CFP2000 Result

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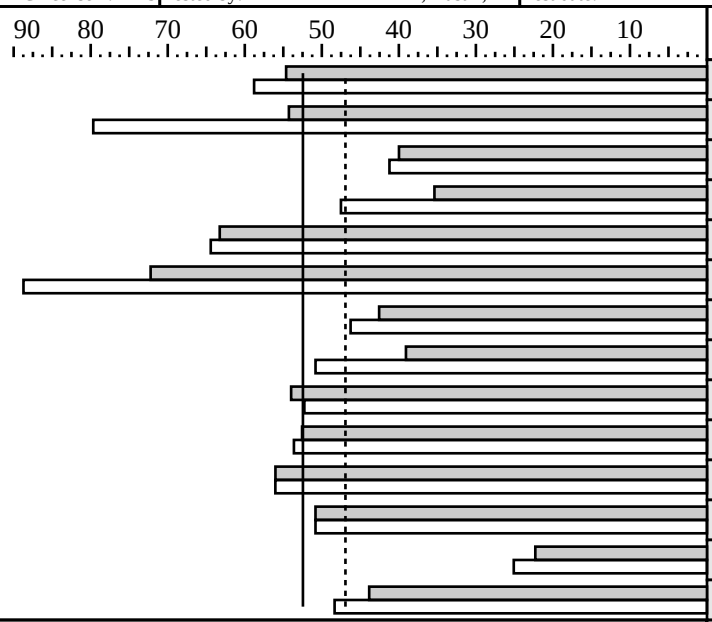
Appro 4144H

SPECfp_rate2000 = 52.5

SPECfp_rate_base2000 = 46.9

SPEC license #: 49 | Tested by: AMD, Austin, TX | Test date: Sep-2003 | Hardware Avail: Sep-2003 | Software Avail: May-2003



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	136	54.6	4	126	58.8
171.swim	4	265	54.3	4	181	79.7
172.mgrid	4	209	40.0	4	203	41.2
173.applu	4	275	35.4	4	205	47.5
177.mesa	4	103	63.3	4	101	64.4
178.galgel	4	186	72.2	4	152	88.7
179.art	4	283	42.6	4	261	46.3
183.equake	4	154	39.1	4	119	50.8
187.facerec	4	163	54.0	4	169	52.3
188.ammp	4	194	52.6	4	190	53.6
189.lucas	4	166	56.0	4	166	56.0
191.fma3d	4	192	50.8	4	192	50.8
200.sixtrack	4	229	22.3	4	203	25.1
301.apsi	4	275	43.8	4	250	48.3

Hardware

CPU:	AMD Opteron (TM) 846
CPU MHz:	2000
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	1,2,4
Parallel:	No
Primary Cache:	64KBI + 64KBD on chip
Secondary Cache:	1024KB(I+D) on chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	8x512MB Registered ECC DRR 333, CL2.5
Disk Subsystem:	SCSI, U160, 18GB 15k RPM
Other Hardware:	None

Software

Operating System:	Microsoft Windows 2003 Server Enterprise Edition
Compiler:	Intel C/C++ 7.0 build 20021212Z and Intel Fortran 7.0 build 20021212Z Compaq Visual Fortran Compiler Version 6.6 (Update B) Microsoft Visual Studio .NET 7.0.9466 (for libraries) MicroQuill Smartheap Library 6.0
File System:	NTFS
System State:	Default

Notes/Tuning Information

```
+FDO: PASS1=-Qprof_gen  PASS2=-Qprof_use
icl and ifl are the Intel C/C++ and Fortran compilers
f90 is the Compaq Fortran compiler
shlW32M6.lib is the SmartHeap library V6.0 from MicroQuill www.microquill.com
Portability:
  178.galgel: -FI -Fe$@ -link -stack:32000000
Baseline: C       icl +FDO -O3 -QxW  -Qipo
Baseline: Fortran ifl +FDO -O3 -QxW  -Qipo
Peak tuning:
  168.wupwise:    ifl +FDO     -QxK  -Qipo -Ow
  171.swim:       f90 -Optimize:5 -alignment:dcommons -alignment:records
                      -alignment:sequence -architecture:k7
                      -assume:noaccuracy_sensitive -math_library:fast -tune:k7
  172.mgrid:      ifl +FDO -O3 -QaxW -Qipo -Oa -Qprefetch-
  173.applu:      ifl +FDO -O3 -QxK  -Qipo     -Qscalar_rep-           -Zp8
  177.mesa:       icl +FDO -O3 -QxW  -Qipo -Oa -Qscalar_rep-
  178.galgel:     f90 -Optimize:5 -fast
```

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Notes/Tuning Information (Continued)

```
  179.art:        icl                -Qipo -Oa                -Qunroll4 -Zp4
  183.equake:     icl      -O3 -QxK  -Qipo -Oa shlW32M6.lib             -Zp4
  187.facerec:    ifl +FDO -O3 -QaxW -Qipo     -Qscalar_rep- -Qunroll1
  188.ammp:       icl           -QxW        -Oa
  189.lucas:      ifl +FDO -O3 -QxW  -Qipo     -Qprefetch-
  191.fma3d:      ifl basepeak=1
  200.sixtrack:   ifl                -Qipo -Oa                          -Zp4
  301.apsi:       f90 -Optimize:5 -fast
ONESTEP is used for all base and peak runs
ECC on, ECC scrubbing off
```