



# CFP2000 Result

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**Dell**  
PowerEdge 830 (3.2GHz Intel dual-core Pentium D)

SPECfp\_rate2000 = 31.1  
SPECfp\_rate\_base2000 = 31.0

SPEC license #: 55 | Tested by: Dell, Round Rock, TX | Test date: Jul-2005 | Hardware Avail: Aug-2005 | Software Avail: Nov-2004

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	69.8	53.1	2	69.8	53.1
171.swim	2	216	33.4	2	216	33.4
172.mgrid	2	146	28.7	2	146	28.7
173.applu	2	174	27.9	2	175	27.9
177.mesa	2	97.9	33.2	2	97.9	33.2
178.galgel	2	143	47.0	2	143	47.0
179.art	2	138	43.8	2	138	43.8
183.quake	2	93.9	32.1	2	94.3	32.0
187.facerec	2	123	36.0	2	123	35.7
188.amp	2	245	20.9	2	239	21.4
189.lucas	2	145	31.9	2	144	32.2
191.fma3d	2	172	28.3	2	172	28.3
200.sixtrack	2	191	13.3	2	189	13.5
301.apsi	2	224	26.9	2	224	26.9

### Hardware

CPU: Intel dual-core Pentium D (3.2GHz, 2x1MB L2, 800MHz system bus)  
CPU MHz: 3200  
FPU: Integrated  
CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip  
CPU(s) orderable: 1  
Parallel: No  
Primary Cache: 12K(I)micro-ops + 16KB(D) on chip, per core  
Secondary Cache: 1024KB(I+D) on chip, per core  
L3 Cache: N/A  
Other Cache: N/A  
Memory: 4x1GB (dual-ranked) ECC 533MHz DDR2 SDRAM  
Disk Subsystem: 1 x 36GB 15000RPM SCSI  
Other Hardware: None

### Software

Operating System: Windows 2003 Server, Standard Edition, Service Pack 1  
Compiler: Intel C/C++/FORTRAN Compiler 8.1 for IA32 (20041119Z)  
Microsoft Visual Studio .NET 2003(7.1.3088, for libraries)  
MicroQuill SmartHeap Library 7.1  
File System: NTFS  
System State: Default

## Notes/Tuning Information

### GENERAL

ONESTEP=yes  
+FDO: PASS1=-Qprof\_gen PASS2=-Qprof\_use

### PORTABILITY

178.galgel: -FI /F3200000  
191.fma3d: srcalt=windowsdp

### BASE TUNING

C/F77/F90: -fast -Qansi\_alias +FDO

### PEAK TUNING

168.wupwise: basepeak=yes  
171.swim: basepeak=yes  
172.mgrid: basepeak=yes  
173.applu: -fast -Qansi\_alias -Qscalar\_rep- -Qauto +FDO  
177.mesa: basepeak=yes  
178.galgel: basepeak=yes  
179.art: basepeak=yes  
183.quake: -fast -Qansi\_alias -Oa -Qrcd +FDO



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## Notes/Tuning Information (Continued)

```
187.facerec: -fast -Qunroll11 -Qscalar_rep- +FDO
188.ammf: -Oa -QxP
189.lucas: -fast
191.fma3d: basepeak=yes
200.sixtrack: -QxP -Qipo +FDO
301.apsi: basepeak=yes
```