



# 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.earthquake_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/xfst  
 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.earthquake\_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.
```