



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant DL580 G3 (3.66GHz, Intel Xeon)

SPECint\_rate2000 = 16.2  
SPECint\_rate\_base2000 = 16.1

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	116	14.0	1	116	14.0
175.vpr	1	184	8.81	1	177	9.19
176.gcc	1	64.6	19.7	1	64.6	19.7
181.mcf	1	206	10.1	1	206	10.1
186.crafty	1	75.2	15.4	1	75.1	15.4
197.parser	1	146	14.3	1	145	14.4
252.eon	1	57.4	26.3	1	57.0	26.5
253.perlbnk	1	93.1	22.4	1	91.1	22.9
254.gap	1	66.1	19.3	1	65.8	19.4
255.vortex	1	86.6	25.4	1	86.7	25.4
256.bzip2	1	179	9.70	1	179	9.73
300.twolf	1	175	19.9	1	176	19.8

### Hardware

CPU: Intel Xeon MP (3.66GHz, 1MB L2, 667MHz bus)  
CPU MHz: 3666  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2,4  
Parallel: No  
Primary Cache: 12K micro-ops I + 16KBD on chip  
Secondary Cache: 1024KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 16x2048MB DDR2-400  
Disk Subsystem: 1x36.4GB 15K Ultra320 SCSI  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise (Build 3790)  
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

Portability flags:

176.gcc: -Dalloca=\_alloca /F10000000

186.crafty: -DNT\_i386

253.perlbnk: -DSPEC\_CPU2000\_NTOS -DPERLDDL /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: -fast -Oa -Qunroll11 +FDO ONESTEP=yes shlw32M.lib  
300.twolf: -fast +FDO shlw32M.lib  
BIOS Configuration Notes  
Hyper-Threading Technology disabled