



CINT2000 Result

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Bull
NovaScale 3045 (1.6 GHz, Itanium2 9050)

SPECint2000 = 1335
SPECint_base2000 = 1335

SPEC license #: 20 | Tested by: Bull | Test date: Oct-2006 | Hardware Avail: Oct-2006 | Software Avail: Oct-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	135	1036	135	1036	
175.vpr	1400	129	1086	129	1086	
176.gcc	1100	66.9	1644	66.9	1644	
181.mcf	1800	65.6	2743	65.6	2743	
186.crafty	1000	77.5	1291	77.5	1291	
197.parser	1800	304	592	304	592	
252.eon	1300	61.0	2131	61.0	2131	
253.perlbmk	1800	138	1301	138	1301	
254.gap	1100	127	868	127	868	
255.vortex	1900	88.6	2145	88.6	2145	
256.bzip2	1500	130	1152	130	1152	
300.twolf	3000	215	1392	215	1392	

Hardware

CPU: Itanium 2 Processor 9050 1600 MHz FSB 533MHz
CPU MHz: 1600
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 2 cores/chip (Hyper-Threading Technology disabled)
CPU(s) orderable: 1, 2, 3 or 4 (chips)
Parallel: No
Primary Cache: 16KB(I) + 16KB(D) on chip per core
Secondary Cache: 256KBI + 1MBD on chip per core
L3 Cache: 12MB (I+D) on chip per core
Other Cache: N/A
Memory: 128 GB (32 x 4GB ECC DIMMs DDR2-533 PC4200 533MHz CL4)
Disk Subsystem: 2x10krpm 73GB SAS disks
Other Hardware:

Software

Operating System: Windows Server 2003 Enterprise Edition (64 bits), Service Pack 1
Compiler: Intel(R) C++ Itanium(R) Compiler for Itanium(R)-based app., Version 9.1, - Build 20060928 Package ID: W_CC_C_9.1.032 Microsoft Platform SDK February 2003
File System: NTFS
System State: Default

Notes/Tuning Information

Portability flags:

```
175.vpr: -DSPEC_CPU2000_P64
176.gcc: -Dalloca=_alloca /F60000000
181.mcf: -DSPEC_CPU2000_P64
186.crafty: -DNT_i386
252.eon: -DSPEC_CPU2000_P64
253.perlbmk: -DSPEC_CPU2000_NTOS -DPERLDLL -DSPEC_CPU2000_P64
           -DHAS_LONG_LONG -DUSE_LONG_LONG
254.gap: -DSPEC_CPU2000 -DSPEC_CPU2000_P64
255.vortex: -DSPEC_CPU2000_P64
```

Feedback optimization:

```
+FDO: PASS1= -Qprof_gen PASS2= -Qprof_use
```

Baseline Tuning Flags:

```
for C programs:
/fast /Qauto-ilp32 +FDO
for C++ program 252.eon:
/fast /Qcxx_features +FDO
```



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Bull	SPECint2000 =	1335
NovaScale 3045 (1.6 GHz, Itanium2 9050)	SPECint_base2000 =	1335

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Notes/Tuning Information (Continued)

Peak Tuning Flags: basepeak=true

Other Configuration Notes

/NUMPROC=1 flag was added to the boot entry to invoke uniprocessor environment

For information about Bull please see:
<http://www.bull.com>