# CFP2000 Result

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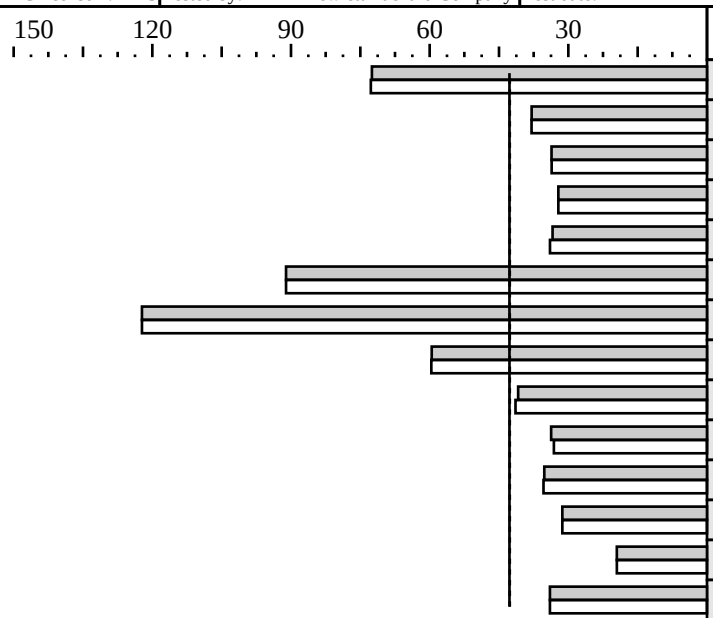
## Hewlett-Packard Company

ProLiant ML570 G4 (3.4GHz, Intel Xeon processor 7140M)

SPECfp_rate2000 = 42.7

SPECfp_rate_base2000 = 42.7

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Aug-2006 | Hardware Avail: Aug-2006 | Software Avail: May-2006




| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|---|---|---|---|---|---|---|
| 168.wupwise | 4 | 102 | 72.5 | 4 | 102 | 72.7 |
| 171.swim | 4 | 379 | 37.9 | 4 | 379 | 38.0 |
| 172.mgrid | 4 | 248 | 33.6 | 4 | 249 | 33.6 |
| 173.applu | 4 | 303 | 32.2 | 4 | 303 | 32.2 |
| 177.mesa | 4 | 194 | 33.4 | 4 | 191 | 34.0 |
| 178.galgel | 4 | 148 | 91.1 | 4 | 148 | 91.1 |
| 179.art | 4 | 98.7 | 122 | 4 | 98.7 | 122 |
| 183.equake | 4 | 101 | 59.6 | 4 | 101 | 59.6 |
| 187.facerec | 4 | 216 | 40.9 | 4 | 213 | 41.4 |
| 188.ammp | 4 | 303 | 33.7 | 4 | 308 | 33.1 |
| 189.lucas | 4 | 264 | 35.2 | 4 | 262 | 35.4 |
| 191.fma3d | 4 | 311 | 31.3 | 4 | 311 | 31.3 |
| 200.sixtrack | 4 | 262 | 19.5 | 4 | 262 | 19.5 |
| 301.apsi | 4 | 355 | 34.0 | 4 | 355 | 34.0 |

### Hardware

| | |
|---|---|
| CPU: | Intel Xeon processor 7140M (800MHz system bus) |
| CPU MHz: | 3400 |
| FPU: | Integrated |
| CPU(s) enabled: | 4 cores, 1 chip, 2 cores/chip (Hyper-Threading Technology enabled) |
| CPU(s) orderable: | 1,2,4 chips |
| Parallel: | No |
| Primary Cache: | 12 K I micro-ops + 16 KB D on chip per core |
| Secondary Cache: | 1 MB I+D on chip per core |
| L3 Cache: | 16 MB on chip per chip |
| Other Cache: | N/A |
| Memory: | 32 GB (16x2048MB PC2-3200 dual-rank) |
| Disk Subsystem: | 1x36 GB 10 K SAS |
| Other Hardware: | |

### Software

| | |
|---|---|
| Operating System: | Windows Server 2003 Enterprise SP1 |
| Compiler: | Intel C++ Compiler for 32-bit applications, (Version 9.1 Build 20060323Z)<br>Intel Fortran Compiler for 32-bit applications, (Version 9.1 Build 20060323Z)<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 for Fortran programs: -fast -Qansi_alias +FDO
Base tuning for C programs:       -fast              +FDO shlw32M.lib
Portability flags:
  178.galgel: -FI /F32000000
Peak tuning:
  168.wupwise:  -fast -Qansi_alias                 +FDO
  171.swim:     -fast                              +FDO ONESTEP=yes
  172.mgrid:    -fast -Qansi_alias                 +FDO
  173.applu:    basepeak=1
  177.mesa:     -fast                              +FDO ONESTEP=yes
  178.galgel:   basepeak=1
  179.art:      basepeak=1
  183.equake:   -fast -Oa -Qrcd                    +FDO ONESTEP=yes shlw32M.lib
  187.facerec:  -fast -Qunroll1 -Qscalar_rep-       +FDO ONESTEP=yes
  188.ammp:     -fast -Qansi_alias                 +FDO
```

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## Notes/Tuning Information (Continued)

```
    189.lucas:     -fast
    191.fma3d:     basepeak=1
    200.sixtrack: -fast                                  +FDO
    301.apsi:              basepeak=1
  BIOS Configuration Notes
    Hyper-Threading Technology enabled
```