



# CFP2000 Result

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**CAIRA**  
**PCSC32-E (3.2 GHz Intel pentium 4)**

SPECfp2000 = **1783**  
SPECfp\_base2000 = **1779**

SPEC license #: 3195 | Tested by: CAIRA | Test date: May-2006 | Hardware Avail: May-2006 | Software Avail: May-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	63.8	2508	63.7	2512	
171.swim	3100	131	2364	131	2364	
172.mgrid	1800	127	1423	126	1424	
173.applu	2100	137	1530	137	1530	
177.mesa	1400	99.6	1405	99.6	1405	
178.galgel	2900	87.0	3334	87.0	3334	
179.art	2600	61.0	4260	61.0	4260	
183.quake	1300	50.2	2592	50.2	2592	
187.facerec	1900	101	1878	101	1878	
188.amp	2200	194	1131	186	1181	
189.lucas	2000	99.1	2019	99.0	2020	
191.fma3d	2100	148	1418	148	1418	
200.sixtrack	1100	173	635	175	628	
301.apsi	2600	211	1234	211	1234	

### Hardware

CPU: Intel P4 (3.2 GHz, 2MB L2, 800MHz system bus)  
CPU MHz: 3200  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip(Hyper-Threading Technology enabled)  
CPU(s) orderable: 1  
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: 2 x 256 MB ECC DDR2-533 SDRAM Dual Channel  
Disk Subsystem: 1 x 80GB SATA HDD  
Other Hardware:

### Software

Operating System: Microsoft Windows XP  
Compiler: Intel(R) C++ Compiler for 32-bit, Version 9.0  
Intel(R) Fortran Compiler for 32-bit, Version 9.0  
Microsoft Visual Studio .NET 2003 (for libraries)  
MicroQuill SmartHeap version 8.0  
File System: NTFS  
System State: Default

## Notes/Tuning Information

```
+FDO: PASS1= -Qprof_gen PASS2=-Qprof_use
+FDO*: FDO (-QxP not used in PASS1 to enable cross-compilation)
Base tuning for Fortran Programs : -fast -Qansi_alias -Qprof_gen +FDO
177.mesa:Base for C Program: -fast -Qprof_gen shlw32m.lib
179.art:Base for C Program: -fast -Qprof_gen shlw32m.lib
183.quake:Base for C Program: -fast -Qprof_gen shlw32m.lib
188.amp:Base for C Program: -fast -Qprof_gen shlw32m.lib
Portability flags:
178.galgel: -FI /F32000000
Peak tuning:
168.wupwise: -fast -Qansi_alias +FDO
171.swim: basepeak=yes
172.mgrid: -fast -Qansi_alias +FDO
173.applu: basepeak=yes
177.mesa: basepeak=yes
178.galgel: -fast -Qansi_alias +FDO
179.art: basepeak=yes
```



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## Notes/Tuning Information (Continued)

183.equake: -fast -Oa -Qrcd -Qprof\_gen shlw32m.lib ONESTEP=yes  
187.facerec: basepeak=yes  
188.ammp: -fast -Oa +FDO  
189.lucas: -fast -Qprefetch- +FDO  
191.fma3d: basepeak=yes  
200.sixtrack: -Qipo -QxP +FDO\*  
301.apsi: -fast +FDO