# CFP2000 Result

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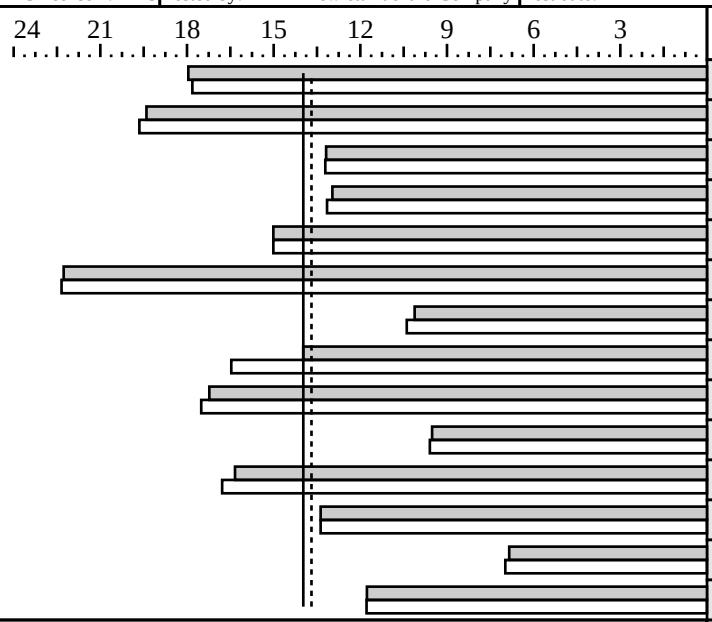
## Hewlett-Packard Company

ProLiant DL360 G3(3.2GHz/1MB L3 cache, Intel Xeon)

SPECfp_rate2000 = 14.0

SPECfp_rate_base2000 = 13.7

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




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 1 | 103 | 18.0 | 1 | 104 | 17.8 |
| 171.swim | 1 | 185 | 19.4 | 1 | 183 | 19.6 |
| 172.mgrid | 1 | 158 | 13.2 | 1 | 158 | 13.2 |
| 173.applu | 1 | 188 | 13.0 | 1 | 185 | 13.2 |
| 177.mesa | 1 | 108 | 15.0 | 1 | 108 | 15.0 |
| 178.galgel | 1 | 151 | 22.3 | 1 | 151 | 22.3 |
| 179.art | 1 | 298 | 10.1 | 1 | 290 | 10.4 |
| 183.equake | 1 | 108 | 14.0 | 1 | 91.6 | 16.5 |
| 187.facerec | 1 | 128 | 17.2 | 1 | 126 | 17.5 |
| 188.ammp | 1 | 268 | 9.52 | 1 | 266 | 9.59 |
| 189.lucas | 1 | 142 | 16.3 | 1 | 138 | 16.8 |
| 191.fma3d | 1 | 182 | 13.4 | 1 | 182 | 13.4 |
| 200.sixtrack | 1 | 186 | 6.85 | 1 | 183 | 6.98 |
| 301.apsi | 1 | 256 | 11.8 | 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<br>Intel Fortran Compiler 7.1 build 20030813Z<br>Microsoft Visual Studio .NET 7.0.9466 (for libraries)<br>MicroQuill Smartheap Library 7.0 |
| File System: | NTFS |
| System State: | Hyper Threading 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- -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.equake:     -Qipo -QxW  -Oa -Qrcd +FDO shlw32M.lib ONESTEP=yes
187.facerec:    -Qipo -QaxW  -O3 -Qunroll1 -Qscalar_rep- +FDO ONESTEP=yes
188.ammp:       -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
```