CFP2000 Result

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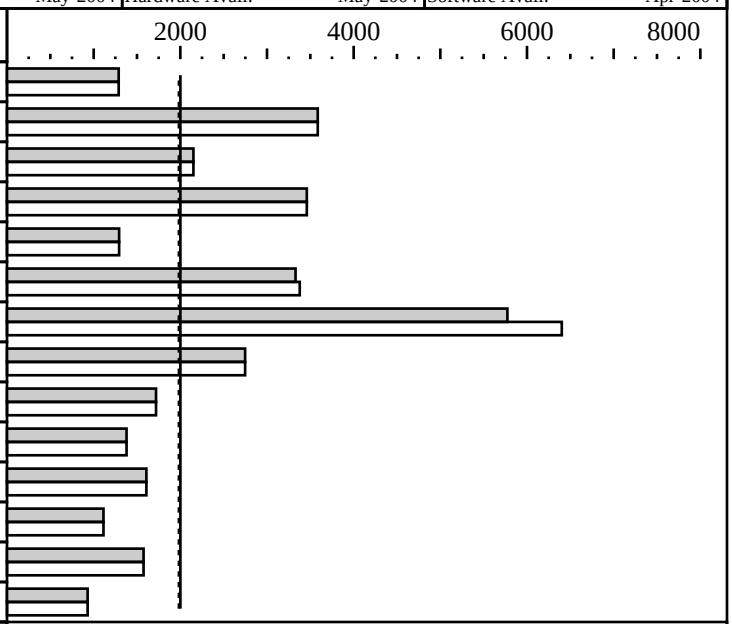
ION
I2X2 (1.6GHz Itanium 2 processor)

SPECfp2000 = 2001

SPECfp_base2000 = 1984

SPEC license #: 2697 | Tested by: ION | Test date: May-2004 | Hardware Avail: May-2004 | Software Avail: Apr-2004

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	124	1289	124	1289
171.swim	3100	86.5	3586	86.5	3586
172.mgrid	1800	83.7	2151	83.7	2151
173.applu	2100	60.7	3459	60.7	3459
177.mesa	1400	108	1294	108	1294
178.galgel	2900	87.1	3329	85.9	3378
179.art	2600	45.0	5774	40.6	6401
183.equake	1300	47.3	2748	47.3	2748
187.facerec	1900	110	1720	110	1720
188.ammp	2200	159	1379	159	1379
189.lucas	2000	124	1608	124	1608
191.fma3d	2100	189	1113	189	1113
200.sixtrack	1100	69.8	1576	69.8	1576
301.apsi	2600	279	930	279	930



Hardware

CPU:	Intel Itanium 2
CPU MHz:	1596
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1-2
Parallel:	No
Primary Cache:	16KBI + 16KBD per core (on chip)
Secondary Cache:	256KB (I+D) per core (on chip)
L3 Cache:	3072KB (I+D) per core (on chip)
Other Cache:	N/A
Memory:	8 GB (8x1024KB DDR266, 2.5-3-3 DIMMs)
Disk Subsystem:	1x 18GB SCSI (Seagate Cheetah 10k rpm)
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux AS 2.1, smp kernel, 2.4.18-e.43
Compiler:	Intel(R) Fortran Compiler for Linux 8.0 (Build 20040416) Intel(R) C++ Compiler for Linux 8.0 (Build 20040416) MicroQuill SmartHeap library 7.01
File System:	ext3
System State:	Multi-user

Notes/Tuning Information

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Only one processor installed.



Baseline optimization flags:
      C programs: PASS1=-prof_gen  PASS2=-fast -auto_ilp32 -ansi_alias -prof_use
Fortran programs: PASS1=-prof_gen  PASS2=-fast -prof_use

FP Peak optimization flags:
  168.wupwise: basepeak=yes
  171.swim: basepeak=yes
  172.mgrid: basepeak=yes
  173.applu: basepeak=yes
  177.mesa: basepeak=yes
```

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Notes/Tuning Information (Continued)

```
    178.galgel: PASS1=-prof_gen  PASS2=-O3 -ipo -prof_use
    179.art: PASS1=-prof_gen  PASS2=-O3 -ipo -ansi_alias -prof_use
    183.equake: basepeak=yes
    187.facerec: basepeak=yes
    188.ammp: basepeak=yes
    189.lucas: basepeak=yes
    191.fma3d: basepeak=yes
    200.sixtrack: basepeak=yes
    301.apsi: basepeak=yes

  Portability Flags:
    178.galgel:  -FI
```