OMPM2001 Result

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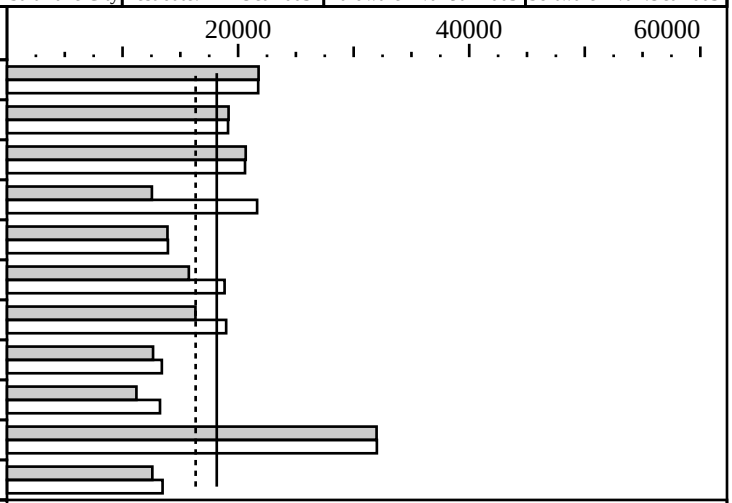
Unisys Corporation
ES7000/420

SPECompMpeak2001 = 18152

SPECompMbase2001 = 16325

SPEC license #HPG0016 | Tested by: Unisys Corporation | Test site: Salt Lake City | Test date: Oct-2003 | Hardware Avail: Jul-2003 | Software Avail: Oct-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Peak Runtime	Peak Ratio
310.wupwise_m	6000	276	21773	276	21738
312.swim_m	6000	313	19175	314	19129
314.mgrid_m	7300	353	20658	354	20598
316.applu_m	4000	319	12539	185	21645
318.galgel_m	5100	367	13887	366	13926
320.equake_m	2600	165	15736	138	18830
324.apsi_m	3400	208	16310	179	18966
326.gafort_m	8700	688	12640	649	13400
328.fma3d_m	4600	411	11200	347	13240
330.art_m	6400	200	31983	200	32007
332.ammp_m	7000	557	12578	520	13463



Hardware

CPU:	Itanium 2 processor
CPU MHz:	1500
FPU:	Integrated
CPU(s) enabled:	16
CPU(s) orderable:	4,8,12,16
Primary Cache:	16KBI+16KBD on chip
Secondary Cache:	256KB(I+D) on chip
L3 Cache:	6MB(I+D) on chip
Other Cache:	None
Memory:	64GB (blocked)
Disk Subsystem:	2x36GB SCSI disk (mirrored) (15k rpm)
Other Hardware:	

Software

OpenMP Threads:	16
Parallel:	OpenMP
Operating System:	SuSE LINUX Enterprise Server 8 for Intel Itanium Processor Family SP3
Compiler:	Intel C/C++ Compiler 7.1 for Linux build 20030729 Intel Fortran Compiler 7.1 for Linux build 20030729
File System:	ReiserFS/xfs
System State:	Runlevel 3 (multiuser+network)

Notes/Tuning Information

```
Base tuning:
C programs:       -O3 -ipo -openmp -ansi_alias
Fortran programs: -O3 -ipo -openmp -stack_temps

Peak tuning:
default:  -ipo -O3 -openmp -stack_temps
310.wupwise_m: -ipo -O3 -openmp
312.swim_m: -O3 -openmp
314.mgrid_m: -O3 -openmp
316.applu_m: -ipo -openmp
318.galgel_m: default
320.equake_m: -ipo -O3 -openmp -ansi_alias
324.apsi_m: -O3 -openmp -stack_temps
326.gafort_m: -ipo -openmp
328.fma3d_m: -O3 -openmp -stack_temps -static
330.art_m: -ipo -O3 -openmp -ansi_alias
332.ammp_m: -openmp -ansi_alias

Portability:
318.galgel_m: -FI -132

User environment:
```

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Notes/Tuning Information (Continued)

```
OMP_NUM_THREADS=16
ulimit -s 2000000
KMP_STACKSIZE=250000000
KMP_LIBRARY=TURNAROUND

Alternate sources for peak:
SPEC OMPL2001 (srcalt=ompl) 64-bit source modified for OMPM2001.
Used for 320.equake_m, 324.apsi_m, 328.fma3d_m.

Notes:
SP3 to kernel 2.4.21
ReiserFS is the root partition and xfs partition is for the benchmark.
```