CFP2000 Result

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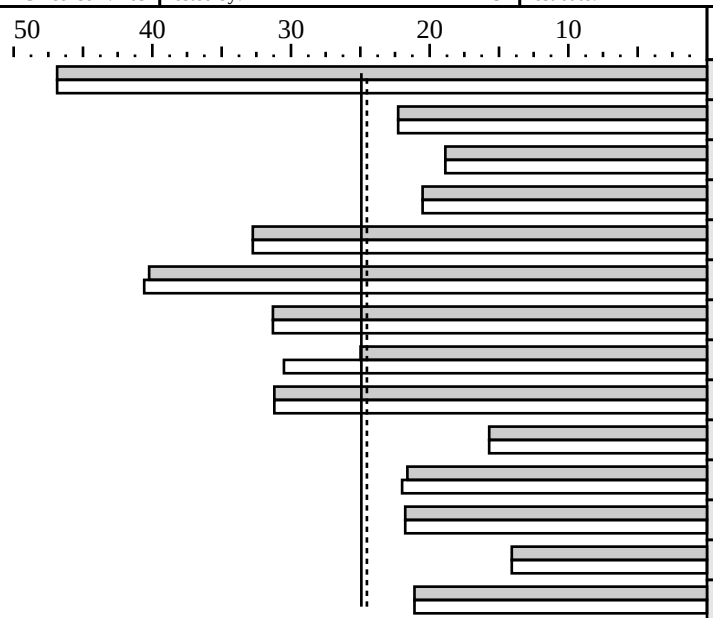
ION Computer Systems

LN10J (3.4GHz Xeon processor w. 1MB L2 cache)

SPECfp_rate2000 = 24.9

SPECfp_rate_base2000 = 24.5

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	79.2	46.9	2	79.2	46.9
171.swim	2	323	22.3	2	323	22.3
172.mgrid	2	221	18.9	2	221	18.9
173.applu	2	238	20.5	2	238	20.5
177.mesa	2	99.2	32.8	2	99.2	32.8
178.galgel	2	167	40.2	2	166	40.6
179.art	2	193	31.3	2	193	31.3
183.equake	2	121	25.0	2	98.9	30.5
187.facerec	2	141	31.2	2	141	31.2
188.ammp	2	325	15.7	2	325	15.7
189.lucas	2	215	21.6	2	211	22.0
191.fma3d	2	224	21.8	2	224	21.8
200.sixtrack	2	181	14.1	2	181	14.1
301.apsi	2	286	21.1	2	286	21.1

Hardware

CPU:	Intel Xeon processor, 800MHz system bus
CPU MHz:	3392
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:	1MB (I+D) on chip
L3 Cache:	None
Other Cache:	None
Memory:	4 GB (4x1GB DDR2-400 DIMMs)
Disk Subsystem:	80GB Seagate SATA disk
Other Hardware:	None

Software

Operating System:	SuSE Linux Professional 9.1, IA-32, 2.6.4-52-smp
Compiler:	Intel(R) Fortran Compiler, V8.1, IA-32 (Build 20041118Z) Intel(R) C Compiler, V8.1, 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: -xP -fast -ansi_alias +FDO
Fortran programs: -xP -fast +FDO

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 -fast -ansi_alias +FDO
         179.art: basepeak=yes
      183.equake: -xW -fast -lsmartheap +FDO
     187.facerec: basepeak=yes
        188.ammp: -xP -alias_args +FDO
```

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Notes/Tuning Information (Continued)

```
        189.lucas: -xN -fast -prefetch- +FDO
        191.fma3d: basepeak=yes
    200.sixtrack: basepeak=yes
        301.apsi: basepeak=yes

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