



CFP2000 Result

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Hewlett-Packard Company

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

SPECfp_rate2000 = 34.3

SPECfp_rate_base2000 = 33.6

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	71.8	51.7	2	71.6	51.8
171.swim	2	216	33.4	2	215	33.4
172.mgrid	2	149	28.0	2	149	28.0
173.applu	2	175	27.8	2	175	27.8
177.mesa	2	107	30.4	2	107	30.4
178.galgel	2	97.6	68.9	2	97.8	68.8
179.art	2	80.3	75.1	2	80.3	75.1
183.quake	2	88.5	34.1	2	66.0	45.7
187.facerec	2	113	39.1	2	113	39.2
188.amp	2	201	25.4	2	201	25.4
189.lucas	2	144	32.3	2	148	31.4
191.fma3d	2	175	27.9	2	175	27.9
200.sixtrack	2	184	13.9	2	184	13.9
301.apsi	2	225	26.8	2	225	26.8

Hardware

CPU: Intel Pentium D Processor 930 (3.0 GHz, 2x2MB L2, 800MHz bus)
CPU MHz: 3000
FPU: Integrated
CPU(s) enabled: 2 cores, 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.quake: -fast -Oa -Qrcd

+FDO ONESTEP=yes shlw32M.lib

187.facerec: -fast -Qunroll1 -Qscalar_rep-

+FDO ONESTEP=yes

188.amp: 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