



# OMPM2001 Result

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**SGI**  
**SGI Origin300 32X 500MHz R14k**

**SPECompMpeak2001 = 10557**

**SPECompMbase2001 = 10020**

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	
310.wupwise_m	6000	393	15277	393	15277	
312.swim_m	6000	446	13444	446	13444	
314.mgrid_m	7300	522	13994	522	13994	
316.applu_m	4000	339	11808	265	15074	
318.galgel_m	5100	704	7245	704	7245	
320.quake_m	2600	277	9380	277	9380	
324.apsi_m	3400	365	9315	255	13323	
326.gafort_m	8700	843	10317	840	10355	
328.fma3d_m	4600	653	7040	653	7040	
330.art_m	6400	592	10809	592	10809	
332.ammp_m	7000	1155	6059	1192	5874	

### Hardware

CPU: R14000  
 CPU MHz: 500  
 FPU: Integrated  
 CPU(s) enabled: 32  
 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: 12 GB  
 Disk Subsystem: 1 x 9 GB SCSI, 2x 36 GB (striped) SCSI  
 Other Hardware: None

### Software

OpenMP Threads: 32  
 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.quake\_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=32

OMP\_DYNAMIC=FALSE

MPC\_GANG=OFF

Standard Performance Evaluation Corporation

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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