CFP2000 Result

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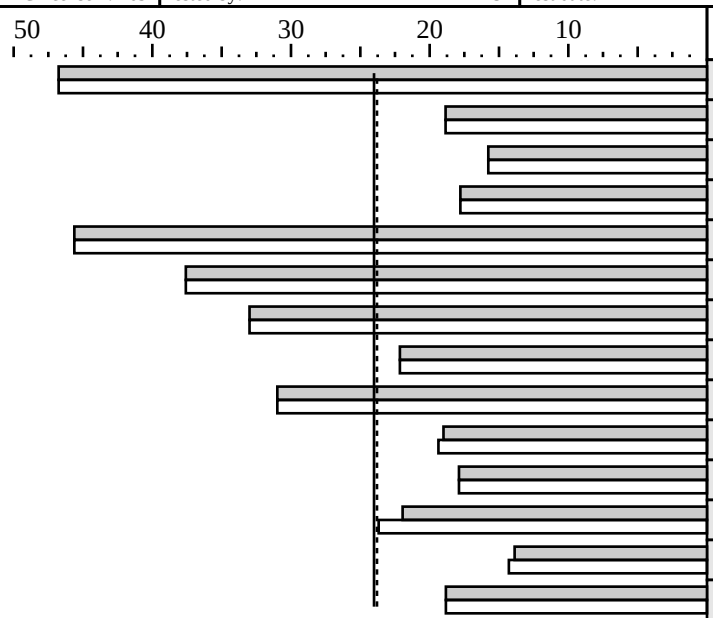
ION Computer Systems

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

SPECfp_rate2000 = 24.0

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	79.4	46.8	2	79.4	46.8
171.swim	2	381	18.9	2	381	18.9
172.mgrid	2	265	15.8	2	265	15.8
173.applu	2	274	17.8	2	274	17.8
177.mesa	2	71.2	45.6	2	71.2	45.6
178.galgel	2	179	37.6	2	179	37.6
179.art	2	183	33.0	2	183	33.0
183.equake	2	136	22.1	2	136	22.1
187.facerec	2	142	31.0	2	142	31.0
188.ammp	2	269	19.0	2	264	19.4
189.lucas	2	259	17.9	2	259	17.9
191.fma3d	2	222	22.0	2	206	23.7
200.sixtrack	2	184	13.9	2	179	14.3
301.apsi	2	320	18.8	2	320	18.8

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:	Red Hat Enterprise Linux AS 3, 2.4.21-20.ELsmp, EM64T
Compiler:	Intel(R) Fortran Compiler for EM64T, V8.1 (Build 20041123) Intel(R) C Compiler for EM64T, V8.1 (Build 20041123)
File System:	ext3
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 -ipo -O3 +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: basepeak=yes
         179.art: basepeak=yes
      183.equake: basepeak=yes
     187.facerec: basepeak=yes
        188.ammp: -xP -alias_args +FDO
```

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Notes/Tuning Information (Continued)

```
        189.lucas: basepeak=yes
        191.fma3d: -xW -ipo -O3 +FDO
    200.sixtrack: -xP -ipo +FDO
        301.apsi: basepeak=yes

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