



OMPL2001 Result

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SGI
SGI Origin 3900 128X 600MHz R14000A

SPECompLpeak2001 = 197838
SPECompLbase2001 = 193992

SPEC license #HPG0014 | Tested by: SGI | Test site: SGI | Test date: Nov-2002 | Hardware Avail: Dec-2002 | Software Avail: Dec-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
311.wupwise_l	9200	497	296470	497	296470	
313.swim_l	12500	1022	195626	1022	195626	
315.mgrid_l	13500	904	239055	904	239055	
317.applu_l	13500	1147	188297	989	218439	
321.quake_l	13000	1870	111228	1870	111228	
325.apsi_l	10500	1068	157350	1068	157350	
327.gafort_l	11000	1118	157373	1118	157373	
329.fma3d_l	23500	1752	214635	1703	220773	
331.art_l	25000	1587	252116	1587	252116	

Hardware

CPU: R14000
 CPU MHz: 600
 FPU: Integrated
 CPU(s) enabled: 128
 CPU(s) orderable: 2-1024
 Primary Cache: 32KBI + 32KBD on chip
 Secondary Cache: 8MB(I+D) off chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 128 GB
 Disk Subsystem: 1 x 18 GB FC, 20x 18 GB (striped) FC
 Other Hardware: None

Software

OpenMP Threads: 128
 Parallel: OpenMP
 Operating System: IRIX 6.5.18f
 Compiler: MIPSpro 7.4 C, Fortran90
 File System: xfs
 System State: Single-user

Notes/Tuning Information

Baseline flags (C benchmarks): -64 -mp -Ofast=ip35

Baseline flags (Fortran benchmarks): -64 -mp -Ofast=ip35 -LNO:fusion=2

Peak flags:

311.wupwise_l: basepeak=true

313.swim_l: basepeak = true

315.mgrid_l: basepeak=true

317.applu_l: -64 -mp -Ofast=ip35 -LNO:prefetch=0:fusion=2 -CG:ld_latency=3

321.quake_l: basepeak = true

325.apsi_l: basepeak = true

327.gafort_l: basepeak=true

329.fma3d_l: -64 -mp -Ofast=ip35 -bigp_off -LNO:prefetch=0 -CG:ld_latency=2 -OPT:goto=off

331.art_l: basepeak = true

Baseline user environment:

```
limit stacksize 512m
OMP_NUM_THREADS=128
OMP_DYNAMIC=FALSE
MPC_GANG=OFF
_DSM_MUSTRUN=
```

Peak user environment:

317.applu_l: PAGESIZE_DATA=4096, PAGESIZE_STACK=4096, _DSM_PLACEMENT=ROUND_ROBIN

The following O/S parameters were set via systune:

percent_totalmem_4m_pages = 25 ; percent_totalmem_lm_pages = 25



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Notes/Tuning Information (Continued)

percent_totalmem_256k_pages = 10 ; percent_totalmem_64k_pages = 10