



# CINT2000 Result

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Hewlett-Packard Company  
ProLiant BL20p G2 (3.06GHz, Intel Xeon)

SPECint\_rate2000 = 12.5  
SPECint\_rate\_base2000 = 12.2

SPEC license #: 3 Test by: Hewlett-Packard Company, Houston TX Test date: Aug-2003 Hardware Avail: Apr-2003 Software Avail: Jun-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	1	122	13.3	1	116	14.1
175.vpr	1	240	6.78	1	228	7.13
176.gcc	1	79.8	16.0	1	87.7	14.6
181.mcf	1	276	7.56	1	264	7.92
186.crafty	1	90.3	12.9	1	89.6	12.9
197.parser	1	181	11.6	1	175	11.9
252.eon	1	97.8	15.4	1	80.7	18.7
253.perlbnk	1	129	16.1	1	125	16.7
254.gap	1	76.8	16.6	1	72.8	17.5
255.vortex	1	126	17.4	1	136	16.2
256.bzip2	1	191	9.12	1	184	9.45
300.twolf	1	355	9.81	1	363	9.59

### Hardware

CPU: Intel Xeon (3.06GHz, 533MHz bus)  
 CPU MHz: 3066  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading disabled)  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 12K micro-ops I + 8KBD on chip  
 Secondary Cache: 512KB(I+D) on chip  
 L3 Cache: None  
 Other Cache: N/A  
 Memory: 2x1024MB PC2100  
 Disk Subsystem: 2x18.2GB 15K Ultra3 SCSI  
 Other Hardware:

### Software

Operating System: Windows 2000 Server (Build 2195 SP3)  
 Compiler: Intel C++ Compiler 7.1 Build 20030801Z  
 Microsoft Visual Studio Enterprise Edition 6.0 (for libraries)  
 MicroQuill Smartheap Library 7.0  
 File System: NTFS  
 System State: Hyperthreading disabled in BIOS

## Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for C programs: -QxW -Qipo +FDO shlw32m.lib ONESTEP=yes
Base tuning for C++ programs: -Qipo -GX -GR +FDO ONESTEP=yes
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: -QxW -Qipo -O3 +FDO ONESTEP=yes
175.vpr: -QxW -Qipo -O3 +FDO ONESTEP=yes
176.gcc: -QxW -Qipo -O3 -Oi- +FDO shlw32M.lib ONESTEP=yes
181.mcf: -Oa -Qipo +FDO shlw32M.lib ONESTEP=yes
186.crafty: -QxW -Qipo -O3 +FDO ONESTEP=yes
197.parser: -QxW -Qipo -Oa -O3 +FDO ONESTEP=yes
252.eon: -QxW -Qipo -O3 +FDO ONESTEP=yes
253.perlbnk: -Qipo -O3 -Oa +FDO shlw32M.lib ONESTEP=yes
254.gap: -QxW -Qipo -O3 +FDO ONESTEP=yes
255.vortex: -QxW -Qipo -O3 +FDO ONESTEP=yes
256.bzip2: -Qunroll1 -Qipo -Oa +FDO ONESTEP=yes
```



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## Notes/Tuning Information (Continued)

300.twolf: -Qxi -Qipo +FDO shlw32M.lib ONESTEP=yes