CFP2000 Result

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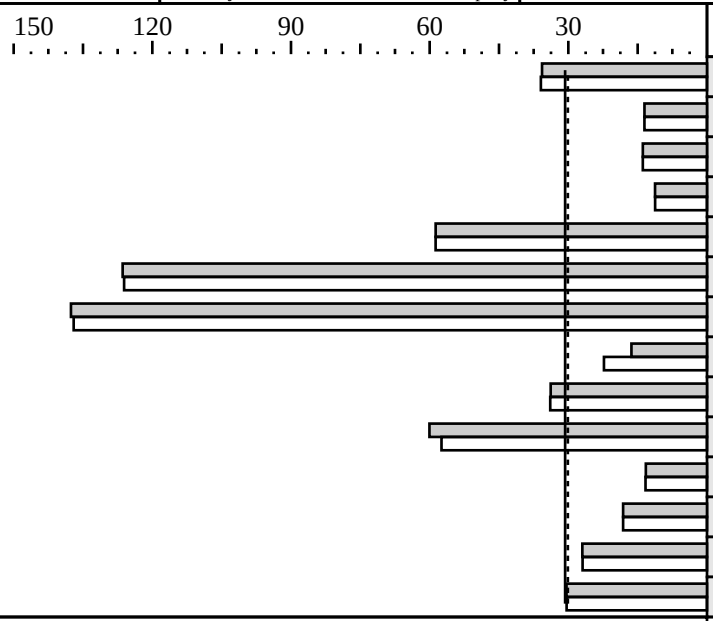
Hewlett-Packard Company

ProLiant DL580 G2 (3.0GHz, Intel Xeon MP)

SPECfp_rate2000 = 30.7

SPECfp_rate_base2000 = 30.1

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	208	35.7	4	207	35.9
171.swim	4	1063	13.5	4	1063	13.5
172.mgrid	4	602	13.9	4	601	13.9
173.applu	4	867	11.2	4	868	11.2
177.mesa	4	111	58.7	4	111	58.7
178.galgel	4	106	126	4	107	126
179.art	4	87.7	138	4	88.0	137
183.equake	4	369	16.3	4	271	22.3
187.facerec	4	261	33.8	4	260	33.9
188.ammp	4	170	60.0	4	178	57.4
189.lucas	4	701	13.2	4	698	13.3
191.fma3d	4	537	18.1	4	537	18.1
200.sixtrack	4	189	27.0	4	190	26.9
301.apsi	4	397	30.4	4	397	30.4

Hardware

CPU:	Intel Xeon MP (3.0GHz, 400MHz bus)
CPU MHz:	3000
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:	4096KB(I+D) on chip
Other Cache:	N/A
Memory:	16x512MB PC1600
Disk Subsystem:	2x18.2GB 15K Ultra320 SCSI
Other Hardware:	

Software

Operating System:	Windows 2000 Advanced Server (Build 2195 SP3)
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
Base tuning for all programs: -QxN -Qipo -O3 +FDO ONESTEP=yes
Portability flags:
  178.galgel: -FI /F32000000
Peak tuning:
  168.wupwise:    -Qipo -QxN  +FDO ONESTEP=yes
  171.swim:       -Qipo -QxN  -O3 +FDO ONESTEP=yes
  172.mgrid:      -Qipo -QaxN -O3 +FDO ONESTEP=yes
  173.applu:      -Qipo -QxN  -O3 -Qscalar_rep- -Qauto +FDO ONESTEP=yes
  177.mesa:       -Qipo -QxN  -O3 +FDO ONESTEP=yes
  178.galgel:     -Qipo -QxN  -O3 +FDO ONESTEP=yes
  179.art:        -Qipo -Oa -Qunroll4 -Zp4 ONESTEP=yes
  183.equake:     -Qipo -QxN  -Oa -Qrcd +FDO shlw32M.lib ONESTEP=yes
  187.facerec:    -Qipo -QaxN  -O3 -Qunroll1 -Qscalar_rep- +FDO ONESTEP=yes
  188.ammp:       -QxN  -Oa ONESTEP=yes
  189.lucas:      -Qipo -QaxN
  191.fma3d:      basepeak=1
```

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Notes/Tuning Information (Continued)

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    200.sixtrack:   -Qipo -QxN  +FDO ONESTEP=yes
    301.apsi:       -Qipo -QxN  -O3 +FDO ONESTEP=yes
  BIOS Configuration Notes
    Hyper Threading disabled
```