



# CINT2000 Result

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**Bull**  
NovaScale 3045 (1.6 GHz, Itanium2 9050)

SPECint\_rate2000 = 122  
SPECint\_rate\_base2000 = 122

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	137	94.6	8	137	94.6
175.vpr	8	132	98.5	8	132	98.5
176.gcc	8	69.4	147	8	69.4	147
181.mcf	8	68.7	243	8	68.7	243
186.crafty	8	77.4	120	8	77.4	120
197.parser	8	305	54.7	8	305	54.7
252.eon	8	61.0	198	8	61.0	198
253.perlbnk	8	138	121	8	138	121
254.gap	8	135	75.8	8	135	75.8
255.vortex	8	90.0	196	8	90.0	196
256.bzip2	8	132	106	8	132	106
300.twolf	8	215	129	8	215	129

### Hardware

CPU: Itanium 2 Processor 9050 1600 MHz FSB 533MHz  
CPU MHz: 1600  
FPU: Integrated  
CPU(s) enabled: 8 cores, 4 chips, 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.perlbnk: -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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## Notes/Tuning Information (Continued)

Peak Tuning Flags: basepeak=true

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