CFP2000 Result

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ION Computer Systems

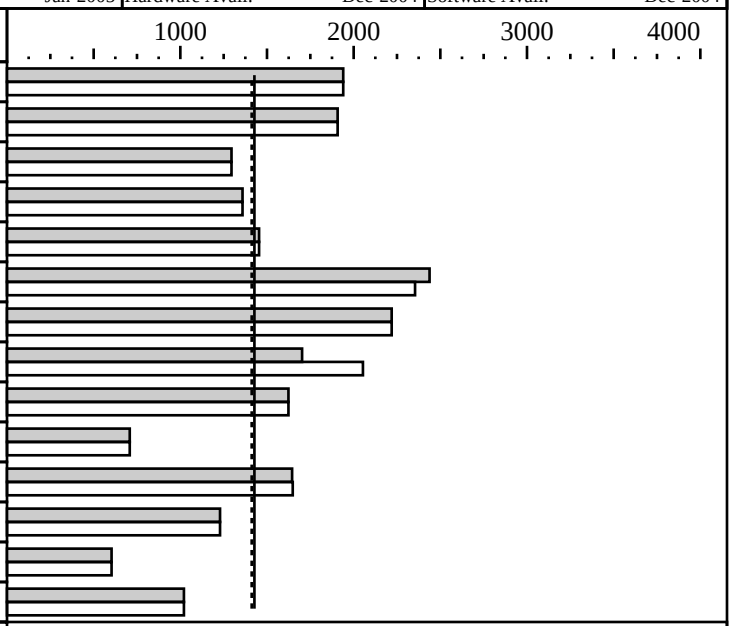
LN10J (3.4GHz Xeon processor,1MB L2 cache,800MHz FSB)

SPECfp2000 = 1427

SPECfp_base2000 = 1412

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	82.5	1940	82.5	1940
171.swim	3100	163	1908	163	1908
172.mgrid	1800	139	1295	139	1295
173.applu	2100	155	1359	155	1359
177.mesa	1400	96.3	1454	96.3	1454
178.galgel	2900	119	2438	123	2354
179.art	2600	117	2219	117	2219
183.equake	1300	76.4	1702	63.3	2053
187.facerec	1900	117	1624	117	1624
188.ammp	2200	311	708	311	708
189.lucas	2000	122	1645	121	1648
191.fma3d	2100	171	1229	171	1229
200.sixtrack	1100	182	603	182	603
301.apsi	2600	255	1021	255	1021



Hardware

CPU:	Intel Xeon processor, 800MHz system bus
CPU MHz:	3189
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip, HyperThreading disabled
CPU(s) orderable:	1-2
Parallel:	No
Primary Cache:	12K(I) micro-ops + 8KB(D) on chip
Secondary Cache:	1024KB (I+D) on chip
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4x1GB DDR2-400 DIMMs)
Disk Subsystem:	1x 250GB SATA
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux ES 3, IA-32, 2.4.21 smp kernel
Compiler:	Intel(R) Fortran Compiler for Linux 8.1, IA-32 (Build 20041118Z) Intel(R) C++ Compiler for Linux 8.1, IA-32 (Build 20041118Z) MicroQuill SmartHeap Library 7.1, IA-32 (www.microquill.com)
File System:	ext2
System State:	Multi-user, run level 3

Notes/Tuning Information

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HyperThreading disabled in BIOS

Baseline optimization flags:
      C programs: PASS1= -xN -prof_gen PASS2= -xN -fast -prof_use
Fortran programs: PASS1= -xN -prof_gen PASS2= -xN -ipo -O3 -prof_use

FP Peak optimization flags:
     168.wupwise: basepeak=yes
        171.swim: basepeak=yes
        72.mgrid: basepeak=yes
       173.applu: basepeak=yes
        177.mesa: basepeak=yes
      178.galgel: -xN -O3 -ipo -ansi_alias +FDO
         179.art: basepeak=yes
      183.equake: PASS1= -xW -prof_gen PASS2= -xW -fast -prof_use
   Extra Library: -L${SH_PATH} -lsmartheap  (SH_PATH is path to SmartHeap Library)
     187.facerec: basepeak=yes
```

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Notes/Tuning Information (Continued)

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          188.ammp: basepeak=yes
         189.lucas: -xN -O3 -ipo -prefetch- +FDO
         191.fma3d: basepeak=yes
     200.sixtrack: basepeak=yes
         301.apsi: basepeak=yes

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