CINT2000 Result

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Hewlett-Packard Company

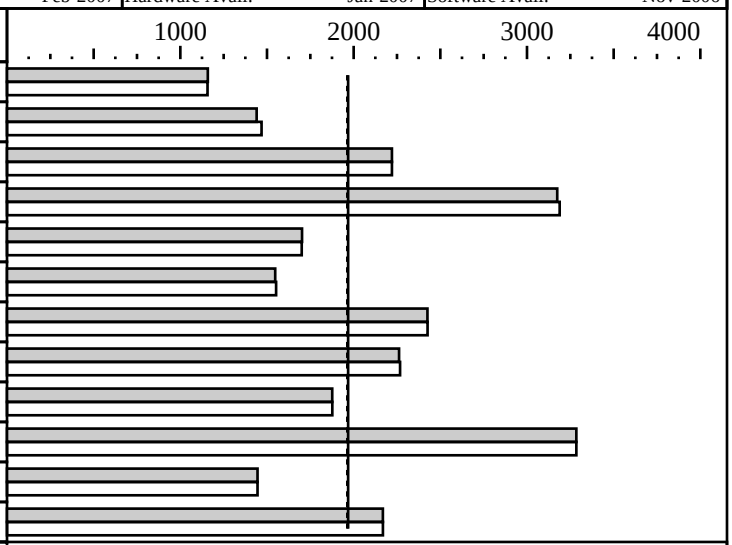
ProLiant BL20p G4 (1.86 GHz, Intel Xeon processor E5320)

SPECint2000 = 1968

SPECint_base2000 = 1963

SPEC license #: 3 | Tested by: Hewlett-Packard Company | Test date: Feb-2007 | Hardware Avail: Jan-2007 | Software Avail: Nov-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	121	1159	121	1157
175.vpr	1400	97.2	1440	95.3	1469
176.gcc	1100	49.5	2221	49.5	2221
181.mcf	1800	56.7	3174	56.5	3188
186.crafty	1000	58.8	1702	58.8	1700
197.parser	1800	116	1547	116	1553
252.eon	1300	53.6	2426	53.6	2426
253.perlbmk	1800	79.6	2262	79.4	2268
254.gap	1100	58.6	1876	58.6	1877
255.vortex	1900	57.8	3285	57.8	3285
256.bzip2	1500	104	1445	104	1445
300.twolf	3000	138	2169	138	2169



Hardware

CPU:	Intel Xeon processor E5320 (1.86 GHz, 2x4 MB L2 shared, 1066 MHz bus)
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1,2 chips
Parallel:	No
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip (4 MB shared per 2 cores)
L3 Cache:	N/A
Other Cache:	N/A
Memory:	16 GB (8x2 GB PC2-5300F CL5)
Disk Subsystem:	2x72 GB 10 K SAS
Other Hardware:	

Software

Operating System:	Windows Server 2003 Enterprise x64 Edition, SP1
Compiler:	Intel C++ Compiler for 32-bit applications, (Version 9.1 Build 20061103Z) Microsoft Visual Studio .NET 2003 (v7.1.3088, 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  ONESTEP=yes
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:     -fast               +FDO  ONESTEP=yes
  175.vpr:      -fast               +FDO  ONESTEP=yes
  176.gcc:      basepeak=1
  181.mcf:      -fast               +FDO
  186.crafty:   -fast -Oa           +FDO  ONESTEP=yes shlw32M.lib
  197.parser:   -fast               +FDO  ONESTEP=yes
  252.eon:      -fast               +FDO
  253.perlbmk:  -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:    basepeak=1
    300.twolf:    -fast               +FDO              shlw32M.lib
  BIOS Configuration Notes
    Power Regulator set to Static High
    Adjacent Sector Prefetch disabled
  Other Configuration Notes
    The start /b /wait /affinity command is used to bind CPU(s) to processes.
```