



CINT2000 Result

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IBM
4812-001 (2.0 GHz Pentium M)

SPECint2000 = **1441**
SPECint_base2000 = **1429**

SPEC license #: 11 | Tested by: IBM, Rochester, MN | Test date: Aug-2004 | Hardware Avail: Oct-2004 | Software Avail: Oct-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	124	1130	124	1130	
175.vpr	1400	110	1272	110	1272	
176.gcc	1100	65.2	1686	65.3	1685	
181.mcf	1800	190	947	190	947	
186.crafty	1000	72.2	1385	72.2	1385	
197.parser	1800	138	1303	138	1302	
252.eon	1300	75.7	1717	70.6	1842	
253.perlbmk	1800	122	1475	122	1478	
254.gap	1100	81.7	1347	81.7	1347	
255.vortex	1900	82.3	2307	82.3	2307	
256.bzip2	1500	138	1088	134	1124	
300.twolf	3000	147	2041	147	2041	

Hardware

CPU: Intel Pentium M
 400/200 Mhz System/Memory buses
 CPU MHz: 2000
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1
 Parallel: No
 Primary Cache: 32K(I) micro-ops + 32KB(D) on chip
 Secondary Cache: 2MB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 1 x 1024MB DDR200 Registered ECC
 Disk Subsystem: 1 iSeries 2757-001 Disk IOA,
 16 x 35.18GB 3516 15k RPM, unprotected.
 Other Hardware: 4812 attached within
 iSeries 9406-810, cpu 25F0-000

Software

Operating System: Windows Server 2003 Standard Edition Build 3790
 Compiler: Intel C++ Compiler 8.0 (20031017Z)
 Microsoft Visual Studio .NET (7.0.9466)
 File System: NTFS
 System State: Default

Notes/Tuning Information

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

FEEDBACK DIRECTED OPTIMIZATION

ONESTEP=yes

BASE TUNING

C: -QxW -Qipo -O3 +FDO
 C++: -QxW -Qipo -GX -GR

PEAK TUNING

164.gzip: -QxW -Qipo -Oa -O3 +FDO
 175.vpr: -QxW -Qipo -O3 +FDO
 176.gcc: -QxW -Qipo -O3 +FDO
 181.mcf: -QxW -Qipo -O3 +FDO
 186.crafty: -QxW -Qipo -O3 +FDO
 197.parser: -QxW -Qipo -O3 +FDO



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Notes/Tuning Information (Continued)

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252.eon:      -QxW -Qipo      -O3 +FDO
253.perlbnk:  -QxW -Qipo      -O3 +FDO
254.gap:      basepeak=yes
255.vortex    basepeak=yes
256.bzip2:    -Qipo -Oa -Qunroll1 +FDO
300.twolf:    basepeak=yes
```

EXTRA LIBRARIES

This system is a fully contained Intel based processor board. It supports all non-PCI devices directly on the board e.g memory, keyboard, mouse, display. It attaches to the system as another PCI device. The Windows OS is provided PCI device drivers to allow the system to use the PCI devices attached to the host iSeries system. The host OS then supports the use by Windows of the devices such as disks.

More information about the xSeries board in iSeries systems can be found at <http://www.ibm.com/servers/eserver/iseries/library> In particular, there is a Redbook available titled: "Microsoft Windows Server 2003 Integration with iSeries" that provides lots more detailed information.