CFP2000 Result

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ION

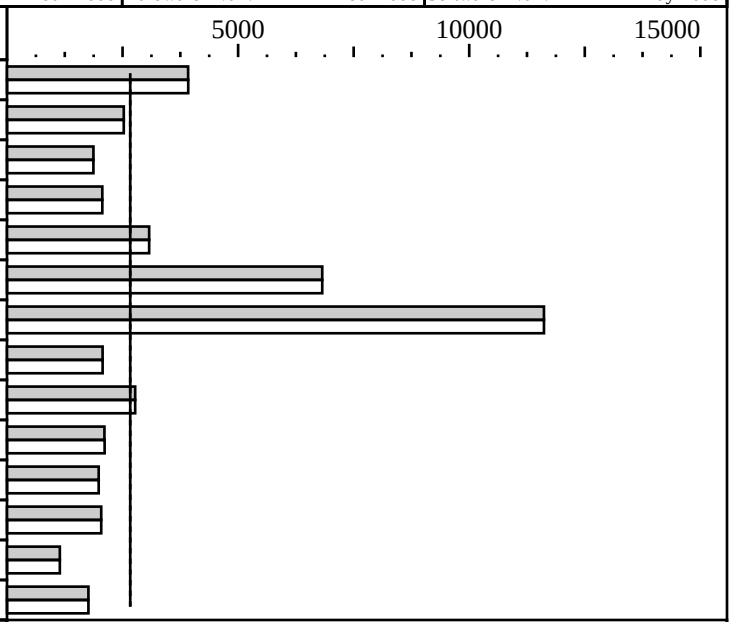
A20 (Intel Xeon processor 5160, 3.0GHz)

SPECfp2000 = 2666

SPECfp_base2000 = 2666

SPEC license #: 2697 | Tested by: ION | Test date: Jun-2006 | Hardware Avail: Jul-2006 | Software Avail: May-2006

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	40.8	3919	40.8	3921
171.swim	3100	123	2526	123	2526
172.mgrid	1800	96.3	1870	96.3	1870
173.applu	2100	102	2062	102	2062
177.mesa	1400	45.5	3075	45.5	3075
178.galgel	2900	42.5	6820	42.5	6820
179.art	2600	22.4	11617	22.4	11617
183.equake	1300	62.9	2068	62.8	2069
187.facerec	1900	68.5	2773	68.5	2773
188.ammp	2200	104	2108	104	2112
189.lucas	2000	101	1984	101	1984
191.fma3d	2100	103	2039	103	2039
200.sixtrack	1100	96.2	1143	96.2	1143
301.apsi	2600	148	1762	148	1762



Hardware

CPU:	Intel Xeon Processor 5160 (1333Mhz System Bus)
CPU MHz:	3000
FPU:	Integrated
CPU(s) enabled:	4 cores, 2 chips, 2 cores/chip
CPU(s) orderable:	1-2
Parallel:	No
Primary Cache:	32KB(I) + 32KB(D) on chip, per core
Secondary Cache:	4MB (I+D) on chip, per chip
L3 Cache:	None
Other Cache:	None
Memory:	8 GB (8*1GB PC2 5300 FB-DIMMs)
Disk Subsystem:	1 x 80GB SATA (Seagate Barracuda 7200rpm)
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux ES 4 Update 2 for AMD64/EM64T
Compiler:	Intel(R) Fortran Compiler 9.1 for EM64T (Build 20060323) Intel(R) C Compiler 9.1 for EM64T (Build 20060323)
File System:	ext3
System State:	Multi-user

Notes/Tuning Information

```
Tested by ION Computer Systems
 BIOS 01.00.0043
   Enhanced SpeedStep Disabled in BIOS
   Hardware Prefetcher Enabled in BIOS
   Adjacent Cache Line Prefetch Enabled in BIOS
 kernel 2.6.9-22.ELsmp
 +FDO: PASS1=-prof_gen  PASS2=-prof_use

    SPEC CFP2000 Baseline optimization flags
          C programs: -fast -ansi_alias +FDO
    Fortran programs: -fast +FDO
 +FDO: PASS1=-prof_gen  PASS2=-prof_use
 SPEC CFP2000 Peak optimization flags:
        168.wupwise: -fast -align all +FDO
           171.swim: -fast -align all +FDO
           72.mgrid: -fast -align all +FDO
          173.applu: -fast -align all +FDO
```

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Notes/Tuning Information (Continued)

```
            177.mesa: basepeak=yes
          178.galgel: basepeak=yes
             179.art: basepeak=yes
          183.equake: -xW -O3 -ipo -no-prec-div -static +FDO
         187.facerec: basepeak=yes
            188.ammp: -xW -O3 -ipo -no-prec-div -static +FDO
           189.lucas: basepeak=yes
           191.fma3d: basepeak=yes
       200.sixtrack: basepeak=yes
            301.apsi: basepeak=yes

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