CFP2000 Result

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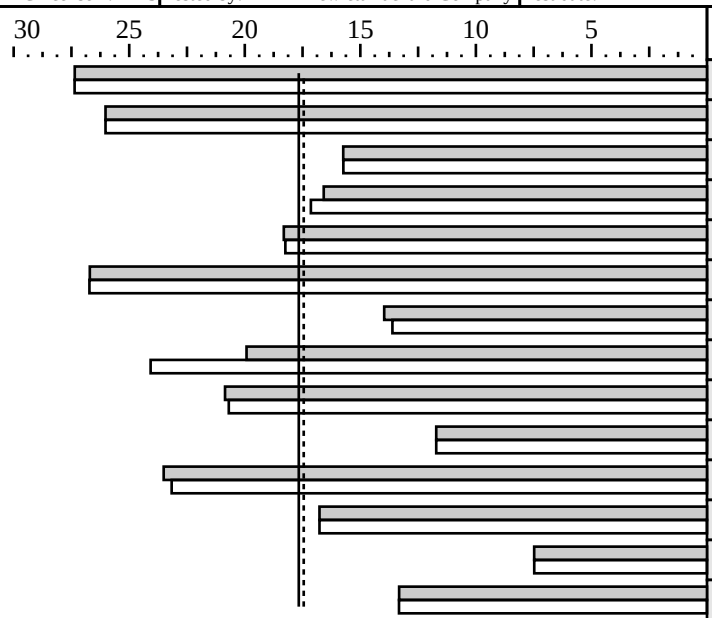
Hewlett-Packard Company
ProLiant ML370 G4 (3.6GHz, Intel Xeon)

SPECfp_rate2000 = 17.7

SPECfp_rate_base2000 = 17.4

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	1	67.8	27.4	1	67.8	27.4
171.swim	1	138	26.0	1	138	26.0
172.mgrid	1	133	15.7	1	133	15.7
173.applu	1	147	16.6	1	142	17.1
177.mesa	1	88.7	18.3	1	89.0	18.2
178.galgel	1	126	26.7	1	126	26.7
179.art	1	216	14.0	1	222	13.6
183.equake	1	75.7	19.9	1	62.6	24.1
187.facerec	1	106	20.9	1	107	20.7
188.ammp	1	218	11.7	1	218	11.7
189.lucas	1	98.7	23.5	1	100	23.2
191.fma3d	1	145	16.8	1	145	16.8
200.sixtrack	1	171	7.48	1	171	7.47
301.apsi	1	226	13.3	1	226	13.3

Hardware

CPU:	Intel Xeon (3.6GHz, 1MB L2, 800MHz bus)
CPU MHz:	3600
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:	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 8.0 Build 20031211Z Intel Fortran Compiler 8.0 build 20040125Z Microsoft Visual Studio .NET 7.0.9466 (for libraries) 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 Base tuning:  -QxP -fast -Qansi_alias +FDO*
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
```

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Notes/Tuning Information (Continued)

```
    188.ammp:       basepeak=1
    189.lucas:      -QaxN -fast
    191.fma3d:      basepeak=1
    200.sixtrack:   -QxP  -fast                              +FDO*
    301.apsi:       -QxP  -fast                   -f77rtl +FDO ONESTEP=yes
  BIOS Configuration Notes
    HT Technology disabled
```