CFP2000 Result

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ION Computer Systems

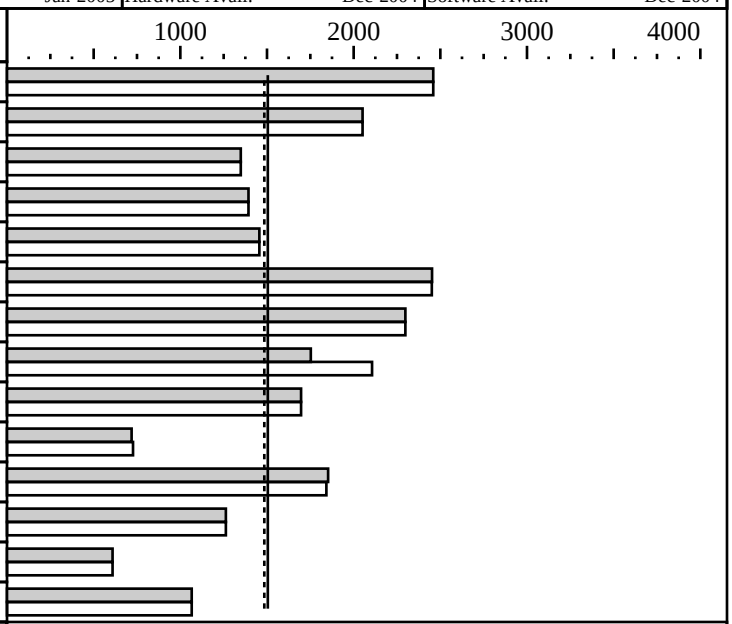
LN10J (3.4GHz Xeon processor w. 1MB L2 cache)

SPECfp2000 = 1505

SPECfp_base2000 = 1484

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	65.1	2459	65.1	2459
171.swim	3100	151	2051	151	2051
172.mgrid	1800	133	1349	133	1349
173.applu	2100	151	1393	151	1393
177.mesa	1400	96.2	1456	96.2	1456
178.galgel	2900	118	2452	118	2451
179.art	2600	113	2298	113	2298
183.equake	1300	74.2	1753	61.7	2106
187.facerec	1900	112	1697	112	1697
188.ammp	2200	306	719	303	727
189.lucas	2000	108	1853	109	1843
191.fma3d	2100	166	1263	166	1263
200.sixtrack	1100	181	609	181	609
301.apsi	2600	244	1066	244	1066



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)

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

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