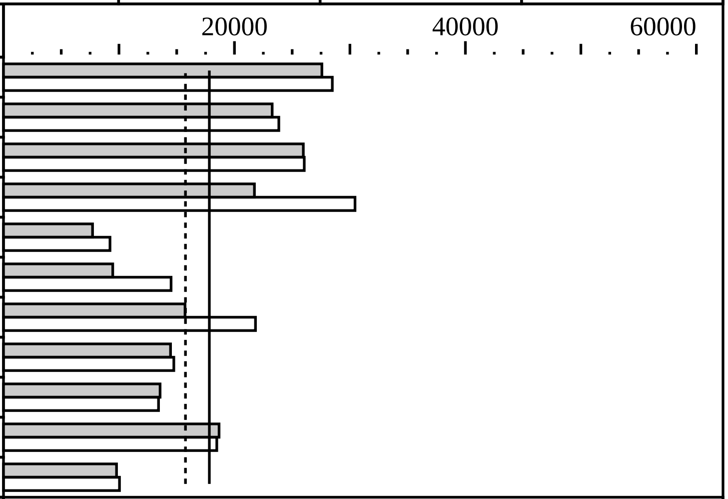
OMPM2001 Result

SGI
SGI Origin 3800 64X 500MHz R14k

SPECompMpeak2001 = 17826
SPECompMbase2001 = 15758

SPEC license #	Tested by:	Test site:	Test date:	Hardware Avail	Software Avail
HPG0014	SGI		Jun-2001	Jun-2001	Mar-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	218	27572	211	28475
312.swim_m	6000	258	23268	252	23843
314.mgrid_m	7300	281	25964	280	26046
316.applu_m	4000	184	21730	131	30440
318.galgel_m	5100	661	7712	553	9222
320.equake_m	2600	275	9461	179	14512
324.apsi_m	3400	216	15720	156	21821
326.gafort_m	8700	601	14465	590	14750
328.fma3d_m	4600	339	13560	343	13425
330.art_m	6400	343	18667	346	18471
332.ammp_m	7000	715	9789	697	10045



Hardware

CPU:	R14000
CPU MHz:	500
FPU:	Integrated
CPU(s) enabled:	64
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:	64 GB
Disk Subsystem:	1 x 18 GB FC, 4x 36 GB (striped) FC
Other Hardware:	None

Software

OpenMP Threads:	64
Parallel:	--
Operating System:	IRIX 6.5.12m
Compiler:	MIPSpro 7.3.1.2m 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: -64 -mp -Ofast=ip27 -LNO:fusion=2:prefetch_ahead=5 -INLINE:aggressive=on
.             -IPA:space=1000:linear=on:plimit=10000:callee_limit=5000 -OPT:Olimit=0
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:ou_max=5:ou_prod_max=10:prefetch=0:fusion=2
.             -CG:ld_latency=3
318.galgel_m: -64 -mp -Ofast=ip35 -LNO:fusion=2
320.equake_m: -64 -mp -Ofast=ip35 -OPT:goto=off:unroll_size=160:unroll_times_max=4
.              -CG:ld_latency=3
324.apsi_m: -64 -mp -Ofast=ip35 -LNO:fusion=2 -TENV:X=4 -LNO:prefetch=0:blocking=off
326.gafort_m: -64 -mp -Ofast=ip35
328.fma3d_m: -64 -mp -Ofast=ip35 -LNO:fusion=2 -CG:ld_latency=3
.             -IPA:linear=on:use_intrinsic
330.art_m: -64 -mp -Ofast=ip35 -LNO:fusion=2
332.ammp_m: -64 -mp -Ofast=ip35 -LNO:fusion=2:prefetch=0

Baseline user environment:
   limit stacksize 512m
```

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SPEC license #: HPG0014	Tested by: SGI	Test site:	Test date: Jun-2001	Hardware Avail: Jun-2001	Software Avail: Mar-2001

Notes/Tuning Information (Continued)

```
      OMP_NUM_THREADS=64
      OMP_DYNAMIC=FALSE
      MPC_GANG=OFF
      _DSM_MUSTRUN=
      _DSM_WAIT=SPIN

   Peak user environment:
   316.applu_m: PAGESIZE_DATA=4096, PAGESIZE_STACK=4096, _DSM_PLACEMENT=ROUND_ROBIN
   318.galgel_m: _DSM_PLACEMENT=ROUND_ROBIN, OMP_NUM_THREADS=40
   320.equake_m: OMP_NUM_THREADS=48
   324.apsi_m: PAGESIZE_DATA=4096, PAGESIZE_STACK=4096
   332.ammp_m: PAGESIZE_DATA=1024, PAGESIZE_STACK=1024, _DSM_PLACEMENT=ROUND_ROBIN

   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
```