OMPM2001 Result

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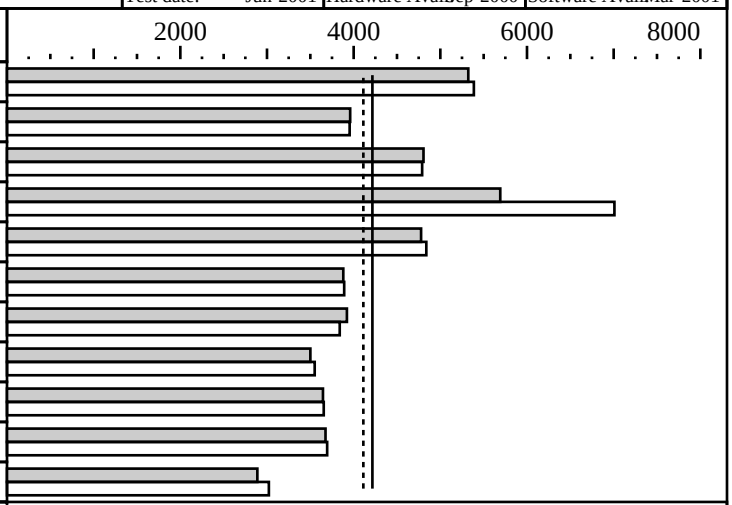
SGI
SGI 2800 16X 400MHz R12k

SPECompMpeak2001 = 4216
SPECompMbase2001 = 4112

SPEC license #HPG0014 | Tested by: SGI | Test site: | Test date: Jun-2001 | Hardware Avail: Sep-2000 | Software Avail: Mar-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	1127	5323	1114	5387
312.swim_m	6000	1515	3960	1518	3954
314.mgrid_m	7300	1519	4806	1524	4790
316.applu_m	4000	703	5691	571	7009
318.galgel_m	5100	1067	4778	1054	4838
320.equake_m	2600	670	3880	668	3891
324.apsi_m	3400	867	3922	886	3839
326.gafort_m	8700	2485	3500	2451	3550
328.fma3d_m	4600	1262	3646	1259	3655
330.art_m	6400	1741	3675	1732	3694
332.ammp_m	7000	2423	2889	2317	3022



Hardware

CPU:	R12000
CPU MHz:	400
FPU:	Integrated
CPU(s) enabled:	16
CPU(s) orderable:	2-256
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	16 GB
Disk Subsystem:	1x 18 GB SCSI, 8x 36 GB (striped) SCSI
Other Hardware:	None

Software

OpenMP Threads:	16
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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Notes/Tuning Information (Continued)

```
    OMP_NUM_THREADS=16
    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
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
```