



CINT2000 Result

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Hewlett-Packard Company
ProLiant ML370 G4 (3.6GHz, Intel Xeon)

SPECint_rate2000 = 19.2
SPECint_rate_base2000 = 18.8

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Feb-2005 Hardware Avail: Feb-2005 Software Avail: Feb-2005

| Benchmark | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|-------------|-------------|--------------|------------|--------|---------|-------|
| 164.gzip | 1 | 117 | 13.9 | 1 | 118 | 13.8 |
| 175.vpr | 1 | 122 | 13.3 | 1 | 119 | 13.7 |
| 176.gcc | 1 | 56.4 | 22.6 | 1 | 56.4 | 22.6 |
| 181.mcf | 1 | 98.5 | 21.2 | 1 | 99.1 | 21.1 |
| 186.crafty | 1 | 74.9 | 15.5 | 1 | 75.5 | 15.4 |
| 197.parser | 1 | 125 | 16.7 | 1 | 125 | 16.7 |
| 252.eon | 1 | 74.0 | 20.4 | 1 | 61.6 | 24.5 |
| 253.perlbnk | 1 | 97.0 | 21.5 | 1 | 95.7 | 21.8 |
| 254.gap | 1 | 61.2 | 20.8 | 1 | 59.8 | 21.3 |
| 255.vortex | 1 | 66.9 | 32.9 | 1 | 67.0 | 32.9 |
| 256.bzip2 | 1 | 124 | 14.0 | 1 | 124 | 14.0 |
| 300.twolf | 1 | 169 | 20.6 | 1 | 169 | 20.5 |

Hardware

CPU: Intel Xeon (3.6GHz, 2MB L2, 800MHz bus)
 CPU MHz: 3600
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)
 CPU(s) orderable: 1,2
 Parallel: No
 Primary Cache: 12K micro-ops I + 16KBD on chip
 Secondary Cache: 2048KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 8x512MB DDR2-400
 Disk Subsystem: 1x18.2GB 15K Ultra320 SCSI
 Other Hardware:

Software

Operating System: Windows Server 2003 Standard (Build 3790)
 Compiler: Intel C++ Compiler 8.1 Build 20040802Z
 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 -GX -GR

Portability flags:

176.gcc: -Dalloca=_alloca /F10000000

186.crafty: -DNT_i386

253.perlbnk: -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.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)

256.bzip2: -fast -Oa -Qunroll11 +FDO ONESTEP=yes shlw32M.lib
300.twolf: -fast -O3 +FDO shlw32M.lib
BIOS Configuration Notes
Hyper-Threading Technology disabled