



# CINT2000 Result

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Acer Incorporated  
Altos G530 (3.0 GHz Intel Xeon)

SPECint2000 = 1443  
SPECint\_base2000 = 1440

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

| Benchmark   | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio | 1000 2000 3000 4000            |  |  |  |
|-------------|----------------|--------------|------------|---------|-------|--------------------------------|--|--|--|
| 164.gzip    | 1400           | 140          | 1001       | 140     | 1001  | [Bar chart showing ratio 1001] |  |  |  |
| 175.vpr     | 1400           | 139          | 1004       | 137     | 1020  | [Bar chart showing ratio 1020] |  |  |  |
| 176.gcc     | 1100           | 64.8         | 1697       | 64.8    | 1697  | [Bar chart showing ratio 1697] |  |  |  |
| 181.mcf     | 1800           | 107          | 1681       | 107     | 1681  | [Bar chart showing ratio 1681] |  |  |  |
| 186.crafty  | 1000           | 89.9         | 1112       | 89.9    | 1112  | [Bar chart showing ratio 1112] |  |  |  |
| 197.parser  | 1800           | 146          | 1231       | 146     | 1231  | [Bar chart showing ratio 1231] |  |  |  |
| 252.eon     | 1300           | 69.4         | 1873       | 69.2    | 1879  | [Bar chart showing ratio 1879] |  |  |  |
| 253.perlbmk | 1800           | 104          | 1737       | 103     | 1743  | [Bar chart showing ratio 1743] |  |  |  |
| 254.gap     | 1100           | 67.9         | 1620       | 67.9    | 1620  | [Bar chart showing ratio 1620] |  |  |  |
| 255.vortex  | 1900           | 79.2         | 2398       | 79.2    | 2398  | [Bar chart showing ratio 2398] |  |  |  |
| 256.bzip2   | 1500           | 140          | 1069       | 140     | 1075  | [Bar chart showing ratio 1075] |  |  |  |
| 300.twolf   | 3000           | 200          | 1497       | 200     | 1497  | [Bar chart showing ratio 1497] |  |  |  |

### Hardware

CPU: Intel Xeon (3.0 GHz, 2MB L2, 800MHz system bus)  
CPU MHz: 3000  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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: 4 x 1024MB ECC DDR2-400 SDRAM  
Disk Subsystem: 1 x 146GB 10000RPM U320 SCSI HDD  
Other Hardware:

### Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition (Build 3790) SP1  
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.perlbmk: -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.perlbmk: -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