



# CINT2000 Result

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## SGI

### SGI Altix 3700 Bx2 (1500MHz, Itanium 2)

SPECint2000 = --

SPECint\_base2000 = 1242

SPEC license #: 4 | Tested by: SGI | Test date: Dec-2004 | Hardware Avail: Oct-2004 | Software Avail: Nov-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	500 1000 1500 2000			
164.gzip	1400	143	981			[Bar chart showing ratio]			
175.vpr	1400	141	994			[Bar chart showing ratio]			
176.gcc	1100	81.2	1354			[Bar chart showing ratio]			
181.mcf	1800	118	1530			[Bar chart showing ratio]			
186.crafty	1000	83.4	1199			[Bar chart showing ratio]			
197.parser	1800	196	919			[Bar chart showing ratio]			
252.eon	1300	70.1	1854			[Bar chart showing ratio]			
253.perlbnk	1800	148	1219			[Bar chart showing ratio]			
254.gap	1100	123	893			[Bar chart showing ratio]			
255.vortex	1900	100	1896			[Bar chart showing ratio]			
256.bzip2	1500	134	1118			[Bar chart showing ratio]			
300.twolf	3000	212	1412			[Bar chart showing ratio]			

#### Hardware

CPU: Intel Itanium 2  
CPU MHz: 1500  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 16-256  
Parallel: No  
Primary Cache: 16KBI + 16KBD on chip, per core  
Secondary Cache: 256KB (I+D) on chip, per core  
L3 Cache: 4.0MB (I+D) on chip, per core  
Other Cache: N/A  
Memory: 2 GB (2\*1GB PC2700 DIMMS)  
Disk Subsystem: 1 x 73 GB SCSI (Seagate Cheetah 10k rpm)  
Other Hardware: None

#### Software

Operating System: SGI ProPack(TM) v3.0 Service Pack 2  
Compiler: Intel(R) C++ Compiler for Linux 8.1 (Build 20041021)  
MicroQuill SmartHeap Library 7.01 (www.microquill.com)  
File System: xfs  
System State: Multi-user

### Notes/Tuning Information

+FDO: PASS1=-prof\_gen PASS2=-prof\_use

#### Baseline optimization flags:

C programs: -fast -auto\_ilp32 +FDO  
C++ programs: -fast -ansi\_alias +FDO  
Extra Libraries: libsmartheap64.a

#### Portability Flags:

176.gcc: -DSPEC\_CPU2000\_LP64 -Dalloca=\_builtin\_alloca  
186.crafty: -DLINUX\_i386  
252.eon: -DSPEC\_CPU2000\_LP64 -DHAS\_ERRLIST -DFMAX\_IS\_DOUBLE  
253.perlbnk: -DSPEC\_CPU2000\_LP64 -DSPEC\_CPU2000\_NEED\_BOOL  
-DSPEC\_CPU2000\_LINUX\_IA64 -DSPEC\_CPU2000\_GLIBC22  
254.gap: -DSPEC\_CPU2000\_LP64 -DSYS\_HAS\_CALLOC\_PROTO -DSYS\_IS\_USG  
-DSYS\_HAS\_IOCTL\_PROTO -DSYS\_HAS\_TIME\_PROTO -DSYS\_HAS\_SIGNAL\_PROTO  
255.vortex: -DSPEC\_CPU2000\_LP64 srcalt=closed\_files

Processes were bound to CPUs using dplace.  
Extra CPUs disabled at firmware.