



CINT2000 Result

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

SPECint_rate2000 = 17.4
SPECint_rate_base2000 = 17.4

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 |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip | 1 | 137 | 11.9 | 1 | 138 | 11.8 |
| 175.vpr | 1 | 139 | 11.7 | 1 | 135 | 12.0 |
| 176.gcc | 1 | 61.6 | 20.7 | 1 | 61.6 | 20.7 |
| 181.mcf | 1 | 93.5 | 22.3 | 1 | 93.5 | 22.3 |
| 186.crafty | 1 | 90.2 | 12.9 | 1 | 90.4 | 12.8 |
| 197.parser | 1 | 143 | 14.6 | 1 | 143 | 14.6 |
| 252.eon | 1 | 68.8 | 21.9 | 1 | 69.1 | 21.8 |
| 253.perlbnk | 1 | 101 | 20.7 | 1 | 101 | 20.8 |
| 254.gap | 1 | 67.1 | 19.0 | 1 | 66.0 | 19.3 |
| 255.vortex | 1 | 71.4 | 30.9 | 1 | 71.4 | 30.9 |
| 256.bzip2 | 1 | 131 | 13.2 | 1 | 131 | 13.2 |
| 300.twolf | 1 | 199 | 17.5 | 1 | 199 | 17.5 |

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.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDDL /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.perlbnk: -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)

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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.
```