# CFP2000 Result

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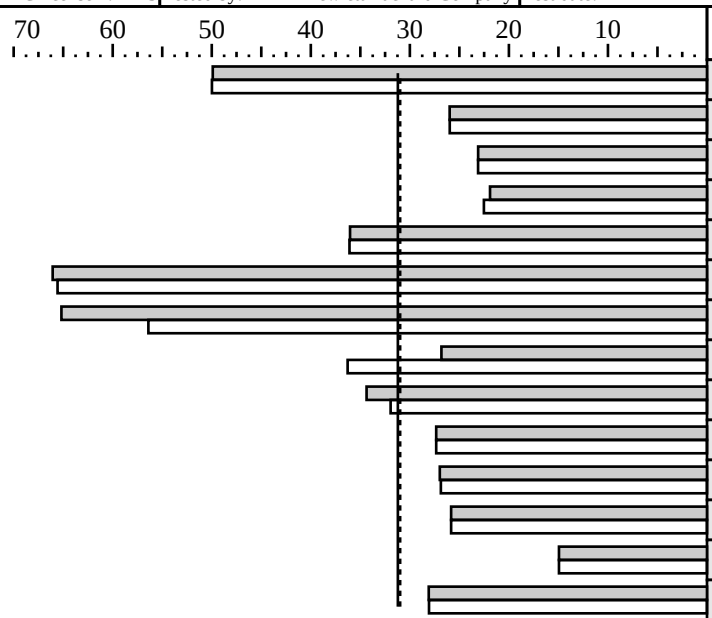
## Hewlett-Packard Company
## ProLiant ML370 G4 (3.6GHz, Intel Xeon)

SPECfp_rate2000 = 31.2

SPECfp_rate_base2000 = 31.0

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Feb-2005 | Hardware Avail: Feb-2005 | Software Avail: Feb-2005




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 2 | 74.4 | 49.9 | 2 | 74.3 | 50.0 |
| 171.swim | 2 | 277 | 26.0 | 2 | 277 | 26.0 |
| 172.mgrid | 2 | 181 | 23.1 | 2 | 181 | 23.1 |
| 173.applu | 2 | 222 | 21.9 | 2 | 216 | 22.5 |
| 177.mesa | 2 | 90.1 | 36.0 | 2 | 90.0 | 36.1 |
| 178.galgel | 2 | 102 | 66.1 | 2 | 103 | 65.6 |
| 179.art | 2 | 92.5 | 65.2 | 2 | 107 | 56.4 |
| 183.equake | 2 | 112 | 26.8 | 2 | 83.1 | 36.3 |
| 187.facerec | 2 | 128 | 34.4 | 2 | 138 | 31.9 |
| 188.ammp | 2 | 187 | 27.3 | 2 | 187 | 27.3 |
| 189.lucas | 2 | 172 | 27.0 | 2 | 173 | 26.9 |
| 191.fma3d | 2 | 189 | 25.8 | 2 | 189 | 25.8 |
| 200.sixtrack | 2 | 171 | 14.9 | 2 | 171 | 14.9 |
| 301.apsi | 2 | 215 | 28.1 | 2 | 215 | 28.1 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon (3.6GHz, 2MB L2, 800MHz bus) |
| CPU MHz: | 3600 |
| FPU: | Integrated |
| CPU(s) enabled: | 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology disabled) |
| CPU(s) orderable: | 1,2 |
| Parallel: | No |
| Primary Cache: | 12K micro-ops I + 16KBD on chip |
| Secondary Cache: | 2048KB(I+D) on chip |
| L3 Cache: | N/A |
| Other Cache: | N/A |
| Memory: | 8x512MB DDR2-400 |
| Disk Subsystem: | 1x18.2GB 15K Ultra320 SCSI |
| Other Hardware: | |

### Software

| | |
|---|---|
| Operating System: | Windows Server 2003 Standard (Build 3790) |
| Compiler: | Intel C++ Compiler 8.1 Build 20040802Z<br>Intel Fortran Compiler 8.1 build 20040802Z<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


Base tuning Base tuning:       -fast -Qansi_alias +FDO
Portability flags:
  178.galgel: -FI /F32000000
Peak tuning:
  168.wupwise:          -fast -Qansi_alias                  +FDO
  171.swim:             -fast                      -f77rtl +FDO ONESTEP=yes
  172.mgrid:            -fast -Qansi_alias                  +FDO
  173.applu:            -fast -Qscalar_rep- -Qauto -f77rtl +FDO ONESTEP=yes
  177.mesa:             -fast                               +FDO ONESTEP=yes
  178.galgel:           -fast                               +FDO ONESTEP=yes
  179.art:              -fast -Oa -Qunroll4 -Zp4                 ONESTEP=yes
  183.equake:          -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
  191.fma3d:      basepeak=1
  200.sixtrack:         -fast                                +FDO
  301.apsi:             -fast                        -f77rtl +FDO ONESTEP=yes
BIOS Configuration Notes
  Hyper-Threading Technology disabled
```