



# CINT2000 Result

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**SGI**  
**SGI Altix 3000 (900MHz, Itanium 2)**

**SPECint\_rate2000 = 25.3**  
**SPECint\_rate\_base2000 = 25.3**

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	255	25.5	4	255	25.5
175.vpr	4	303	21.4	4	303	21.4
176.gcc	4	160	31.9	4	160	31.9
181.mcf	4	490	17.0	4	490	17.0
186.crafty	4	162	28.7	4	162	28.7
197.parser	4	463	18.1	4	463	18.1
252.eon	4	174	34.8	4	174	34.8
253.perlbnk	4	312	26.8	4	312	26.8
254.gap	4	226	22.5	4	226	22.5
255.vortex	4	242	36.5	4	242	36.5
256.bzip2	4	302	23.1	4	302	23.1
300.twolf	4	562	24.7	4	562	24.7

### Hardware

CPU: Intel Itanium 2  
CPU MHz: 900  
FPU: Integrated  
CPU(s) enabled: 4 cores, 4 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: 1.5MB (on chip) per CPU  
Other Cache: N/A  
Memory: 8 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 20030307)  
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 +FDO -ansi\_alias

### 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).