



CINT2000 Result

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Hewlett-Packard Company
ProLiant ML570 G4 (3.4GHz, Intel Xeon processor 7140M)

SPECint2000 = **1751**
SPECint_base2000 = **1742**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	121	1153	122	1152	[Bar chart showing ratio 1152]			
175.vpr	1400	118	1191	115	1219	[Bar chart showing ratio 1219]			
176.gcc	1100	52.7	2088	52.7	2088	[Bar chart showing ratio 2088]			
181.mcf	1800	74.5	2416	74.4	2419	[Bar chart showing ratio 2419]			
186.crafty	1000	78.6	1273	78.5	1274	[Bar chart showing ratio 1274]			
197.parser	1800	122	1470	122	1474	[Bar chart showing ratio 1474]			
252.eon	1300	56.1	2316	56.1	2318	[Bar chart showing ratio 2318]			
253.perlbnk	1800	87.8	2051	86.2	2088	[Bar chart showing ratio 2088]			
254.gap	1100	63.3	1738	62.3	1764	[Bar chart showing ratio 1764]			
255.vortex	1900	60.2	3156	60.3	3154	[Bar chart showing ratio 3154]			
256.bzip2	1500	112	1341	112	1341	[Bar chart showing ratio 1341]			
300.twolf	3000	174	1723	174	1724	[Bar chart showing ratio 1724]			

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 disabled)
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 -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: basepeak=1
300.twolf: -fast +FDO shlw32M.lib
BIOS Configuration Notes
Hyper-Threading Technology disabled