CFP2000 Result

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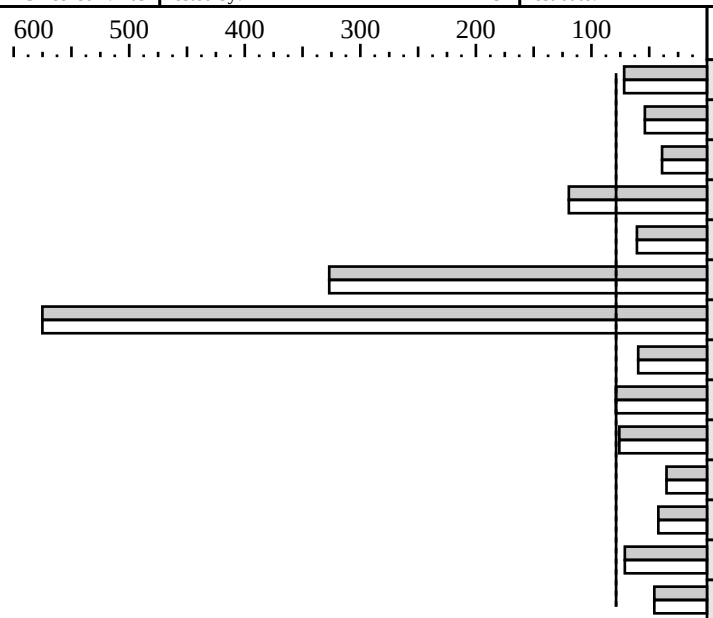
ION
I2X4 (1.6GHz Itanium 2 processor)

SPECfp_rate2000 = 78.7

SPECfp_rate_base2000 = 78.7

SPEC license #: 2697 | Tested by: ION | Test date: Jan-2005 | Hardware Avail: Jan-2005 | Software Avail: Dec-2004



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	104	71.7	4	104	71.7
171.swim	4	268	53.8	4	268	53.8
172.mgrid	4	215	38.9	4	215	38.9
173.applu	4	81.5	120	4	81.5	120
177.mesa	4	107	60.6	4	107	60.6
178.galgel	4	41.2	327	4	41.2	327
179.art	4	21.0	575	4	21.0	575
183.equake	4	101	59.5	4	101	59.5
187.facerec	4	112	78.8	4	112	78.8
188.ammp	4	135	75.9	4	135	75.9
189.lucas	4	265	35.0	4	265	35.0
191.fma3d	4	231	42.1	4	231	42.1
200.sixtrack	4	71.8	71.1	4	71.8	71.1
301.apsi	4	265	45.6	4	265	45.6

Hardware

CPU:	Intel Itanium 2 processor
CPU MHz:	1596
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	1-4
Parallel:	No
Primary Cache:	16KBI + 16KBD (on chip) per CPU
Secondary Cache:	256KB (I+D) (on chip) per CPU
L3 Cache:	9MB (I+D) (on chip) per CPU
Other Cache:	N/A
Memory:	32 GB (16x2048MB DDR266 DIMMS)
Disk Subsystem:	1x36GB SCSI (Seagate Cheetah 15k rpm)
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux AS 3 Update 4, 2.4.21-27.EL, IPF
Compiler:	Intel(R) Fortran Compiler for Linux 8.1, IPF (Build 20041123) Intel(R) C Compiler for Linux 8.1, IPF (Build 20041123) MicroQuill SmartHeap library 7.01, IPF
File System:	ext3
System State:	Multi-user, run level 3

Notes/Tuning Information

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Tested by ION Computer Systems
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Baseline optimization flags:
      C programs: -fast -IPF_fp_relaxed -ansi_alias +FDO
Fortran programs: -fast -IPF_fp_relaxed +FDO
            +FDO: PASS1=-prof_gen  PASS2=-prof_use

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

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Notes/Tuning Information (Continued)

```
    177.mesa: basepeak=yes
    178.galgel: basepeak=yes
    179.art: basepeak=yes
    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
```