3d	2	251	19.4	2	251	19.4
200.sixtrack	2	188	13.6	2	185	13.8
301.apsi	2	314	19.2	2	318	19.0

Hardware

CPU: Intel Xeon (3.2GHz, 533MHz bus)
 CPU MHz: 3200
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 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
```