



# CINT2000 Result

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## Acer Incorporated

Acer Altos R910 (3.0 GHz Intel Xeon Processor 7041)

SPECint\_rate2000 = 111

SPECint\_rate\_base2000 = 111

SPEC license #: 97 Tested by: Acer Incorporated Test date: May-2006 Hardware Avail: Jun-2006 Software Avail: Nov-2005

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	8	147	88.4	8	147	88.4
175.vpr	8	181	71.9	8	178	73.0
176.gcc	8	71.4	143	8	71.4	143
181.mcf	8	283	58.9	8	283	58.9
186.crafty	8	89.6	104	8	89.6	104
197.parser	8	155	108	8	154	108
252.eon	8	69.0	175	8	68.5	176
253.perlbnk	8	106	158	8	106	158
254.gap	8	111	92.3	8	111	92.3
255.vortex	8	91.0	194	8	91.0	194
256.bzip2	8	164	84.7	8	165	84.5
300.twolf	8	198	141	8	198	141

### Hardware

CPU: Intel Xeon Processor 7041 (3.0 GHz, 2x2MB L2, 800MHz system bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 8 cores, 4 chips, 2 cores/chip (Hyper-Threading Technology disabled)  
CPU(s) orderable: 1,2,3,4  
Parallel: No  
Primary Cache: 12KB(I) micro-ops + 16KB(D) on chip, per core  
Secondary Cache: 2048KB(I+D) on chip, per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 16 x 1024MB ECC DDR2-400 SDRAM  
Disk Subsystem: 1 x 73GB 10000RPM U320 SCSI HDD  
Other Hardware:

### Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition (Build 3790), Service Pack 1  
Compiler: Intel C++ Compiler 9.0 Build 20051130Z for IA32  
Microsoft Visual Studio .Net 2003 (7.1.3091, for libraries)  
shlw32M.lib is 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 shlw32M.lib
Portability flags:
176.gcc: -Dalloca=_alloca /F10000000
186.crafty: -DNT_i386
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
256.bzip2: -fast -Oa -Qunroll1 +FDO
```



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## Notes/Tuning Information (Continued)

300.twolf: -fast +FDO shlw32M.lib  
Enable hardware prefetching and adjacent cache line prefetch BIOS setting