CFP2000 Result

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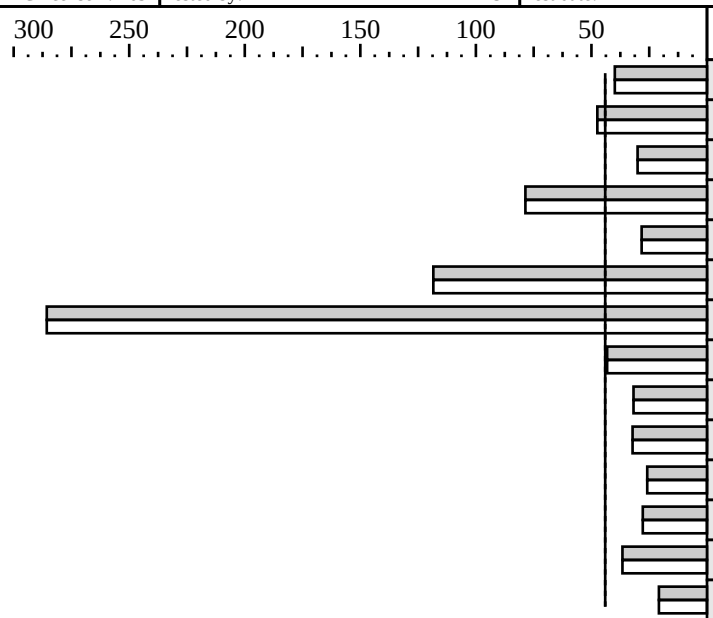
ION
I2X2 (1.6GHz Itanium 2 processor)

SPECfp_rate2000 = 44.0

SPECfp_rate_base2000 = 44.0

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	93.1	39.9	2	93.1	39.9
171.swim	2	152	47.4	2	152	47.4
172.mgrid	2	139	30.0	2	139	30.0
173.applu	2	62.0	78.6	2	62.0	78.6
177.mesa	2	115	28.3	2	115	28.3
178.galgel	2	56.8	118	2	56.8	118
179.art	2	21.1	286	2	21.1	286
183.equake	2	69.8	43.2	2	69.8	43.2
187.facerec	2	139	31.8	2	139	31.8
188.ammp	2	158	32.2	2	158	32.2
189.lucas	2	179	25.9	2	179	25.9
191.fma3d	2	175	27.8	2	175	27.8
200.sixtrack	2	69.8	36.6	2	69.8	36.6
301.apsi	2	290	20.8	2	290	20.8

Hardware

CPU:	Intel Itanium 2 processor
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 (on chip) per CPU
Secondary Cache:	256KB (I+D) (on chip) per CPU
L3 Cache:	3072KB (I+D) (on chip) per CPU
Other Cache:	N/A
Memory:	8 GB (8x1GB DDR266, 2.5-3-3 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

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: 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
```