



OMPM2001 Result

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SGI

SGI Origin 3800 32X 600MHz R14000A

SPECompMpeak2001 = 13677

SPECompMbase2001 = 12057

SPEC license #HPG0014 | Tested by: SGI | Test site: SGI | Test date: Jul-2002 | Hardware Avail: Jan-2002 | Software Avail: Aug-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	
310.wupwise_m	6000	320	18769	320	18769	
312.swim_m	6000	445	13483	449	13357	
314.mgrid_m	7300	382	19090	386	18902	
316.applu_m	4000	209	19144	192	20801	
318.galgel_m	5100	549	9293	492	10369	
320.quake_m	2600	216	12039	177	14673	
324.apsi_m	3400	318	10698	246	13812	
326.gafort_m	8700	859	10127	731	11906	
328.fma3d_m	4600	599	7685	388	11842	
330.art_m	6400	519	12325	455	14061	
332.ammp_m	7000	949	7375	917	7632	

Hardware

CPU: R14000A
 CPU MHz: 600
 FPU: Integrated
 CPU(s) enabled: 32
 CPU(s) orderable: 2-512
 Primary Cache: 32KBI + 32KBD on chip
 Secondary Cache: 8MB(I+D) off chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 32 GB
 Disk Subsystem: 1 x 18 GB FC, 20x 18 GB (striped) FC
 Other Hardware: None

Software

OpenMP Threads: 32
 Parallel: OpenMP
 Operating System: IRIX 6.5.17f
 Compiler: MIPSpro 7.3.1.3m C, Fortran90
 File System: xfs
 System State: Single-user

Notes/Tuning Information

Baseline flags (C benchmarks): -64 -mp -Ofast=ip35 -LNO:prefetch=0 -CG:ld_latency=7

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

Portability Flags:

318.galgel_m: -fixedform -extend_source

Peak flags:

310.wupwise_m: basepeak=true

312.swim_m: -64 -mp -Ofast=ip35 -LNO:fusion=2

314.mgrid_m: -64 -mp -Ofast=ip35 -LNO:fusion=2

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

318.galgel_m: -64 -mp -Ofast=ip35

320.quake_m: -64 -mp -Ofast=ip35 -CG:ld_latency=7

324.apsi_m: -64 -mp -Ofast=ip35 -LNO:prefetch=0:blocking=off -IPA:linear=on

326.gafort_m: -64 -mp -Ofast=ip35

328.fma3d_m: -64 -mp -Ofast=ip35 -bigp_off -LNO:prefetch=0 -CG:ld_latency=2 -OPT:goto=off

330.art_m: -64 -mp -Ofast=ip35 -LNO:prefetch=0 -CG:ld_latency=3

332.ammp_m: -64 -mp -Ofast=ip35 -OPT:goto=off -CG:ld_latency=7

Baseline user environment:

limit stacksize 512m

OMP_NUM_THREADS=32

OMP_DYNAMIC=FALSE

MPC_GANG=OFF

Standard Performance Evaluation Corporation

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Notes/Tuning Information (Continued)

_DSM_MUSTRUN=

Peak user environment:

316.applu_m: PAGESIZE_DATA=4096, PAGESIZE_STACK=4096, _DSM_PLACEMENT=ROUND_ROBIN

318.galgel_m: _DSM_PLACEMENT=ROUND_ROBIN

324.apsi_m: PAGESIZE_DATA=4096, PAGESIZE_STACK=4096

332.ammp_m: PAGESIZE_DATA=1024, PAGESIZE_STACK=1024, _DSM_PLACEMENT=ROUND_ROBIN

Peak sources:

SPEC OMPL2001 source for 64bit systems modified for SPEC OMPM2001.

Available as SPEC OMPM2001 Source: ompm2001-src164bit-20020807.tar.gz.

For 312.swim, 314.mgrid, 320.quake, 324.apsi, 326.gafort, 328.fma3d, and 330.art.

The following O/S parameters were set via systune:

percent_totalmem_4m_pages = 25 ; percent_totalmem_1m_pages = 25

percent_totalmem_256k_pages = 10 ; percent_totalmem_64k_pages = 10