CFP2000 Result

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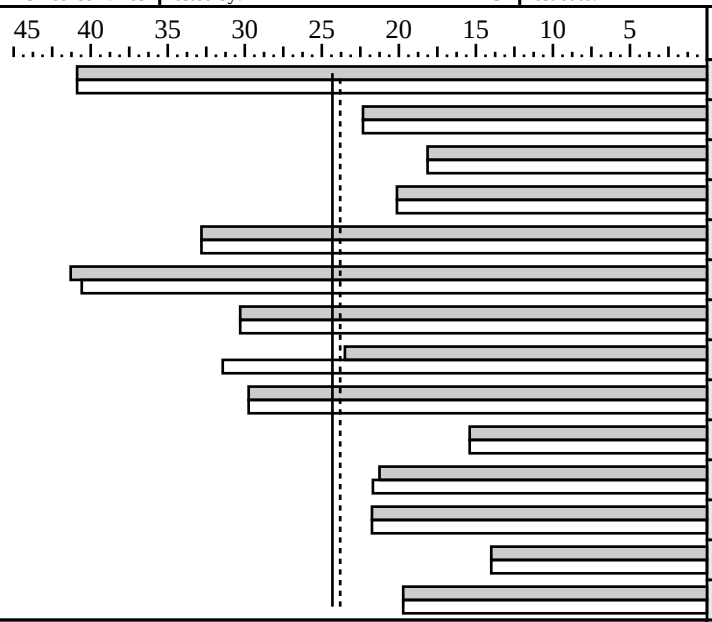
ION Computer Systems

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

SPECfp_rate2000 = 24.3

SPECfp_rate_base2000 = 23.8

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	90.8	40.9	2	90.8	40.9
171.swim	2	322	22.3	2	322	22.3
172.mgrid	2	230	18.1	2	230	18.1
173.applu	2	242	20.1	2	242	20.1
177.mesa	2	99.0	32.8	2	99.0	32.8
178.galgel	2	163	41.3	2	166	40.6
179.art	2	199	30.3	2	199	30.3
183.equake	2	128	23.5	2	96.0	31.4
187.facerec	2	148	29.7	2	148	29.7
188.ammp	2	331	15.4	2	331	15.4
189.lucas	2	218	21.3	2	214	21.7
191.fma3d	2	224	21.7	2	224	21.7
200.sixtrack	2	182	14.0	2	182	14.0
301.apsi	2	306	19.7	2	306	19.7

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

```
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
```