



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL580 G4 (3.4GHz, Intel Xeon processor 7140M)

SPECint_rate2000 = **84.4**
SPECint_rate_base2000 = **83.8**

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Aug-2006 | Hardware Avail: Aug-2006 | Software Avail: May-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	194	67.1	8	193	67.4
175.vpr	8	238	54.7	8	229	56.7
176.gcc	8	96.1	106	8	96.1	106
181.mcf	8	168	99.5	8	167	100
186.crafty	8	162	57.2	8	160	58.2
197.parser	8	207	80.9	8	205	81.6
252.eon	8	104	116	8	105	115
253.perlbnk	8	190	88.0	8	189	88.5
254.gap	8	138	73.8	8	137	74.4
255.vortex	8	134	132	8	134	132
256.bzip2	8	175	79.4	8	175	79.4
300.twolf	8	330	84.4	8	329	84.7

Hardware

CPU: Intel Xeon processor 7140M (800MHz system bus)
 CPU MHz: 3400
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip (Hyper-Threading Technology enabled)
 CPU(s) orderable: 1,2,4 chips
 Parallel: No
 Primary Cache: 12 K I micro-ops + 16 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: 16 MB on chip per chip
 Other Cache: N/A
 Memory: 32 GB (16x2048MB PC2-3200 dual-rank)
 Disk Subsystem: 1x36 GB 10 K SAS
 Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise SP1
 Compiler: Intel C++ Compiler for 32-bit applications, (Version 9.1 Build 20060323Z)
 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 -DPERL DLL /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: basepeak=1
300.twolf: -fast +FDO shlw32M.lib
BIOS Configuration Notes
Hyper-Threading Technology enabled