



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

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

SPECint\_rate2000 = **84.7**  
SPECint\_rate\_base2000 = **84.2**

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	67.3
175.vpr	8	237	54.8	8	228	57.0
176.gcc	8	95.9	106	8	95.9	106
181.mcf	8	166	101	8	167	100
186.crafty	8	159	58.5	8	157	59.2
197.parser	8	206	81.1	8	204	81.7
252.eon	8	105	115	8	105	115
253.perlbnk	8	189	88.2	8	188	88.7
254.gap	8	138	73.8	8	136	75.1
255.vortex	8	133	132	8	133	132
256.bzip2	8	175	79.5	8	175	79.5
300.twolf	8	324	85.8	8	327	85.1

### 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



# CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

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

SPECint\_rate2000 = 84.7  
SPECint\_rate\_base2000 = 84.2

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

## Notes/Tuning Information (Continued)

256.bzip2: basepeak=1  
300.twolf: -fast +FDO shlw32M.lib  
BIOS Configuration Notes  
HyperThreading Technology enabled