CFP2000 Result

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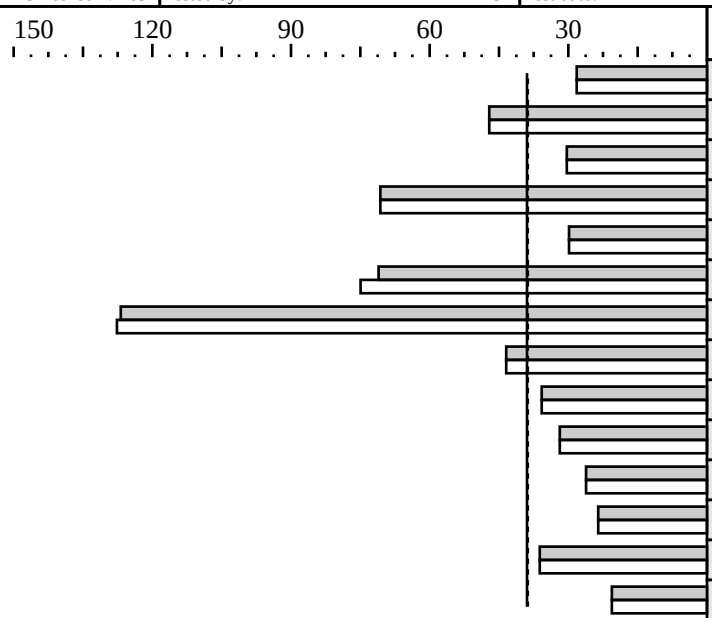
ION
I2X2 (1.6GHz Itanium 2 processor)

SPECfp_rate2000 = 38.9

SPECfp_rate_base2000 = 38.8

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	132	28.2	2	132	28.2
171.swim	2	153	47.1	2	153	47.1
172.mgrid	2	138	30.3	2	138	30.3
173.applu	2	68.9	70.7	2	68.9	70.7
177.mesa	2	109	29.9	2	109	29.9
178.galgel	2	94.7	71.1	2	89.8	74.9
179.art	2	47.6	127	2	47.3	128
183.equake	2	69.4	43.4	2	69.4	43.4
187.facerec	2	123	35.8	2	123	35.8
188.ammp	2	160	31.8	2	160	31.8
189.lucas	2	177	26.2	2	177	26.2
191.fma3d	2	207	23.5	2	207	23.5
200.sixtrack	2	70.5	36.2	2	70.5	36.2
301.apsi	2	293	20.6	2	293	20.6

Hardware

CPU:	Intel Itanium 2
CPU MHz:	1596
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 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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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
```