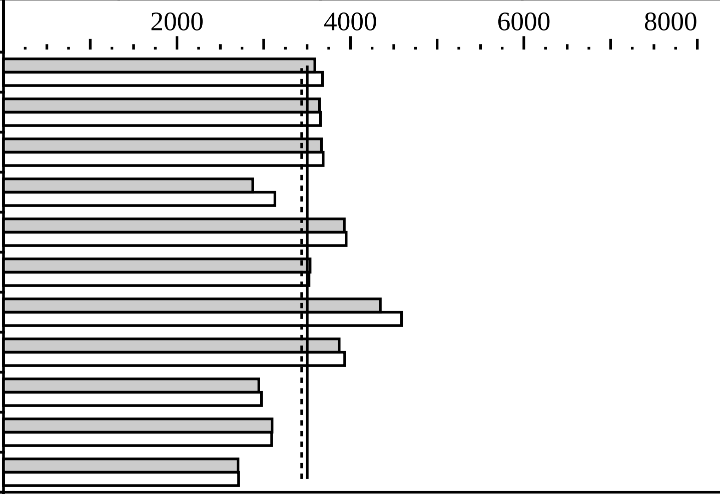
OMPM2001 Result

SGI
SGI Origin300 8X 500MHz R14k

SPECompMpeak2001 = 3502
SPECompMbase2001 = 3438

SPEC license #: HPG0014	Tested by: SGI	Test site:	Test date: Oct-2001	Hardware Avail: Jan-2002	Software Avail: Sep-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	1671	3590	1631	3679
312.swim_m	6000	1646	3644	1642	3655
314.mgrid_m	7300	1991	3666	1981	3686
316.applu_m	4000	1392	2874	1278	3129
318.galgel_m	5100	1298	3930	1291	3951
320.equake_m	2600	735	3535	738	3523
324.apsi_m	3400	783	4345	741	4590
326.gafort_m	8700	2248	3870	2212	3934
328.fma3d_m	4600	1562	2944	1546	2975
330.art_m	6400	2067	3097	2070	3092
332.ammp_m	7000	2589	2704	2582	2711



Hardware

CPU:	R14000
CPU MHz:	500
FPU:	Integrated
CPU(s) enabled:	8
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:	8 GB
Disk Subsystem:	1 x 18 GB FC, 4x 36 GB (striped) FC
Other Hardware:	None

Software

OpenMP Threads:	8
Parallel:	--
Operating System:	IRIX 6.5.13m
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 -LNO:fusion=2
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
   OMP_NUM_THREADS=8
```

Notes/Tuning Information (Continued)

```
      OMP_DYNAMIC=FALSE
      MPC_GANG=OFF
      _DSM_WAIT=SPIN
      PAGESIZE_DATA 4096
      PAGESIZE_STACK 4096

   Peak user environment:
   316.applu_m: _DSM_PLACEMENT=ROUND_ROBIN
   332.ammp_m: _DSM_PLACEMENT=ROUND_ROBIN

   The following O/S parameters were set via systune:
      percent_totalmem_4m_pages = 70 ; percent_totalmem_1m_pages = 7
      percent_totalmem_256k_pages = 7 ; percent_totalmem_64k_pages = 6
```