



CINT2000 Result

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Hewlett-Packard Company
ProLiant DL380 G4 (3.4GHz, Intel Xeon)

SPECint2000 = 1477
SPECint_base2000 = 1433

SPEC license #: 3 Tested by: Hewlett-Packard Company Test date: Jul-2004 Hardware Avail: Aug-2004 Software Avail: Aug-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	125	1117	125	1119	
175.vpr	1400	153	916	146	962	
176.gcc	1100	62.5	1761	62.5	1761	
181.mcf	1800	164	1096	157	1150	
186.crafty	1000	79.3	1262	79.3	1262	
197.parser	1800	140	1285	139	1296	
252.eon	1300	78.0	1667	65.3	1992	
253.perlbnk	1800	102	1764	100	1799	
254.gap	1100	62.7	1755	61.7	1783	
255.vortex	1900	73.2	2594	73.0	2603	
256.bzip2	1500	143	1048	139	1080	
300.twolf	3000	179	1672	178	1683	

Hardware

CPU: Intel Xeon (3.4GHz, 1MB L2, 800MHz bus)
CPU MHz: 3400
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip (HT Technology disabled)
CPU(s) orderable: 1,2
Parallel: No
Primary Cache: 16K micro-ops I + 16KBD on chip
Secondary Cache: 1024KB(I+D) on chip
L3 Cache: N/A
Other Cache: N/A
Memory: 4x512MB DDR2-400
Disk Subsystem: 1x18.2GB 15K Ultra320 SCSI
Other Hardware:

Software

Operating System: Windows Server 2003 Standard (Build 3790)
Compiler: Intel C++ Compiler 8.0 Build 20031211Z
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
+FDO*: FDO (-QxP not used in PASS1 to enable cross-compilation)
Base tuning for C programs: -QxP -fast +FDO* shlw32M.lib
Base tuning for C++ programs: -QxP -fast -GX -GR
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: -QxP -fast -Oa +FDO ONESTEP=yes
175.vpr: -QxP -fast +FDO ONESTEP=yes
176.gcc: basepeak = 1
181.mcf: -QxP -fast +FDO ONESTEP=yes shlw32M.lib
186.crafty: -QxP -fast -Oa +FDO ONESTEP=yes shlw32M.lib
197.parser: -QxP -fast +FDO ONESTEP=yes
252.eon: -QxP -O2 -Qipo +FDO*
253.perlbnk: -fast -Oa +FDO ONESTEP=yes shlw32M.lib
254.gap: -QxP -fast +FDO ONESTEP=yes
255.vortex: -QxP -fast +FDO ONESTEP=yes shlw32M.lib
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Notes/Tuning Information (Continued)

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256.bzip2:      -fast -Oa -Qunroll11 +FDO  ONESTEP=yes
300.twolf:     -QxP -fast -O3           +FDO*           shlw32M.lib
BIOS Configuration Notes
HT Technology disabled
```