



# CINT2000 Result

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**Hewlett-Packard Company**  
ProLiant ML350 G4p (3.6GHz, Intel Xeon)

SPECint2000 = 1718  
SPECint\_base2000 = 1712

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Aug-2005 Hardware Avail: Sep-2005 Software Avail: May-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
164.gzip	1400	116	1204	117	1197	[Bar chart showing ratio bars for 164.gzip]			
175.vpr	1400	120	1169	118	1191	[Bar chart showing ratio bars for 175.vpr]			
176.gcc	1100	54.6	2015	54.6	2015	[Bar chart showing ratio bars for 176.gcc]			
181.mcf	1800	91.5	1967	91.5	1966	[Bar chart showing ratio bars for 181.mcf]			
186.crafty	1000	75.2	1330	75.2	1330	[Bar chart showing ratio bars for 186.crafty]			
197.parser	1800	123	1458	123	1462	[Bar chart showing ratio bars for 197.parser]			
252.eon	1300	58.8	2210	58.4	2227	[Bar chart showing ratio bars for 252.eon]			
253.perlbmk	1800	86.5	2081	85.2	2113	[Bar chart showing ratio bars for 253.perlbmk]			
254.gap	1100	58.2	1891	57.9	1900	[Bar chart showing ratio bars for 254.gap]			
255.vortex	1900	64.4	2951	64.8	2934	[Bar chart showing ratio bars for 255.vortex]			
256.bzip2	1500	118	1276	117	1282	[Bar chart showing ratio bars for 256.bzip2]			
300.twolf	3000	168	1788	168	1789	[Bar chart showing ratio bars for 300.twolf]			

### Hardware

CPU: Intel Xeon (3.6GHz, 2MB L2, 800MHz bus)  
CPU MHz: 3600  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 12K micro-ops I + 16KBD on chip  
Secondary Cache: 2048KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x2048MB PC2-3200  
Disk Subsystem: 1x80.0GB 7.2k Serial ATA  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise Edition SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (Version 8.1 Build 20050524Z)  
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.perlbmk: -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.perlbmk: -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: -fast -Oa -Qunroll11 +FDO ONESTEP=yes shlw32M.lib  
300.twolf: -fast +FDO shlw32M.lib  
BIOS Configuration Notes  
Hyper-Threading Technology disabled