



# CINT2000 Result

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

SPECint\_rate2000 = 43.2  
SPECint\_rate\_base2000 = 42.8

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	4	190	34.1	4	190	34.1
175.vpr	4	235	27.6	4	227	28.6
176.gcc	4	94.9	53.8	4	94.9	53.8
181.mcf	4	160	52.3	4	159	52.6
186.crafty	4	157	29.5	4	157	29.6
197.parser	4	206	40.6	4	204	40.9
252.eon	4	104	57.9	4	105	57.7
253.perlbnk	4	190	44.0	4	188	44.5
254.gap	4	124	41.3	4	116	43.9
255.vortex	4	133	66.4	4	133	66.4
256.bzip2	4	174	40.0	4	174	40.0
300.twolf	4	326	42.7	4	325	42.9

### 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