



# CINT2000 Result

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**Hewlett-Packard Company**  
ProLiant DL140 G3 (3.0 GHz, Intel Xeon processor 5160)

SPECint\_rate2000 = **62.5**  
SPECint\_rate\_base2000 = **62.3**

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Nov-2006 Hardware Avail: Jun-2006 Software Avail: Oct-2006

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	77.1	42.1	2	76.6	42.4
175.vpr	2	77.9	41.7	2	75.2	43.2
176.gcc	2	38.7	65.9	2	38.7	65.9
181.mcf	2	72.4	57.7	2	72.8	57.4
186.crafty	2	36.5	63.5	2	36.6	63.4
197.parser	2	83.2	50.2	2	82.8	50.5
252.eon	2	32.9	91.6	2	33.0	91.4
253.perlbnk	2	51.8	80.6	2	52.0	80.3
254.gap	2	41.6	61.3	2	41.3	61.8
255.vortex	2	45.4	97.2	2	45.4	97.2
256.bzip2	2	76.7	45.4	2	76.7	45.4
300.twolf	2	86.5	80.4	2	86.5	80.5

### Hardware

CPU: Intel Xeon processor 5160 (1333 MHz system bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
CPU(s) orderable: 1,2 chips  
Parallel: No  
Primary Cache: 32 KB I + 32 KB D on chip per core  
Secondary Cache: 4 MB I+D on chip per chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8 GB (8 x 1 GB PC2-5300F)  
Disk Subsystem: 2 x 36 GB 15 K SAS  
Other Hardware:

### Software

Operating System: Windows Server 2003 Enterprise SP1  
Compiler: Intel C++ Compiler for 32-bit applications, (version 9.1 Build 20060816Z) Microsoft Visual Studio .NET 7.0.9466 (for libraries) MicroQuill Smartheap Library 8.0  
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 -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
256.bzip2: basepeak=1
```



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## Notes/Tuning Information (Continued)

300.twolf: -fast +FDO shlw32M.lib  
BIOS Configuration Notes  
Adjacent Cache Line Prefetch Disabled