CFP2000 Result

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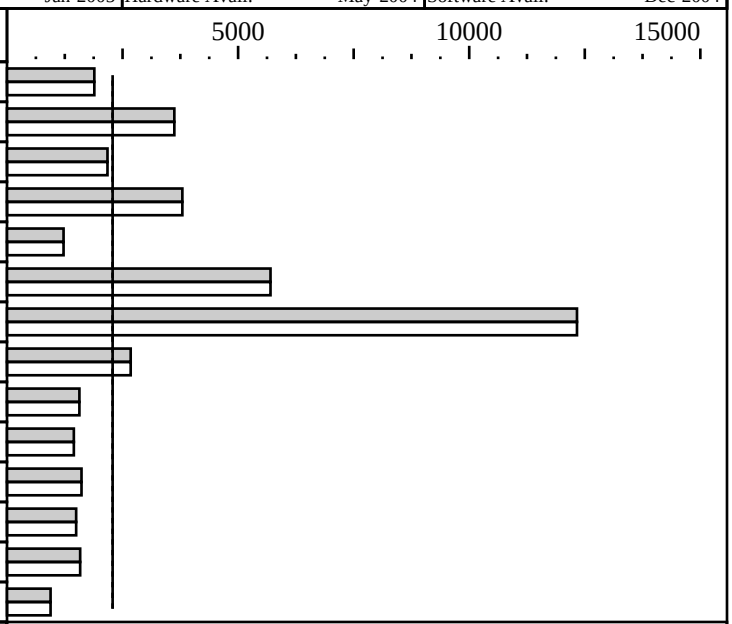
ION
I2X2 (1.6GHz Itanium 2 processor)

SPECfp2000 = 2285

SPECfp_base2000 = 2285

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	84.7	1889	84.7	1889
171.swim	3100	85.6	3620	85.6	3620
172.mgrid	1800	82.8	2174	82.8	2174
173.applu	2100	55.4	3794	55.4	3794
177.mesa	1400	114	1224	114	1224
178.galgel	2900	50.9	5701	50.9	5701
179.art	2600	21.1	12331	21.1	12331
183.equake	1300	48.6	2676	48.6	2676
187.facerec	1900	121	1566	121	1566
188.ammp	2200	152	1446	152	1446
189.lucas	2000	124	1612	124	1612
191.fma3d	2100	140	1496	140	1496
200.sixtrack	1100	69.5	1583	69.5	1583
301.apsi	2600	276	943	276	943



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)

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    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
```