



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL320 G4 (3.0GHz Intel Pentium D Processor 930)

SPECint2000 = 1501
SPECint_base2000 = 1496

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	1000 2000 3000 4000			
164.gzip	1400	137	1022	138	1018	[Bar chart showing ratio]			
175.vpr	1400	139	1011	135	1036	[Bar chart showing ratio]			
176.gcc	1100	61.6	1786	61.6	1786	[Bar chart showing ratio]			
181.mcf	1800	93.5	1926	93.5	1926	[Bar chart showing ratio]			
186.crafty	1000	90.2	1109	90.4	1107	[Bar chart showing ratio]			
197.parser	1800	143	1257	143	1260	[Bar chart showing ratio]			
252.eon	1300	68.8	1890	69.1	1882	[Bar chart showing ratio]			
253.perlbmk	1800	101	1784	101	1791	[Bar chart showing ratio]			
254.gap	1100	67.1	1639	66.0	1667	[Bar chart showing ratio]			
255.vortex	1900	71.4	2662	71.4	2660	[Bar chart showing ratio]			
256.bzip2	1500	131	1141	131	1141	[Bar chart showing ratio]			
300.twolf	3000	199	1509	199	1509	[Bar chart showing ratio]			

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 for C programs: -fast +FDO ONESTEP=yes shlw32M.lib

Base tuning for C++ programs: -fast -Qcxx_features +FDO ONESTEP=yes

Portability flags:

176.gcc: -Dalloca=_alloca /F10000000

186.crafty: -DNT_i386

253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT

254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO

Peak tuning:

164.gzip: -fast +FDO ONESTEP=yes

175.vpr: -fast +FDO ONESTEP=yes

176.gcc: basepeak = 1

181.mcf: -fast +FDO ONESTEP=yes shlw32M.lib

186.crafty: -fast -Oa +FDO ONESTEP=yes shlw32M.lib

197.parser: -fast +FDO ONESTEP=yes

252.eon: -fast +FDO

253.perlbmk: -fast -Oa +FDO ONESTEP=yes shlw32M.lib

254.gap: -fast +FDO ONESTEP=yes

255.vortex: -fast +FDO ONESTEP=yes shlw32M.lib



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Notes/Tuning Information (Continued)

256.bzip2: -fast -Oa -Qunroll11 +FDO ONESTEP=yes shlw32M.lib
300.twolf: -fast +FDO shlw32M.lib
Other Configuration Notes
/NUMPROC=1 flag was added to boot.ini to invoke uniprocessor environment.