OMPL2001 Result

SGI

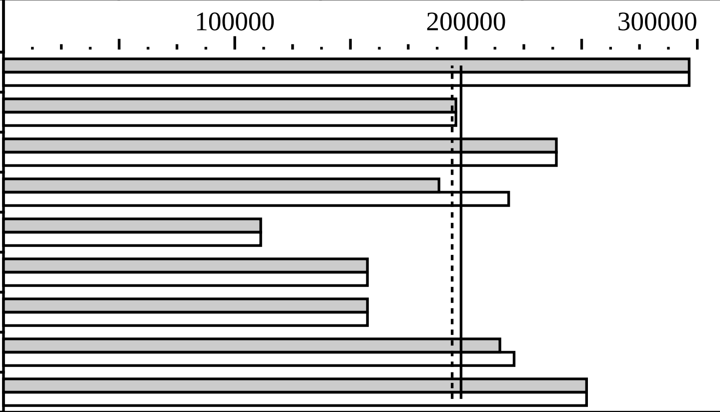
SGI Origin 3900 128X 600MHz R14000A

SPECompLpeak2001 = 197838

SPECompLbase2001 = 193992

SPEC license #:	HPG0014	Tested by:	SGI	Test site:	SGI	Test date:	Nov-2002	Hardware Avail:	Dec-2002	Software Avail:	Dec-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
311.wupwise_l	9200	497	296470	497	296470
313.swim_l	12500	1022	195626	1022	195626
315.mgrid_l	13500	904	239055	904	239055
317.applu_l	13500	1147	188297	989	218439
321.equake_l	13000	1870	111228	1870	111228
325.apsi_l	10500	1068	157350	1068	157350
327.gafort_l	11000	1118	157373	1118	157373
329.fma3d_l	23500	1752	214635	1703	220773
331.art_l	25000	1587	252116	1587	252116



Hardware

CPU:	R14000
CPU MHz:	600
FPU:	Integrated
CPU(s) enabled:	128
CPU(s) orderable:	2-1024
Primary Cache:	32KBI + 32KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	N/A
Other Cache:	N/A
Memory:	128 GB
Disk Subsystem:	1 x 18 GB FC, 20x 18 GB (striped) FC
Other Hardware:	None

Software

OpenMP Threads:	128
Parallel:	OpenMP
Operating System:	IRIX 6.5.18f
Compiler:	MIPSpro 7.4 C, Fortran90
File System:	xfs
System State:	Single-user

Notes/Tuning Information

```
Baseline flags (C benchmarks): -64 -mp -Ofast=ip35
Baseline flags (Fortran benchmarks): -64 -mp -Ofast=ip35 -LNO:fusion=2

Peak flags:
311.wupwise_l: basepeak=true
313.swim_l: basepeak = true
315.mgrid_l: basepeak=true
317.applu_l: -64 -mp -Ofast=ip35 -LNO:prefetch=0:fusion=2 -CG:ld_latency=3
321.equake_l: basepeak = true
325.apsi_l: basepeak = true
327.gafort_l: basepeak=true
329.fma3d_l: -64 -mp -Ofast=ip35 -bigp_off -LNO:prefetch=0 -CG:ld_latency=2 -OPT:goto=off
331.art_l: basepeak = true

Baseline user environment:
   limit stacksize 512m
   OMP_NUM_THREADS=128
   OMP_DYNAMIC=FALSE
   MPC_GANG=OFF
   _DSM_MUSTRUN=

Peak user environment:
317.applu_l: PAGESIZE_DATA=4096, PAGESIZE_STACK=4096, _DSM_PLACEMENT=ROUND_ROBIN

The following O/S parameters were set via systune:
   percent_totalmem_4m_pages = 25 ; percent_totalmem_1m_pages = 25
```

Notes/Tuning Information (Continued)

```
percent_totalmem_256k_pages = 10 ; percent_totalmem_64k_pages = 10
```