OMPM2001 Result

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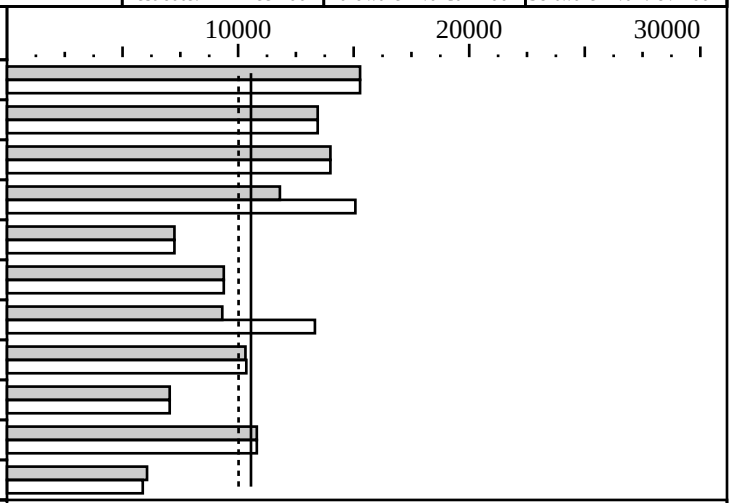
SGI
SGI Origin300 32X 500MHz R14k

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.equake_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.equake_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
```

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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
```