



# CINT2000 Result

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Acer Incorporated  
Altos R510 (3.0 GHz Intel Xeon)

SPECint\_rate2000 = 32.2

SPECint\_rate\_base2000 = 32.2

SPEC license #: 97 | Tested by: Acer Incorporated | Test date: May-2005 | Hardware Avail: May-2005 | Software Avail: Oct-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	141	23.0	2	141	23.0
175.vpr	2	145	22.4	2	143	22.7
176.gcc	2	66.2	38.5	2	66.2	38.5
181.mcf	2	131	32.0	2	131	32.0
186.crafty	2	89.6	25.9	2	89.6	25.9
197.parser	2	148	28.3	2	148	28.3
252.eon	2	69.3	43.5	2	69.0	43.7
253.perlbnk	2	104	40.1	2	104	40.1
254.gap	2	75.9	33.6	2	75.9	33.6
255.vortex	2	81.5	54.1	2	81.5	54.1
256.bzip2	2	144	24.1	2	144	24.2
300.twolf	2	200	34.7	2	200	34.7

### Hardware

CPU: Intel Xeon (3.0 GHz, 2MB L2, 800MHz system bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip(Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 12KB(I) micro-ops + 16KB(D) on chip  
Secondary Cache: 2048KB(I+D) on chip  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 6 x 512MB ECC DDR-333 SDRAM  
Disk Subsystem: 1 x 80GB 7200RPM SATA HDD  
Other Hardware:

### Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition (Build 3790)  
Compiler: Intel C++ Compiler 8.1 Build 20041019Z  
Microsoft Visual Studio .Net 2003(7.1.3091, for libraries)  
SmartHeap Library Version 7.4 from <http://www.microquill.com/>  
File System: NTFS  
System State: Default

## Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen PASS2=-Qprof_use
Base tuning for C programs: -fast +FDO shlW32M.lib
Base tuning for C++ programs: -fast -Qcxx_features +FDO
Portability flags:
176.gcc: -Dalloca=_alloca /F10000000
186.crafty: -DNT_i386
252.eon: Approved stdcpp src.alt used
253.perlbnk: -DSPEC_CPU2000_NTOS -DPERLDLL /MT
254.gap: -DSYS_HAS_CALLOC_PROTO -DSYS_HAS_MALLOC_PROTO
Peak tuning:
164.gzip: basepeak=yes
175.vpr: -fast -Qansi_alias +FDO
176.gcc: basepeak=yes
181.mcf: basepeak=yes
186.crafty: basepeak=yes
197.parser: -fast -Qansi_alias +FDO
252.eon: -fast +FDO
253.perlbnk: -fast -Qansi_alias +FDO shlW32M.lib
254.gap: basepeak=yes
255.vortex: basepeak=yes
```



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## Notes/Tuning Information (Continued)

256.bzip2: -fast -Oa -Qunroll11 +FDO  
300.twolf: -fast -O3 +FDO shlw32M.lib  
Enable hardware prefetching and adjacent cache line prefetch BIOS setting  
Product description located at <http://www.acer.com>