CFP2000 Result

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Hewlett-Packard Company

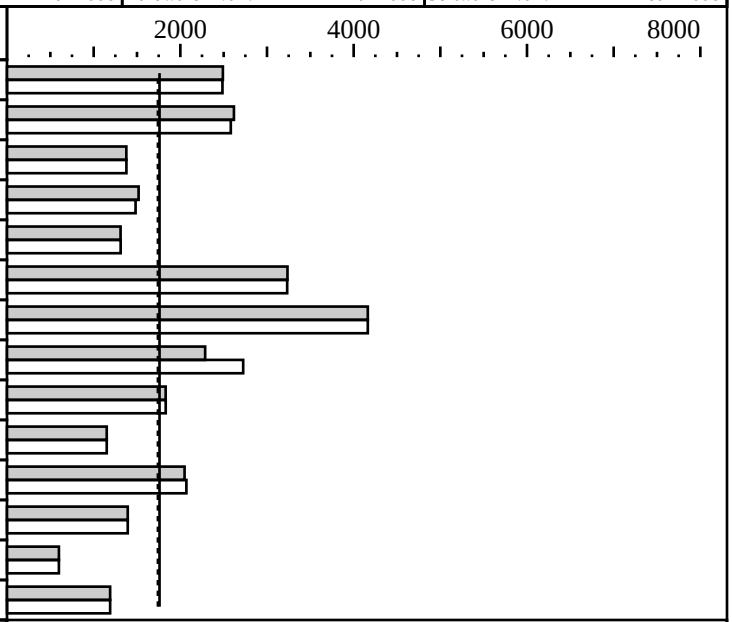
ProLiant DL320 G4 (3.0GHz Intel Pentium D Processor 930)

SPECfp2000 = 1760

SPECfp_base2000 = 1741

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	64.2	2491	64.4	2486
171.swim	3100	118	2618	120	2582
172.mgrid	1800	131	1377	131	1378
173.applu	2100	138	1518	142	1484
177.mesa	1400	107	1310	107	1311
178.galgel	2900	89.6	3236	89.7	3233
179.art	2600	62.5	4163	62.5	4163
183.equake	1300	56.9	2286	47.7	2725
187.facerec	1900	104	1831	104	1831
188.ammp	2200	191	1151	191	1151
189.lucas	2000	97.6	2049	96.6	2070
191.fma3d	2100	151	1393	151	1393
200.sixtrack	1100	184	599	184	599
301.apsi	2600	218	1190	218	1190



Hardware

CPU:	Intel Pentium D Processor 930 (3.0 GHz, 2x2MB L2, 800MHz bus)
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 2 cores/chip
CPU(s) orderable:	1
Parallel:	No
Primary Cache:	12K micro-ops I + 16KBD (on chip) per core
Secondary Cache:	2048KB(I+D) (on chip) per core
L3 Cache:	N/A
Other Cache:	N/A
Memory:	4x2048MB PC2-4200
Disk Subsystem:	1x80.0GB SATA
Other Hardware:	

Software

Operating System:	Windows Server 2003 Standard SP1
Compiler:	Intel C++ Compiler for 32-bit applications, (Version 9.0 Build 20060120Z) 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:    -fast -Qansi_alias +FDO
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:    -fast -Qscalar_rep- -Qauto     +FDO ONESTEP=yes
  177.mesa:     -fast                          +FDO ONESTEP=yes
  178.galgel:   -fast                          +FDO ONESTEP=yes
  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:     basepeak=1
```

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Notes/Tuning Information (Continued)

```
    189.lucas:     -fast
    191.fma3d:     basepeak=1
    200.sixtrack: -fast                              +FDO
    301.apsi:      basepeak=1
  Other Configuration Notes
    /NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.
```