



# CINT2000 Result

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**SGI**  
SGI Altix 3000 (1000MHz, Itanium 2)

SPECint\_rate2000 = 62.1  
SPECint\_rate\_base2000 = 62.1

SPEC license #: 4 | Tested by: SGI | Test date: Apr-2003 | Hardware Avail: Feb-2003 | Software Avail: Apr-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	231	56.4	8	231	56.4
175.vpr	8	217	59.9	8	217	59.9
176.gcc	8	134	76.2	8	134	76.2
181.mcf	8	355	47.1	8	355	47.1
186.crafty	8	144	64.4	8	144	64.4
197.parser	8	374	44.6	8	374	44.6
252.eon	8	156	77.2	8	156	77.2
253.perlbnk	8	266	62.8	8	266	62.8
254.gap	8	207	49.3	8	207	49.3
255.vortex	8	196	90.1	8	196	90.1
256.bzip2	8	230	60.6	8	230	60.6
300.twolf	8	389	71.6	8	389	71.6

### Hardware

CPU: Intel Itanium 2  
CPU MHz: 1000  
FPU: Integrated  
CPU(s) enabled: 8 cores, 8 chips, 1 core/chip  
CPU(s) orderable: 4-64  
Parallel: No  
Primary Cache: 16KBI + 16KBD (on chip) per CPU  
Secondary Cache: 256KB (on chip) per CPU  
L3 Cache: 3.0MB (on chip) per CPU  
Other Cache: N/A  
Memory: 16 GB (16\*512MB DIMMS per 4cpu module)  
Disk Subsystem: 1 x 36 GB SCSI (Seagate Cheetah 15k rpm)  
Other Hardware: None

### Software

Operating System: SGI ProPack(TM) v2.1  
Compiler: Intel(R) C++ Compiler for Linux 7.1 (Build 20030327)  
File System: xfs  
System State: Single-user

## Notes/Tuning Information

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

### Baseline optimization flags:

C programs: -ipo -O3 +FDO  
C++ programs: -ipo -O2 -ansi\_alias +FDO

### Portability Flags:

176.gcc: -DSPEC\_CPU2000\_LP64 -Dalloca=\_builtin\_alloca -D\_LIBC  
186.crafty: -DLINUX\_i386  
252.eon: -DSPEC\_CPU2000\_LP64 -DHAS\_ERRLIST  
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

Processes were bound to CPUs using dplace.

Peak flags same as baseline (basepeak=true set globally).