



CINT2000 Result

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

SPECint_rate2000 = **43.1**
SPECint_rate_base2000 = **42.7**

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	4	190	34.1	4	190	34.2
175.vpr	4	236	27.5	4	229	28.4
176.gcc	4	95.2	53.6	4	95.2	53.6
181.mcf	4	161	52.0	4	158	52.8
186.crafty	4	157	29.5	4	159	29.3
197.parser	4	206	40.6	4	204	40.8
252.eon	4	105	57.7	4	105	57.6
253.perlbnk	4	190	44.0	4	189	44.3
254.gap	4	125	40.9	4	117	43.8
255.vortex	4	133	66.2	4	133	66.3
256.bzip2	4	174	40.1	4	174	40.1
300.twolf	4	327	42.5	4	330	42.2

Hardware

CPU: Intel Xeon processor 7140M (800MHz system bus)
CPU MHz: 3400
FPU: Integrated
CPU(s) enabled: 2 cores, 1 chip, 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