



# CFP2000 Result

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**Acer Incorporated**  
Acer Altos R520 (1.86 GHz Intel Xeon Processor E5320)

SPECfp\_rate2000 = 46.9  
SPECfp\_rate\_base2000 = 46.6

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	124	59.8	4	124	59.8
171.swim	4	527	27.3	4	527	27.3
172.mgrid	4	325	25.7	4	325	25.7
173.applu	4	363	26.9	4	363	26.9
177.mesa	4	82.5	78.8	4	82.5	78.8
178.galgel	4	99.5	135	4	99.6	135
179.art	4	99.1	122	4	99.1	122
183.quake	4	157	38.4	4	157	38.4
187.facerec	4	151	58.2	4	151	58.2
188.amp	4	215	47.5	4	192	53.3
189.lucas	4	316	29.4	4	316	29.4
191.fma3d	4	298	32.7	4	298	32.7
200.sixtrack	4	151	33.7	4	153	33.3
301.apsi	4	269	44.8	4	270	44.7

### Hardware

CPU: Intel Xeon Processor E5320 (1.86 GHz, 8MB L2, 1066 MHz system bus)  
CPU MHz: 1866  
FPU: Integrated  
CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip  
CPU(s) orderable: 1,2 chips  
Parallel: No  
Primary Cache: 32KB(I) + 32KB(D) on chip, per core  
Secondary Cache: 8MB(I+D) on chip, per chip (4MB shared per 2 cores)  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 8 x 2048MB ECC FB-DIMM DDR2-667  
Disk Subsystem: 1 x 73GB 10KRPM SAS HDD  
Other Hardware:

### Software

Operating System: Microsoft Windows Server 2003 Enterprise Edition (Build 3790), Service Pack 1  
Compiler: Intel C++ 9.1 Build 20060323Z for IA32 and Fortran Compiler 9.1 Build 20060323Z for IA32  
Microsoft Visual Studio .Net 2003 (7.1.5091, 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 all Fortran Programs : -fast -Qansi_alias +FDO
Base tuning for all C Programs: -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 +FDO shlw32M.lib
187.facerec: basepeak=yes
188.amp: -Oa -QxP
189.lucas: -fast -Qprefetch- +FDO
```



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## Notes/Tuning Information (Continued)

```
191.fma3d:    basepeak=yes
200.sixtrack: -Qipo -QxP +FDO
301.apsi:     -fast +FDO
```

The Altos R720 and Altos R520 are electronically equivalent.