



CFP2000 Result

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

SPECfp_rate2000 = 26.3
SPECfp_rate_base2000 = 26.3

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	75.0	49.5	2	75.0	49.5
171.swim	2	332	21.7	2	332	21.7
172.mgrid	2	216	19.3	2	216	19.3
173.applu	2	229	21.2	2	229	21.2
177.mesa	2	71.5	45.4	2	71.5	45.4
178.galgel	2	165	40.8	2	165	40.8
179.art	2	155	38.8	2	155	38.8
183.quake	2	122	24.7	2	122	24.7
187.facerec	2	135	32.6	2	135	32.6
188.amp	2	263	19.4	2	256	19.9
189.lucas	2	228	20.4	2	228	20.4
191.fma3d	2	191	25.5	2	191	25.5
200.sixtrack	2	185	13.8	2	185	13.8
301.apsi	2	288	20.9	2	288	20.9

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 for EM64T, 2.6.4-52-smp x86_64
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 -fast +FDO

FP Peak optimization flags:

168.wupwise: basepeak=yes

171.swim: basepeak=yes

172.mgrid: basepeak=yes

173.applu: basepeak=yes

177.mesa: basepeak=yes

178.galgel: basepeak=yes

179.art: basepeak=yes

183.quake: basepeak=yes

187.facerec: basepeak=yes

188.amp: -xP -alias_args +FDO

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Notes/Tuning Information (Continued)

189.lucas: basepeak=yes
191.fma3d: basepeak=yes
200.sixtrack: basepeak=yes
301.apsi: basepeak=yes

FP Portability Flags:
178.galgel: -FI