CFP2000 Result

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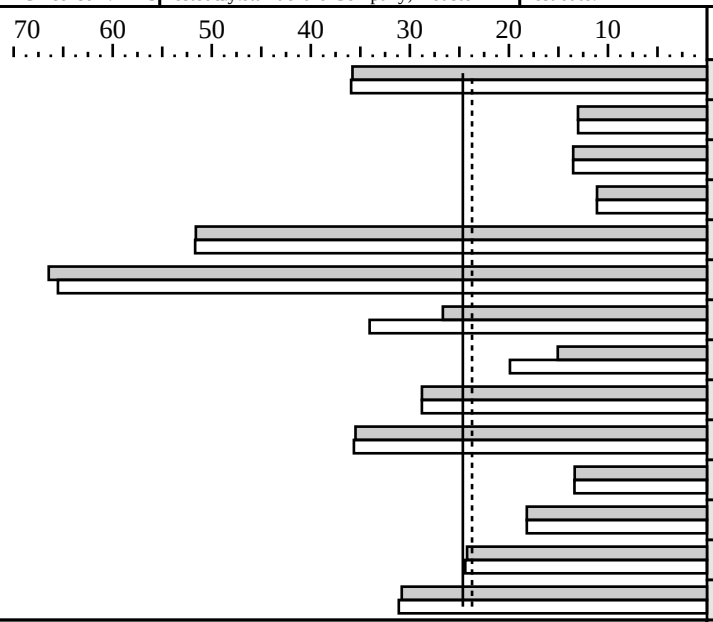
Hewlett-Packard Company

ProLiant DL580 G2(2.8GHz, Intel Xeon MP)

SPECfp_rate2000 = 24.6

SPECfp_rate_base2000 = 23.7

SPEC license #: 3 Tested by: Hewlett-Packard Company, Houston TX Test date: Sep-2003 Hardware Avail: Jul-2003 Software Avail: Jun-2003



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	207	35.8	4	207	35.9
171.swim	4	1104	13.0	4	1105	13.0
172.mgrid	4	618	13.5	4	618	13.5
173.applu	4	878	11.1	4	877	11.1
177.mesa	4	126	51.6	4	126	51.7
178.galgel	4	202	66.5	4	205	65.5
179.art	4	452	26.7	4	354	34.1
183.equake	4	400	15.1	4	303	19.9
187.facerec	4	306	28.8	4	306	28.8
188.ammp	4	288	35.5	4	286	35.6
189.lucas	4	695	13.4	4	694	13.4
191.fma3d	4	536	18.2	4	536	18.2
200.sixtrack	4	211	24.2	4	209	24.4
301.apsi	4	391	30.8	4	388	31.1

Hardware

CPU:	Intel Xeon MP (2.8GHz, 400MHz bus)
CPU MHz:	2800
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip (Hyper-Threading disabled)
CPU(s) orderable:	1,2,4
Parallel:	No
Primary Cache:	12K micro-ops I + 8KBD on chip
Secondary Cache:	512KB(I+D) on chip
L3 Cache:	2048KB(I+D) on chip
Other Cache:	N/A
Memory:	16x512MB PC1600
Disk Subsystem:	2x18.2GB 15K Ultra3 SCSI
Other Hardware:	

Software

Operating System:	Windows 2000 Advanced Server(Build 2195 SP3)
Compiler:	Intel C++ Compiler 7.1 Build 20030801Z Microsoft Visual Studio .NET 7.0.9466 (for libraries) Intel Fortran Compiler 7.1 build 20030307Z MicroQuill Smartheap Library 7.0
File System:	NTFS
System State:	Hyperthreading 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)

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200.sixtrack:   -Qipo -QxW  +FDO ONESTEP=yes
301.apsi:       -Qipo -QxW  -O3 +FDO ONESTEP=yes
```