CFP2000 Result

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ION Computer Systems

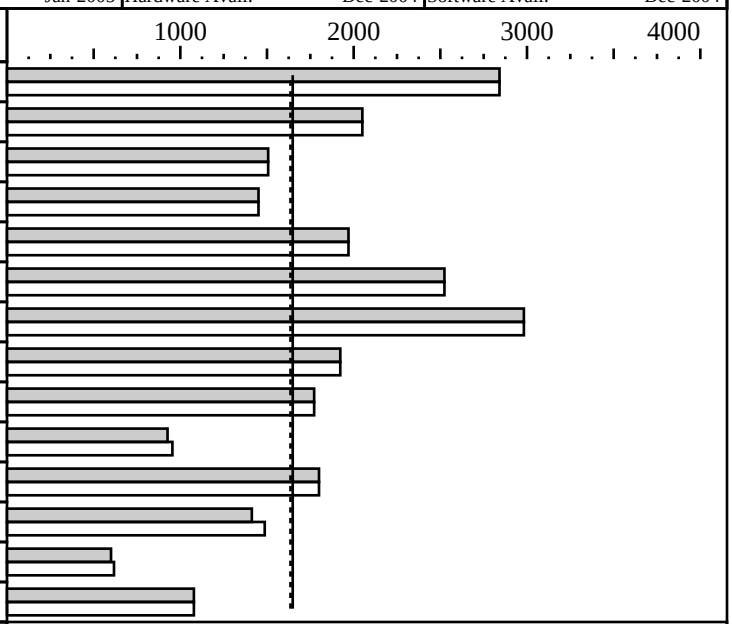
LN10J (3.4GHz Xeon processor w. 1MB L2 cache)

SPECfp2000 = 1648

SPECfp_base2000 = 1636

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	56.3	2841	56.3	2841
171.swim	3100	151	2050	151	2050
172.mgrid	1800	119	1507	119	1507
173.applu	2100	145	1451	145	1451
177.mesa	1400	71.1	1970	71.1	1970
178.galgel	2900	115	2524	115	2524
179.art	2600	87.2	2982	87.2	2982
183.equake	1300	67.6	1923	67.6	1923
187.facerec	1900	107	1772	107	1772
188.ammp	2200	238	926	231	954
189.lucas	2000	111	1800	111	1800
191.fma3d	2100	149	1413	141	1487
200.sixtrack	1100	183	600	178	617
301.apsi	2600	241	1078	241	1078



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

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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
```