



# CFP2000 Result

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Acer Incorporated  
Altos G530 (3.0 GHz Intel Xeon)

SPECfp2000 = 1570

SPECfp\_base2000 = 1552

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 |  |
|--------------|----------------|--------------|------------|---------|-------|--|
| 168.wupwise  | 1600           | 71.5         | 2239       | 71.5    | 2239  |  |
| 171.swim     | 3100           | 149          | 2078       | 150     | 2072  |  |
| 172.mgrid    | 1800           | 138          | 1302       | 138     | 1303  |  |
| 173.applu    | 2100           | 160          | 1310       | 160     | 1310  |  |
| 177.mesa     | 1400           | 107          | 1309       | 107     | 1309  |  |
| 178.galgel   | 2900           | 102          | 2843       | 102     | 2841  |  |
| 179.art      | 2600           | 69.4         | 3748       | 69.4    | 3748  |  |
| 183.quake    | 1300           | 64.5         | 2017       | 64.5    | 2016  |  |
| 187.facerec  | 1900           | 117          | 1622       | 117     | 1622  |  |
| 188.amp      | 2200           | 228          | 963        | 196     | 1124  |  |
| 189.lucas    | 2000           | 110          | 1823       | 110     | 1824  |  |
| 191.fma3d    | 2100           | 164          | 1278       | 164     | 1278  |  |
| 200.sixtrack | 1100           | 203          | 542        | 201     | 546   |  |
| 301.apsi     | 2600           | 242          | 1072       | 242     | 1073  |  |

### 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++ Build 20041019Z and Fortran Compiler 8.1 Build 20040802Z  
 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 Fortran Programs : -fast -Qansi_alias +FDO
177.mesa:Base for C Program: -fast +FDO shlw32M.lib
179.art:Base for C Program: -fast +FDO shlw32M.lib
183.quake:Base for C Program: -fast +FDO shlw32M.lib
188.amp:Base for C Program: -fast +FDO shlw32M.lib
Portability:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -fast -Qansi_alias +FDO
171.swim: -fast -Qansi_alias +FDO
172.mgrid: -fast -Qansi_alias +FDO
173.applu: basepeak=yes
177.mesa: basepeak=yes
178.galgel: -fast -Qansi_alias +FDO
179.art: basepeak=yes
183.quake: -fast -Oa -Qrcd -Qprof_gen shlw32M.lib
```



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## Notes/Tuning Information (Continued)

```
187.facerec: basepeak=yes
188.ammf: -Oa -QxP
189.lucas: -fast -Qprefetch- +FDO
191.fma3d: basepeak=yes
200.sixtrack: -Qipo -QxP +FDO
301.apsi: -fast +FDO
Enable hardware prefetching and adjacent cache line prefetch BIOS setting
```