# CFP2000 Result

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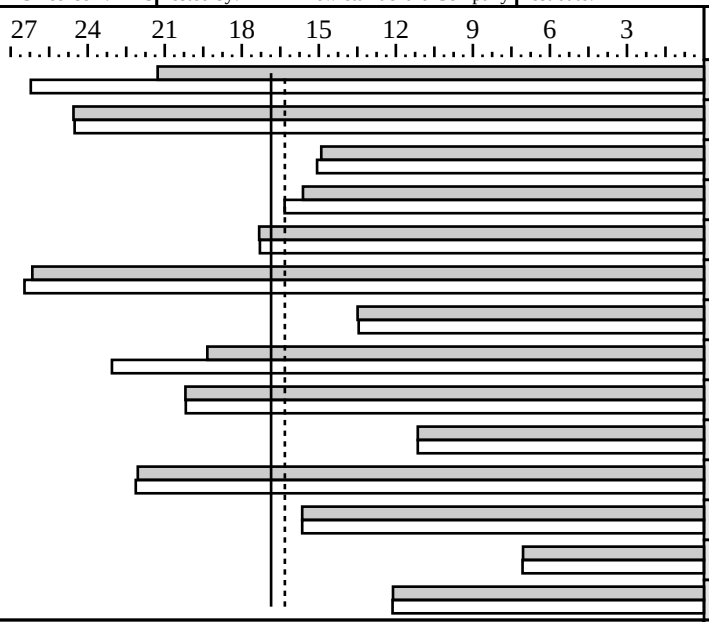
## Hewlett-Packard Company
## ProLiant DL380 G4 (3.4GHz, Intel Xeon)

SPECfp_rate2000 = 16.9

SPECfp_rate_base2000 = 16.3

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Jul-2004 | Hardware Avail: Aug-2004 | Software Avail: Aug-2004




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 1 | 87.2 | 21.3 | 1 | 70.8 | 26.2 |
| 171.swim | 1 | 146 | 24.6 | 1 | 147 | 24.5 |
| 172.mgrid | 1 | 140 | 14.9 | 1 | 139 | 15.1 |
| 173.applu | 1 | 156 | 15.6 | 1 | 149 | 16.3 |
| 177.mesa | 1 | 93.8 | 17.3 | 1 | 93.9 | 17.3 |
| 178.galgel | 1 | 129 | 26.2 | 1 | 127 | 26.5 |
| 179.art | 1 | 224 | 13.5 | 1 | 224 | 13.4 |
| 183.equake | 1 | 78.0 | 19.3 | 1 | 65.4 | 23.1 |
| 187.facerec | 1 | 109 | 20.2 | 1 | 109 | 20.2 |
| 188.ammp | 1 | 229 | 11.1 | 1 | 229 | 11.1 |
| 189.lucas | 1 | 105 | 22.0 | 1 | 105 | 22.1 |
| 191.fma3d | 1 | 156 | 15.6 | 1 | 156 | 15.6 |
| 200.sixtrack | 1 | 181 | 7.05 | 1 | 181 | 7.07 |
| 301.apsi | 1 | 249 | 12.1 | 1 | 249 | 12.1 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon (3.4GHz, 1MB L2, 800MHz bus) |
| CPU MHz: | 3400 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 1 chip, 1 core/chip (HT Technology disabled) |
| CPU(s) orderable: | 1,2 |
| Parallel: | No |
| Primary Cache: | 16K micro-ops I + 16KBD on chip |
| Secondary Cache: | 1024KB(I+D) on chip |
| L3 Cache: | N/A |
| Other Cache: | N/A |
| Memory: | 4x512MB DDR2-400 |
| Disk Subsystem: | 1x18.2GB 15K Ultra320 SCSI |
| Other Hardware: | |

### Software

| | |
|---|---|
| Operating System: | Windows Server 2003 Standard (Build 3790) |
| Compiler: | Intel C++ Compiler 8.0 Build 20031211Z<br>Intel Fortran Compiler 8.0 build 20040125Z<br>Microsoft Visual Studio .NET 7.0.9466 (for libraries)<br>MicroQuill Smartheap Library 7.0 |
| File System: | NTFS |
| System State: | Default |

## Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen  PASS2=-Qprof_use
+FDO*: FDO (-QxP not used in PASS1 to enable cross-compilation)

Base tuning for All Programs: -QxN -fast +FDO* ONESTEP=yes
Portability flags:
  178.galgel: -FI /F32000000
Peak tuning:
  168.wupwise:    -QxP  -fast -Qansi_alias                    +FDO*
  171.swim:       -QxP  -fast                        -f77rtl +FDO ONESTEP=yes
  172.mgrid:      -QxP  -fast -Qansi_alias                    +FDO*
  173.applu:      -QxP  -fast -Qscalar_rep- -Qauto -f77rtl +FDO ONESTEP=yes
  177.mesa:       -QxP  -fast                                 +FDO ONESTEP=yes
  178.galgel:     -QxP  -fast                                 +FDO ONESTEP=yes
  179.art:              -fast -Oa -Qunroll4 -Zp4                   ONESTEP=yes
  183.equake:    -QxP  -fast -Oa -Qrcd                    +FDO ONESTEP=yes shlw32M.lib
  187.facerec:    -QaxN -fast -Qunroll1 -Qscalar_rep- -fpp +FDO ONESTEP=yes
  188.ammp:       basepeak=1
```

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## Notes/Tuning Information (Continued)

```
    189.lucas:      -QaxN-fast   <typo, included for completeness>
    191.fma3d:      basepeak=1
    200.sixtrack:   -QxP  -fast                              +FDO*
    301.apsi:       -QxP  -fast                    -f77rtl +FDO ONESTEP=yes
  BIOS Configuration Notes
    HT Technology disabled
```