# CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

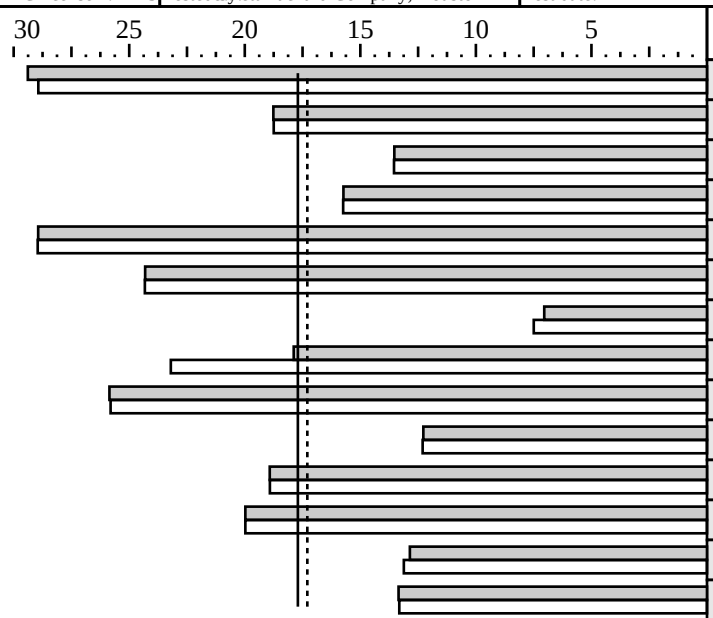
## Hewlett-Packard Company

## ProLiant BL20p G2 (3.06GHz, Intel Xeon)

SPECfp_rate2000 = 17.7

SPECfp_rate_base2000 = 17.3

SPEC license #: 3 Tested by: Hewlett-Packard Company, Houston TX Test date: Aug-2003 Hardware Avail: Apr-2003 Software Avail: Jun-2003




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 2 | 126 | 29.4 | 2 | 128 | 28.9 |
| 171.swim | 2 | 383 | 18.8 | 2 | 384 | 18.7 |
| 172.mgrid | 2 | 309 | 13.5 | 2 | 308 | 13.5 |
| 173.applu | 2 | 310 | 15.7 | 2 | 309 | 15.7 |
| 177.mesa | 2 | 112 | 28.9 | 2 | 112 | 29.0 |
| 178.galgel | 2 | 277 | 24.3 | 2 | 277 | 24.3 |
| 179.art | 2 | 857 | 7.04 | 2 | 805 | 7.50 |
| 183.equake | 2 | 169 | 17.9 | 2 | 130 | 23.2 |
| 187.facerec | 2 | 170 | 25.9 | 2 | 171 | 25.8 |
| 188.ammp | 2 | 416 | 12.3 | 2 | 415 | 12.3 |
| 189.lucas | 2 | 245 | 18.9 | 2 | 245 | 18.9 |
| 191.fma3d | 2 | 244 | 20.0 | 2 | 244 | 20.0 |
| 200.sixtrack | 2 | 199 | 12.9 | 2 | 195 | 13.1 |
| 301.apsi | 2 | 452 | 13.3 | 2 | 453 | 13.3 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon (3.06GHz, 533MHz bus) |
| CPU MHz: | 3066 |
| 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: | None |
| Other Cache: | N/A |
| Memory: | 2x1024MB PC2100 |
| Disk Subsystem: | 2x18.2GB 15K Ultra3 SCSI |
| Other Hardware: | |

### Software

| | |
|---|---|
| Operating System: | Windows 2000 Server (Build 2195 SP3) |
| Compiler: | Intel C++ Compiler 7.1 Build 20030801Z<br>Microsoft Visual Studio Enterprise Edition 6.0 (for libraries)<br>Intel Fortran Compiler 7.1 build 20030307Z<br>MicroQuill Smartheap Library 7.0 |
| File System: | NTFS |
| System State: | Hyperthreading disabled in BIOS |

## 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- +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.equake:     -Qipo -QxW  -Oa +FDO shlw32M.lib ONESTEP=yes
187.facerec:    -Qipo -QxW  -O3 -Qunroll1 -Qscalar_rep- +FDO ONESTEP=yes
188.ammp:       -QxW  -Oa ONESTEP=yes
189.lucas:      -Qipo -QaxW
191.fma3d:      basepeak=1
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation



## Notes/Tuning Information (Continued)

```
200.sixtrack:   -Qipo -QxW  +FDO ONESTEP=yes
301.apsi:       -Qipo -QxW  -O3 +FDO ONESTEP=yes
```