



CINT2000 Result

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Hewlett-Packard Company
ProLiant ML350 G4p (3.6GHz, Intel Xeon)

SPECint_rate2000 = 40.5
SPECint_rate_base2000 = 40.4

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	175	37.2	4	174	37.3
175.vpr	4	248	26.2	4	239	27.2
176.gcc	4	94.1	54.2	4	94.1	54.2
181.mcf	4	341	24.5	4	343	24.4
186.crafty	4	147	31.6	4	149	31.1
197.parser	4	209	40.0	4	208	40.1
252.eon	4	117	51.3	4	117	51.4
253.perlbnk	4	188	44.5	4	187	44.7
254.gap	4	117	43.7	4	119	43.0
255.vortex	4	133	66.4	4	133	66.5
256.bzip2	4	201	34.7	4	199	35.0
300.twolf	4	274	50.8	4	276	50.4

Hardware

CPU: Intel Xeon (3.6GHz, 2MB L2, 800MHz bus)
 CPU MHz: 3600
 FPU: Integrated
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip (Hyper-Threading Technology enabled)
 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: 4x2048MB PC2-3200
 Disk Subsystem: 1x80.0GB 7.2k Serial ATA
 Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise Edition SP1
 Compiler: Intel C++ Compiler for 32-bit applications, (Version 8.1 Build 20050524Z)
 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)

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