



CINT2000 Result

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Hewlett-Packard Company
ProLiant ML370 G4 (3.6GHz, Intel Xeon)

SPECint2000 = **1556**
SPECint_base2000 = **1521**

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	118	1187	119	1181	
175.vpr	1400	142	985	137	1020	
176.gcc	1100	58.9	1869	58.9	1869	
181.mcf	1800	150	1202	150	1202	
186.crafty	1000	74.9	1335	74.9	1334	
197.parser	1800	133	1358	133	1358	
252.eon	1300	73.6	1767	61.6	2111	
253.perlbmk	1800	97.1	1853	94.4	1908	
254.gap	1100	59.6	1846	58.7	1873	
255.vortex	1900	69.9	2719	69.8	2723	
256.bzip2	1500	135	1109	132	1137	
300.twolf	3000	170	1769	170	1761	

Hardware

CPU: Intel Xeon (3.6GHz, 1MB L2, 800MHz bus)
CPU MHz: 3600
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: 8x512MB 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.perlbmk: -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.perlbmk: -fast -Oa +FDO ONESTEP=yes shlw32M.lib

254.gap: -QxP -fast +FDO ONESTEP=yes



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Notes/Tuning Information (Continued)

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255.vortex:      -QxP -fast          +FDO  ONESTEP=yes  shlw32M.lib
256.bzip2:       -fast -Oa -Qunroll1 +FDO  ONESTEP=yes  shlw32M.lib
300.twolf:       -QxP -fast -O3      +FDO*                shlw32M.lib
BIOS Configuration Notes
HT Technology disabled
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