



OMPM2001 Result

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SGI
SGI Origin300 16X 500MHz R14k

SPECompMpeak2001 = 6166

SPECompMbase2001 = 6005

SPEC license #HPG0014 | Tested by: SGI | Test site: | Test date: Dec-2001 | Hardware Avail: Jan-2002 | Software Avail: Nov-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio	3000 6000 9000		
310.wupwise_m	6000	750	8004	750	8004	[Bar chart showing performance relative to 3000, 6000, 9000]		
312.swim_m	6000	841	7137	841	7137	[Bar chart showing performance relative to 3000, 6000, 9000]		
314.mgrid_m	7300	971	7518	971	7518	[Bar chart showing performance relative to 3000, 6000, 9000]		
316.applu_m	4000	701	5705	728	5497	[Bar chart showing performance relative to 3000, 6000, 9000]		
318.galgel_m	5100	829	6155	829	6155	[Bar chart showing performance relative to 3000, 6000, 9000]		
320.earthquake_m	2600	413	6303	413	6303	[Bar chart showing performance relative to 3000, 6000, 9000]		
324.apsi_m	3400	644	5283	462	7353	[Bar chart showing performance relative to 3000, 6000, 9000]		
326.gafort_m	8700	1365	6375	1352	6435	[Bar chart showing performance relative to 3000, 6000, 9000]		
328.fma3d_m	4600	931	4940	931	4940	[Bar chart showing performance relative to 3000, 6000, 9000]		
330.art_m	6400	1080	5927	1080	5927	[Bar chart showing performance relative to 3000, 6000, 9000]		
332.ammp_m	7000	1791	3909	1814	3859	[Bar chart showing performance relative to 3000, 6000, 9000]		

Hardware

CPU: R14000
CPU MHz: 500
FPU: Integrated
CPU(s) enabled: 16
CPU(s) orderable: 2-32
Primary Cache: 32KBI + 32KBD on chip
Secondary Cache: 2MB(I+D) off chip
L3 Cache: N/A
Other Cache: N/A
Memory: 6 GB
Disk Subsystem: 1 x 9 GB SCSI, 2x 36 GB (striped) SCSI
Other Hardware: None

Software

OpenMP Threads: 16
Parallel: --
Operating System: IRIX 6.5.13m
Compiler: MIPSpro 7.3.1.3m C, Fortran90
File System: xfs
System State: Multi-user

Notes/Tuning Information

Baseline flags: -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: basepeak=true

314.mgrid_m: basepeak=true

316.applu_m: -64 -mp -Ofast=ip35 -LNO:ou_max=5:ou_prod_max=10:prefetch=0:fusion=2
-CG:ld_latency=3

318.galgel_m: basepeak = true

320.earthquake_m: basepeak=true

324.apsi_m: -64 -mp -Ofast=ip35 -LNO:fusion=2 -LNO:prefetch=0:blocking=off

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

328.fma3d_m: basepeak=true

330.art_m: basepeak=true

332.ammp_m: -64 -mp -Ofast=ip35 -LNO:fusion=2:prefetch=0

Baseline user environment:

limit stacksize 512m

OMP_NUM_THREADS=16

OMP_DYNAMIC=FALSE

MPC_GANG=OFF

Standard Performance Evaluation Corporation

info@spec.org

http://www.spec.org



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Notes/Tuning Information (Continued)

_DSM_MUSTRUN=
_DSM_WAIT=SPIN

Peak user environment:

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

324.apsi_m: PAGESIZE_DATA=4096, PAGESIZE_STACK=4096

332.ammp_m: _DSM_PLACEMENT=ROUND_ROBIN

The following O/S parameters were set via systune:

percent_totalmem_4m_pages = 45 ; percent_totalmem_1m_pages = 5

percent_totalmem_256k_pages = 5 ; percent_totalmem_64k_pages = 5