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uBench: Performance Impact of CUDA Block Geometry

(2nd edition)

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Abstract Nowadays, there is a lack of performance models for the execution of programs implemented using the CUDA model for GPU (Graphics Processing Units) devices. We have designed and implemented a suite of micro-benchmarks, called uBench. The purpose of uBench is to identify the effects on performance derived from the combination of: (1) the hardware details of each GPU device, and (2) the configuration of the thread-block, an important runtime configuration parameter in the CUDA programming model.

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1 Introduction

The use of programming models such as CUDA [KH10] (introduced by NVIDIA), has allowed important advances in GP-GPU [OLG⁺07] (General Purpose Programming for GPUs). However, there is a lack of performance models (see [TGEL11]) that give the programmer clear hints on the performance obtained when using the CUDA programming model for GPU (Graphics Processing Units) devices. The amount of optimization techniques [RRB⁺08], and the impact of the hardware details of the target device generates a wide search space.

The CUDA programming model imposes the programmer a choice for the configuration of the groups of thread-blocks that are scheduled together to the multiprocessors inside the GPU device. The programmer selects the geometry of the thread-block in terms of size (number of threads per block), and shape (threads are grouped or organized in lattices of one to three dimensions). The authors in [TGEL12], show that the best choice for the thread-block parameter is highly influenced by the pattern used by the threads to access the device memory, and by several hardware details that change for different GPU architecture releases.

We have designed uBench, a suite of micro-benchmarks to help to identify policies to select a good thread-block value for different combinations of hardware and application classes. The uBench suite of micro-benchmarks is available from the authors under request. The uBench has been run in examples of two different NVIDIA-GPU architectures, collecting performance results for a significant sample of the thread-block parameter space. Besides, we have included a real-life benchmark, based on two versions of the Cannon's algorithm for matrix multiplication [Can69]. This extra benchmark helps to relate the potential conclusions obtained by the execution of uBench in a real life scenario. The first implementation is a direct translation of the original algorithm to CUDA. The second one is modified with an optimization technique that displaces the blocks to realign them in different global memory banks. Codes of the uBench, and the Cannon's implementations are available under request.

The appendix of this technical report includes 306 tables collecting the execution time results obtained when running the previously discussed benchmarks with different hardware and thread-block parameter configurations.

2 Experimental environment

The experiments have been run on a GeForce GTX 480 (Fermi [NVI10]) and a GeForce GTX 680 (Kepler [NVI12]) NVidia GPU devices. The host machine is an Intel(R) Core(TM) i7 CPU 960 3.20GHz, 64 bits compatible, with a global memory of 6 GB DDR3. It runs an UBUNTU desktop 10.10 (64 bits) operative system. The uBenchs have been developed using CUDA 4.2 toolkit and the 295.41 64-bit driver.

We have used 2-dimensional thread-block geometries, that include the one-dimensional geometries as a particular case. These architectures impose limits

on the possible thread-block sizes that can be chosen. For example, the number of threads can not exceed 1024 on Kepler architectures. The product of the cardinality of each dimension cannot exceed this number. We have selected values for each dimensional cardinality including all possible values that are power of 2, power of 3, or a product of such values. The power of 3 values are significant due to a relation of the thread-block with architecture details, such as the maximum number of active threads in a Fermi SM, or the number of memory banks in the device, that is 6 in one of the devices used for the experimentation. Thus, each dimension has the following cardinalities (number of threads per dimension): 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 64, 96, 128, 192, 256, 384, 512, 768, and 1024.

For each experiment, several tests are also needed to check the run-time effect of different device cache configurations that can be selected by the programmer before the launching of the benchmark.

Each benchmarks is tested with three different matrix sizes (96×96 , 192×192 , 6144×6144). In order to generate significant running times, for those micro-benchmarks with a very low computational load we substitute the 6144×6144 matrix size by 18432×18432 .

3 Results

The tables included in the appendix represent one thread-block dimensional cardinality on each axis. Most of the tables represent the performance results in milliseconds. Tables with numbers of magnitude bigger than 10^3 milliseconds are represented with performance in seconds. These cases are always indicated in the table caption.

In the tables, we have marked with gray background the cells corresponding to thread-block configurations that theoretically maximizes the occupancy of the device, a common optimization technique in CUDA. For easy identification of the thread-block configurations that derive on very good performance, we have also marked with blue font color the numbers that are less than 5% of the best performance obtained for any thread-block configuration in the table. For easy black&white printing these values are also embraced by brackets. The optimum value of each table is embraced with square brackets and is also marked with the symbol "*".

Each table is accompanied by a graphical diagram for quick visual identification of the more relevant results. The diagram is a table with the same rows, columns, and grey-shaded cells, where numbers have been replaced with symbols: ■ for best performance results; ● for execution times up to 5% more than the optimum; ○ for execution times up to 25% more than the optimum. Cells with execution times higher than 25% more than the optimum contain a simple dot.

The appendix has two sections. The first one shows the tables with the execution results of micro-benchmarks. The second one shows the tables for the two implementations of the Cannon's algorithm for matrix multiplication. Each section contains subsections for the same experiments carried out with the Fermi

and Kepler devices. A list of tables, with hyperlinks in the electronic version, is included for quick reference.

4 Conclusion

In this technical report we present the performance numerical results obtained by executing the uBench benchmark, and two CUDA implementations of the Cannon’s algorithm for matrix multiplication, in two different GPU architectures. The results include a wide sample of the search space for the thread-block parameter.

The results presented in this technical report may be used to extrapolate conclusions about the relation between the thread-block configuration parameter, some hardware details of a GPU device, and the performance obtained by different classes of applications.

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A Micro-benchmarks results

A.1 Experiments with Fermi architecture

Tables from 1 to 135 correspond to the uBench micro-benchmarks executed in the Fermi GPU.

A.2 Experiments with Kepler architecture

Tables from 136 to 270 correspond to the uBench micro-benchmarks executed in the Kepler GPU.

B Cannon's algorithm for matrix multiplication

B.1 Experiments with Fermi architecture

Cannon: First implementation Tables from 271 to 279 correspond to the basic implementation of the Cannon's algorithm for matrix multiplication, executed in the Fermi GPU.

Cannon: Second implementation Tables from 280 to 288 correspond to the second implementation of the Cannon's algorithm for matrix multiplication, executed in the Fermi GPU.

B.2 Experiments with Kepler architecture

Cannon: First implementation Tables from 289 to 297 correspond to the basic implementation of the Cannon's algorithm for matrix multiplication, executed in the Kepler GPU.

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279	Cannon Fermi: Without L1, size 6144×6144, seconds.	290
280	CannonModified Fermi: Normal L1, size 96×96, seconds.	291
281	CannonModified Fermi: Normal L1, size 192×192, seconds.	292
282	CannonModified Fermi: Normal L1, size 6144×6144, seconds.	293
283	CannonModified Fermi: Increased L1, size 96×96, seconds.	294
284	CannonModified Fermi: Increased L1, size 192×192, seconds.	295
285	CannonModified Fermi: Increased L1, size 6144×6144, seconds.	296
286	CannonModified Fermi: Without L1, size 96×96, seconds.	297
287	CannonModified Fermi: Without L1, size 192×192, seconds.	298
288	CannonModified Fermi: Without L1, size 6144×6144, seconds.	299
289	Cannon Kepler: Normal L1, size 96×96, milliseconds.	300
290	Cannon Kepler: Normal L1, size 192×192, milliseconds.	301
291	Cannon Kepler: Normal L1, size 6144×6144, seconds.	302
292	Cannon Kepler: Increased L1, size 96×96, milliseconds.	303
293	Cannon Kepler: Increased L1, size 192×192, milliseconds.	304
294	Cannon Kepler: Increased L1, size 6144×6144, seconds.	305
295	Cannon Kepler: Without L1, size 96×96, milliseconds.	306
296	Cannon Kepler: Without L1, size 192×192, milliseconds.	307
297	Cannon Kepler: Without L1, size 6144×6144, seconds.	308
298	CannonModified Kepler: Normal L1, size 96×96, seconds.	309
299	CannonModified Kepler: Normal L1, size 192×192, seconds.	310
300	CannonModified Kepler: Normal L1, size 6144×6144, seconds.	311
301	CannonModified Kepler: Increased L1, size 96×96, seconds.	312
302	CannonModified Kepler: Increased L1, size 192×192, seconds.	313
303	CannonModified Kepler: Increased L1, size 6144×6144, seconds.	314
304	CannonModified Kepler: Without L1, size 96×96, seconds.	315
305	CannonModified Kepler: Without L1, size 192×192, seconds.	316
306	CannonModified Kepler: Without L1, size 6144×6144, seconds.	317

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0477	0.0341	0.0293	0.0278	0.0256	0.0243	0.0235	0.0224	0.0214	0.0219	0.0213	(0.0193)	(0.0197)	0.0544	0.0535	0.0578	0.0541	0.0529	0.0548	0.0535
2	0.0339	0.0293	0.0257	0.0234	0.0235	0.0226	0.0219	0.0213	0.0216	0.0214	0.0214	0.0205	0.0208	0.0528	0.0537	0.0539	0.0534			
3	0.0300	0.0267	0.0243	0.0232	0.0219	0.0225	0.0217	0.0210	0.0210	0.0210	0.0205	0.0202	0.0204	0.0549	0.0529	0.0540				
4	0.0276	0.0248	0.0228	0.0229	0.0222	0.0216	0.0212	0.0204	0.0220	0.0204	0.0204	0.0208	0.0210	0.0509	0.0535	0.0540				
6	0.0261	0.0226	0.0226	0.0221	0.0219	0.0236	0.0213	0.0212	0.0206	0.0206	0.0211	0.0208	0.0208	0.0209	0.0529					
8	0.0245	0.0226	0.0217	0.0220	0.0224	0.0212	0.0212	0.0208	0.0256	(0.0197)	0.0212	0.0219	0.0248	0.0209						
12	0.0235	0.0219	0.0210	0.0217	0.0222	0.0204	0.0204	0.0205	0.0205	(0.0197)	0.0212	0.0208								
16	0.0230	0.0227	0.0223	0.0215	0.0207	0.0207	0.0206	0.0201	0.0205	0.0210	0.0205	0.0208								
24	0.0224	0.0207	0.0210	0.0203	0.0207	0.0207	0.0205	0.0213	0.0203	0.0202	0.0202	0.0203								
32	0.0218	0.0225	(0.0198)	0.0205	0.0205	0.0202	0.0202	0.0202	[0.0190]*	0.0212										
48	0.0213	0.0207	0.0206	0.0203	0.0203	0.0203	0.0210	0.0205												
64	0.0207	0.0206	0.0209	0.0211	0.0207	0.0201	0.0207	0.0211												
96	0.0207	0.0206	0.0209	(0.0193)	0.0201	0.0201														
128	0.0540	0.0581	0.0581	(0.0193)	0.0543	0.0581	0.0538													
192	0.0536	0.0551	0.0581	0.0543	0.0581															
256	0.0537	0.0532	0.0532	0.0545																
384	0.0541	0.0537	0.0537	0.0537																
512	0.0531	0.0538																		
768	0.0530																			
1024	0.0544																			

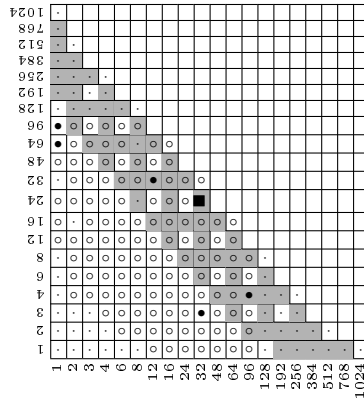


Table 1. MB0 Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1119	0.0594	0.0419	0.0331	0.0243	0.0199	0.0155	0.0134	0.0112	0.0100	0.0090	0.0084	0.0079	(0.0073)	(0.0073)	0.0350	0.0365	0.0353	0.0423	0.0383
2	0.0594	0.0331	0.0243	0.0199	0.0156	0.0133	0.0112	0.0101	0.0090	0.0084	0.0078	0.0076	(0.0072)	(0.0071)	(0.0072)	0.0354	0.0359	0.0364		
3	0.0418	0.0243	0.0184	0.0156	0.0126	0.0111	0.0097	0.0090	0.0082	0.0079	0.0075	(0.0073)	(0.0072)	(0.0071)	(0.0072)	0.0348				
4	0.0330	0.0199	0.0155	0.0133	0.0111	0.0101	0.0089	0.0084	0.0078	0.0075	(0.0072)	(0.0071)	(0.0071)	(0.0070)*						
6	0.0244	0.0156	0.0126	0.0111	0.0096	0.0090	0.0082	0.0079	(0.0074)	(0.0072)	(0.0072)	(0.0071)	(0.0071)	(0.0070)*						
8	0.0199	0.0132	0.0111	0.0101	0.0090	0.0086	0.0079	0.0075	(0.0072)	(0.0072)	(0.0072)	(0.0071)	(0.0071)	(0.0070)*						
12	0.0156	0.0111	0.0097	0.0089	0.0082	0.0079	0.0075	(0.0073)	(0.0072)	(0.0072)	(0.0072)	(0.0071)	(0.0071)	(0.0070)*						
16	0.0133	0.0100	0.0090	0.0084	0.0079	0.0075	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0071)	(0.0071)	(0.0070)*							
24	0.0111	0.0084	0.0079	0.0076	0.0074	0.0074	(0.0072)	(0.0072)	(0.0072)	(0.0071)	(0.0071)	(0.0070)*								
32	0.0100	0.0084	0.0079	0.0076	0.0074	0.0074	(0.0072)	(0.0072)	(0.0072)	(0.0071)	(0.0071)	(0.0070)*								
48	0.0092	0.0079	(0.0074)	(0.0074)	(0.0071)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0071)	(0.0071)	(0.0070)*								
64	0.0084	0.0075	(0.0073)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0071)	(0.0071)	(0.0070)*								
96	0.0079	0.0074	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0070)*									
128	(0.0073)	(0.0072)	(0.0073)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0070)*									
192	(0.0071)	(0.0072)	(0.0073)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0070)*									
256	0.0361	0.0351	0.0351	0.0356																
384	0.0412	0.0356																		
512	0.0352	0.0355																		
768	0.0351																			
1024	0.0359																			

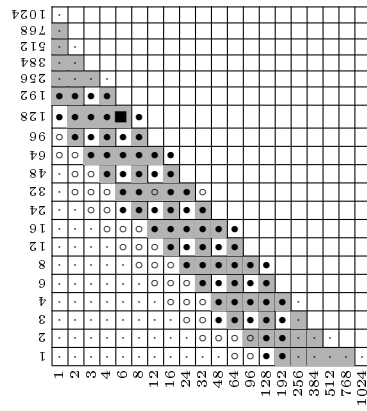


Table 2. MB0 Fermi: Normal L1, size 192×192, milliseconds.

1	969.357	484.682	323.124	242.345	161.566	121.176	80.786	60.592	40.397	30.299	20.202	15.153	10.105	7.580	5.056	3.794	2.566	1.024
2	484.682	242.345	161.566	121.176	80.786	60.592	40.397	30.299	20.202	15.153	10.105	7.580	5.056	3.794	(3.436)	3.745	3.911	6.590
3	323.124	161.566	107.718	80.786	60.592	40.397	26.934	20.202	13.470	10.105	6.739	5.056	3.794	(3.436)	3.794	3.911	6.590	1.024
4	242.345	121.176	80.786	60.592	40.397	26.934	20.202	13.470	10.105	6.739	5.056	3.794	(3.436)	3.794	3.911	6.590	1.024	1.024
6	161.566	80.786	53.860	40.397	26.934	20.202	13.470	10.105	6.739	5.056	3.794	(3.436)	3.794	3.911	6.590	1.024	1.024	1.024
8	121.176	60.592	40.397	30.299	20.202	15.153	10.105	6.739	5.056	3.794	(3.436)	3.794	3.911	6.590	1.024	1.024	1.024	1.024
12	80.786	40.397	26.934	20.202	15.153	10.105	6.739	5.056	3.794	(3.436)	3.794	3.911	6.590	1.024	1.024	1.024	1.024	1.024
16	60.592	30.299	20.202	15.153	10.105	6.739	5.056	3.794	(3.436)	3.794	3.911	6.590	1.024	1.024	1.024	1.024	1.024	1.024
24	40.397	20.202	13.470	10.105	6.739	5.056	3.794	(3.436)	3.794	3.911	6.590	1.024	1.024	1.024	1.024	1.024	1.024	1.024
32	30.299	15.153	10.105	6.739	5.056	3.794	(3.436)	3.794	3.911	6.590	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
48	20.202	10.105	6.739	5.056	3.794	(3.436)	3.794	3.911	6.590	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
64	15.153	7.580	5.056	3.794	(3.436)	3.794	3.911	6.590	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
96	10.105	5.056	3.794	(3.436)	3.794	3.911	6.590	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
128	7.580	3.794	(3.436)	3.794	3.911	6.590	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
192	5.056	(3.436)	3.794	3.911	6.590	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
256	3.794	3.766	3.985	6.590	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
384	(3.436)	3.981	3.985	6.590	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024	1.024
512	3.744	6.623																
768	3.929																	
1024	6.622																	

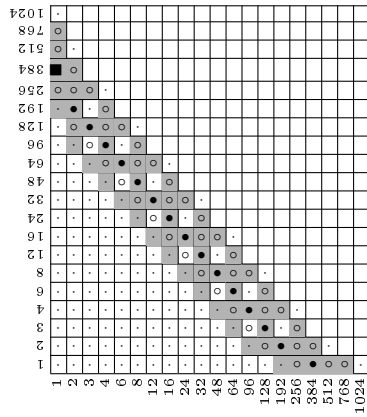


Table 3. MB0 Fermi: Normal L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0472	0.0457	0.0297	0.0276	0.0252	0.0251	0.0232	0.0225	0.0222	0.0217	0.0216	0.0220	0.0205	0.0335	0.0544	0.0535	0.0652	0.0538	0.0541	0.0795
2	0.0341	0.0278	0.0254	0.0248	0.0231	0.0232	0.0221	0.0223	0.0222	0.0318	0.0209	0.0209	0.0203	0.0336	0.0544	0.0535	0.0652	0.0538	0.0541	
3	0.0305	0.0258	0.0239	0.0236	0.0228	0.0225	0.0218	0.0216	0.0224	0.0327	0.0206	0.0202	0.0203	0.0349	0.0542	0.0541	0.0652	0.0539		
4	0.0282	0.0248	0.0240	0.0229	0.0222	0.0220	0.0219	0.0216	0.0212	0.0207	0.0212	0.0207	0.0203	0.0343	0.0543	0.0543				
6	0.0255	0.0231	0.0222	0.0217	0.0221	0.0222	0.0214	0.0213	0.0205	0.0207	0.0203	0.0209	0.0203	0.0343	0.0543	0.0543				
8	0.0244	0.0228	0.0225	0.0224	0.0217	0.0220	0.0209	0.0207	0.0205	0.0207	0.0203	0.0210	0.0203	0.0318						
12	0.0244	0.0229	0.0218	0.0210	0.0216	0.0209	0.0211	0.0207	0.0205	0.0207	0.0203	0.0210	0.0203							
16	0.0225	0.0211	0.0217	0.0206	0.0213	0.0209	0.0211	0.0209	0.0205	0.0207	0.0203	0.0210	0.0203							
24	0.0224	0.0220	0.0216	0.0215	0.0213	0.0209	0.0204	0.0209	0.0205	0.0207	0.0203	0.0210	0.0203							
32	0.0222	0.0211	0.0204	0.0204	0.0205	0.0207	0.0204	0.0203	0.0203	0.0207	0.0203	0.0210	0.0203							
48	0.0206	0.0204	0.0206	0.0209	0.0214	0.0207	0.0211	0.0204	0.0203	0.0207	0.0203	0.0210	0.0203							
64	0.0210	0.0204	0.0206	0.0214	0.0214	0.0207	0.0211	0.0204	0.0203	0.0207	0.0203	0.0210	0.0203							
96	0.0210	0.0204	0.0206	0.0214	0.0214	0.0207	0.0211	0.0204	0.0203	0.0207	0.0203	0.0210	0.0203							
128	0.0544	0.0544	0.0544	0.0546	0.0541	0.0534														
192	0.0548	0.0544	0.0544	0.0546	0.0541	0.0534														
256	0.0540	0.0546	0.0536	0.0546	0.0541	0.0534														
384	0.0540	0.0546	0.0536	0.0546	0.0541	0.0534														
512	0.0536	0.0540																		
768	0.0531																			
1024	0.0540																			

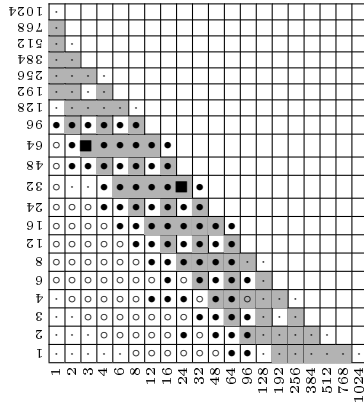


Table 4. MB0 Fermi: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1125	0.0598	0.0423	0.0336	0.0248	0.0203	0.0160	0.0138	0.0116	0.0106	0.0094	0.0089	0.0084	(0.0077)	(0.0078)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	(0.0077)
2	0.0599	0.0335	0.0248	0.0204	0.0160	0.0139	0.0116	0.0106	0.0094	0.0089	0.0084	0.0081	0.0079	(0.0077)	(0.0077)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	(0.0077)
3	0.0423	0.0248	0.0189	0.0160	0.0131	0.0117	0.0102	0.0095	0.0087	0.0083	0.0079	(0.0077)	(0.0078)	(0.0077)	(0.0077)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	(0.0077)
4	0.0335	0.0204	0.0160	0.0138	0.0116	0.0106	0.0094	0.0088	0.0084	0.0081	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	(0.0077)
6	0.0249	0.0160	0.0133	0.0116	0.0102	0.0094	0.0087	0.0084	0.0080	(0.0077)	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)
8	0.0204	0.0138	0.0116	0.0106	0.0096	0.0089	0.0083	0.0081	(0.0077)	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)
12	0.0160	0.0116	0.0101	0.0094	0.0088	0.0083	0.0080	(0.0077)	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)
16	0.0139	0.0106	0.0095	0.0088	0.0084	0.0081	(0.0077)	(0.0077)	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)
24	0.0116	0.0094	0.0083	0.0081	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)
32	0.0105	0.0083	0.0080	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)
48	0.0088	0.0081	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)
64	0.0083	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)
96	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)
128	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)
192	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)
256	0.0367	0.0372	0.0379	0.0371																
384	0.0373	0.0374																		
512	0.0374																			
768	0.0499																			
1024	0.0378																			

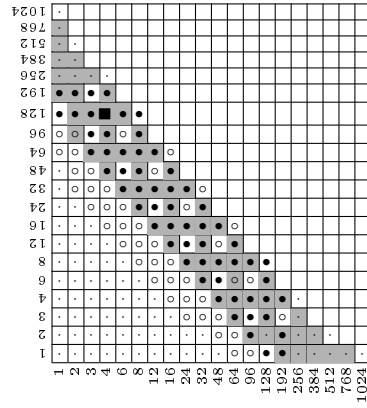


Table5. MB0 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	969.358	484.683	323.125	242.345	161.566	121.176	80.787	60.592	40.397	30.300	20.203	15.154	10.105	7.581	5.056	3.794	(3.374)	3.763	3.899	6.508
2	484.683	242.345	161.566	121.176	80.787	60.592	40.397	30.300	20.203	15.154	10.105	7.581	5.056	3.794	(3.437)	3.763	3.921	6.508		
3	323.124	161.566	107.713	80.787	53.860	40.397	28.934	20.203	13.471	10.105	6.739	5.056	3.606	(3.437)	3.731	3.920	6.539			
4	242.345	121.177	80.787	60.592	40.397	28.934	20.203	15.154	10.105	7.581	5.056	3.794	(3.374)	3.731	3.899	6.539				
6	161.566	80.787	53.861	40.397	26.934	20.203	13.471	10.105	6.739	5.056	3.794	(3.437)	3.731	3.899	6.539					
8	121.176	60.592	40.398	30.300	20.203	15.154	10.105	7.581	5.056	3.606	(3.437)	3.731	3.899	6.539						
12	80.787	40.397	26.934	20.202	13.471	10.105	6.739	5.056	3.794	(3.374)	3.763	3.899	6.539							
16	60.592	30.302	20.202	15.154	10.105	7.581	5.056	3.606	(3.374)	3.763	3.899	6.539								
24	40.397	15.154	10.105	7.581	5.056	3.794	(3.437)	3.731	3.899	6.539										
32	30.300	10.105	6.739	5.056	3.576	(3.374)	3.731	3.920	6.539											
48	20.202	10.105	6.739	5.056	3.794	(3.374)	3.731	3.920	6.539											
64	15.154	7.581	5.056	3.576	(3.374)	3.731	3.920	6.539												
96	10.105	5.056	3.576	(3.374)	3.731	3.899	6.539													
128	7.581	3.794	(3.374)	3.731	3.899	6.539														
192	5.056	(3.374)*	3.731	3.899	6.508															
256	3.794	3.731	3.899	6.508																
384	(3.763)	3.899																		
512	3.763	6.539																		
768	3.899																			
1024	6.539																			

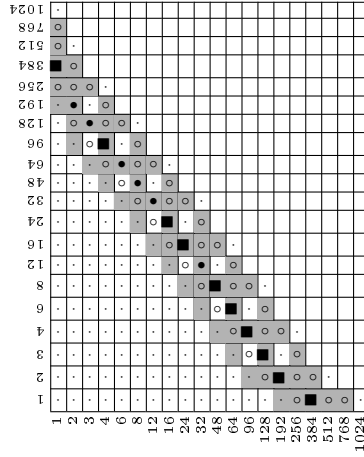


Table6. MB0 Fermi: Increased L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0460	0.0333	0.0300	0.0276	0.0263	0.0239	0.0227	0.0228	0.0219	0.0213	0.0214	(0.0202)	(0.0202)	0.0541	0.0538	0.0536	0.0532	0.0528	0.0528	0.0531
2	0.0345	0.0279	0.0244	0.0246	0.0233	0.0236	0.0218	0.0216	0.0216	0.0209	0.0204	0.0203	(0.0202)	0.0542	0.0527	0.0531	0.0530			
3	0.0296	0.0254	0.0229	0.0228	0.0230	0.0231	0.0213	0.0214	0.0221	0.0208	(0.0198)	(0.0201)	0.0206	0.0543	0.0546	0.0548				
4	0.0280	0.0241	0.0234	0.0233	0.0219	0.0213	0.0214	0.0212	0.0211	0.0203	0.0203	(0.0201)	0.0208	0.0544	0.0534	0.0536				
6	0.0252	0.0235	0.0217	0.0216	0.0213	0.0216	0.0214	(0.0202)	(0.0202)	0.0205	0.0205	(0.0198)	(0.0198)	0.0537						
8	0.0244	0.0222	0.0215	0.0224	0.0218	0.0207	0.0204	0.0208	0.0206	0.0219	(0.0202)	(0.0196)	(0.0202)	0.0537						
12	0.0232	0.0218	0.0212	0.0219	0.0213	0.0203	(0.0200)	0.0208	(0.0200)	0.0204	(0.0196)	(0.0201)								
16	0.0220	0.0214	0.0207	0.0212	0.0207	0.0203	(0.0199)	0.0205	(0.0202)	(0.0202)	0.0207									
24	0.0215	0.0208	0.0207	(0.0201)	0.0204	0.0207	(0.0200)	(0.0201)	(0.0202)	(0.0202)										
32	0.0213	0.0203	(0.0200)	0.0203	(0.0200)	0.0206	(0.0200)	0.0204	0.0206	0.0212										
48	0.0207	(0.0201)	0.0204	0.0208	0.0206	(0.0193)*	(0.0200)	0.0204												
64	0.0203	(0.0201)	(0.0200)	(0.0201)	0.0203	(0.0198)	(0.0198)	0.0209												
96	0.0203	0.0205	0.0204	0.0205	0.0208	0.0205														
128	0.0532	0.0540	0.0589	0.0530	0.0208	0.0208														
192	0.0532	0.0534	0.0534	0.0543	0.0584	0.0545														
256	0.0535	0.0537	0.0585	0.0528																
384	0.0532	0.0537																		
512	0.0539	0.0541																		
768	0.0537																			
1024	0.0534																			

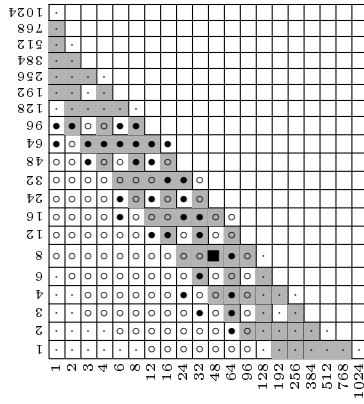


Table 7. MB0 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1119	0.0594	0.0418	0.0331	0.0243	0.0199	0.0156	0.0133	0.0111	0.0100	0.0089	0.0084	0.0079	(0.0072)	(0.0072)	0.0779	0.0847	0.0855	0.0854	0.0855
2	0.0593	0.0331	0.0243	0.0199	0.0156	0.0133	0.0111	0.0100	0.0089	0.0084	0.0078	0.0075	0.0075	(0.0072)	(0.0072)	0.0357	0.0359	0.0348		
3	0.0418	0.0243	0.0184	0.0155	0.0125	0.0111	0.0097	0.0090	0.0082	0.0078	(0.0074)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	0.0143				
4	0.0331	0.0199	0.0154	0.0133	0.0111	0.0100	0.0090	0.0085	0.0078	0.0075	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	0.0071				
6	0.0243	0.0155	0.0126	0.0111	0.0097	0.0089	0.0082	0.0079	0.0075	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	0.0071				
8	0.0199	0.0132	0.0112	0.0099	0.0090	0.0084	0.0078	0.0075	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	0.0071				
12	0.0155	0.0111	0.0096	0.0090	0.0083	0.0079	0.0075	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	0.0071				
16	0.0133	0.0100	0.0090	0.0084	0.0079	0.0075	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	0.0071				
24	0.0111	0.0084	0.0079	0.0075	0.0075	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	0.0071				
32	0.0100	0.0084	0.0079	0.0075	0.0075	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	0.0071				
48	0.0089	0.0079	(0.0074)	(0.0073)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	0.0071				
64	0.0084	0.0076	(0.0073)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	0.0071				
96	0.0079	(0.0073)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	(0.0072)	0.0071				
128	(0.0072)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	0.0071				
192	(0.0072)	(0.0071)	(0.0073)	(0.0071)*	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	(0.0071)	0.0071				
256	0.0361	0.0365	0.0354	0.0359																
384	0.0356	0.0356																		
512	0.0362	0.0351																		
768	0.0351																			
1024	0.0356																			

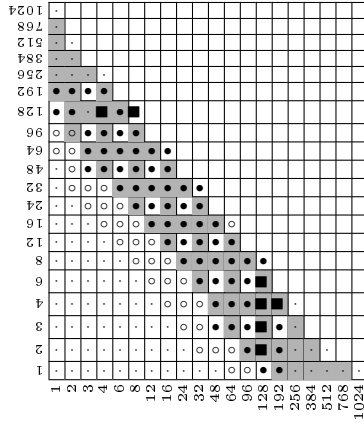


Table8. MB0 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	969.358	484.682	323.124	242.345	161.566	121.176	80.786	60.592	40.397	30.299	20.202	15.153	10.105	7.580	5.056	3.794	(3.436)	3.763	3.983	3.983	6.527
2	484.682	242.345	161.566	121.176	80.786	60.592	40.397	30.299	20.202	15.153	10.105	7.580	5.056	3.794	(3.436)	3.763	3.983	3.983	6.527		
3	323.124	161.566	107.718	80.786	53.860	40.397	26.934	20.202	13.470	10.105	6.739	5.056	3.501	(3.446)	3.766	3.912	3.999				
4	242.345	121.176	80.786	53.860	40.397	26.934	20.202	13.470	10.105	6.739	5.056	3.794	(3.436)	3.766	3.912	3.999					
6	161.566	80.786	53.860	40.397	26.934	20.202	13.470	10.105	6.739	5.056	3.594	(3.436)	3.745	3.911							
8	121.176	60.592	40.397	30.299	20.202	15.153	10.105	7.580	5.056	3.633	(3.436)	3.745	3.929	6.559							
12	80.786	40.397	26.934	20.202	15.153	10.105	6.739	5.056	3.794	(3.436)	3.763	3.929	6.622								
16	60.592	30.299	20.202	15.153	10.105	7.580	5.056	3.895	(3.436)	3.766	3.983	6.612									
24	40.397	20.202	13.470	10.105	6.739	5.056	3.794	(3.436)	3.766	3.986	6.612										
32	30.299	15.153	10.105	6.739	5.056	3.590	(3.436)	3.766	3.986	6.612											
48	20.202	10.105	6.739	5.056	3.794	(3.436)	3.745	3.914													
64	15.153	7.580	5.056	3.595	(3.436)	3.745	3.911	3.986	6.555												
96	10.105	5.056	3.595	(3.436)	3.745	3.911	3.986	6.555													
128	7.580	3.794	(3.436)	3.763	3.929	6.590															
192	5.056	(3.436)	3.763	3.936																	
256	3.794	3.763	3.983	6.622																	
384	(3.436)	3.982																			
512	3.763	6.527																			
768	3.985																				
1024	6.622																				

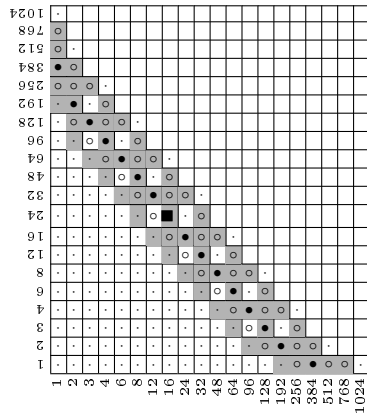


Table 9. MB0 Fermi: Without L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.0465	0.0339	0.0292	0.0397	0.0250	0.0239	0.0356	0.0356	0.0218	0.0208	0.0212	(0.0199)	(0.0202)	0.0254	0.0536	0.0532	0.0527	0.0537	0.0538	0.0536
2	0.0341	0.0272	0.0249	0.0236	0.0228	0.0220	0.0216	0.0213	0.0327	0.0209	0.0205	0.0205	(0.0204)	0.0542	0.0542	0.0541	0.0523	0.0537	0.0538	0.0536
3	0.0300	0.0256	0.0239	0.0355	0.0219	0.0240	0.0339	0.0334	0.0214	0.0326	(0.0203)	0.0308	(0.0202)	0.0928	0.0541	0.0524				
4	0.0406	0.0237	0.0235	0.0226	0.0216	0.0212	0.0213	0.0210	0.0204	0.0330	0.0307	0.0330	(0.0202)	0.0828	0.0548	0.0524				
6	0.0258	0.0236	0.0226	0.0218	0.0213	0.0211	0.0212	(0.0203)	0.0340	0.0208	0.0324	(0.0194)*	0.0204	0.0542						
8	0.0252	0.0228	0.0247	0.0216	0.0209	0.0332	(0.0203)	0.0207	0.0335	0.0310	0.0325	(0.0200)	(0.0200)	0.0535						
12	0.0239	0.0340	0.0215	0.0212	0.0207	(0.0203)	(0.0202)	0.0205	0.0206	0.0336	0.0206	0.0205								
16	0.0237	0.0222	0.0217	0.0212	(0.0203)	0.0330	(0.0202)	0.0210	(0.0203)	0.0336	(0.0200)	0.0204								
24	0.0322	0.0210	0.0217	0.0207	0.0213	0.0244	0.0210	0.0320	(0.0203)	0.0208										
32	0.0355	0.0329	0.0223	(0.0196)	0.0345	0.0204	0.0330	(0.0199)												
48	0.0227	0.0208	0.0332	(0.0203)	0.0329	0.0335	(0.0203)	(0.0201)												
64	0.0218	0.0208	0.0331	(0.0196)	0.0204	(0.0198)	(0.0197)	0.0329												
96	0.0216	0.0213	0.0205	0.0204	0.0209	(0.0203)														
128	0.0523	0.0534	0.0206	0.0538	0.0536	0.0539														
192	0.0334	0.0534	0.0540	0.0533																
256	0.0929	0.0533	0.0535	0.0526																
384	0.0534	0.0533																		
512	0.0934																			
768	0.0537	0.0553																		
1,024	0.0543																			

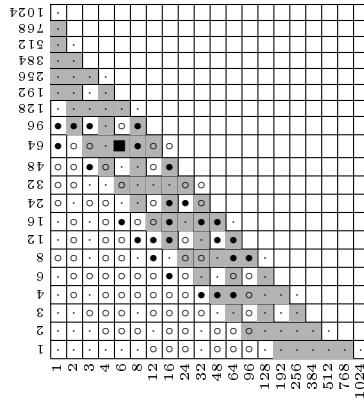


Table10. MB1 Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1209	0.0682	0.0421	0.0412	0.0248	0.0202	0.0245	0.0136	0.0114	0.0103	0.0176	0.0174	0.0082	(0.0078)	0.0152	0.0361	0.0749	0.0352	0.0365	0.0755
2	0.0495	0.0340	0.0252	0.0205	0.0161	0.0217	0.0197	0.0187	0.0094	0.0087	0.0166	0.0079	(0.0077)	(0.0075)	0.0149	0.0357	0.0363	0.0362		
3	0.0456	0.0263	0.0198	0.0166	0.0135	0.0206	0.0104	0.0172	0.0087	0.0082	0.0163	(0.0077)	0.0156	(0.0076)	0.0084	0.0358				
4	0.0378	0.0224	0.0231	0.0230	0.0123	0.0186	0.0182	0.0182	0.0084	0.0176	(0.0078)	(0.0077)	(0.0077)	(0.0076)	0.0162	0.0748				
6	0.0309	0.0269	0.0226	0.0127	0.0110	0.0174	0.0089	0.0165	(0.0078)	0.0158	(0.0077)	(0.0077)	0.0082	(0.0077)						
8	0.0344	0.0245	0.0134	0.0199	0.0092	0.0090	0.0086	0.0081	(0.0078)	(0.0076)	(0.0078)	(0.0077)	0.0079	(0.0077)						
12	0.0225	0.0241	0.0208	0.0176	0.0092	0.0084	0.0082	(0.0078)	0.0176	(0.0077)	(0.0078)	(0.0078)	0.0161	(0.0078)						
16	0.0205	0.0220	0.0108	0.0170	0.0088	0.0083	0.0080	(0.0078)	0.0148	(0.0077)	(0.0078)	0.0079	0.0086							
24	0.0183	0.0116	0.0100	0.0170	0.0088	0.0080	0.0080	(0.0078)	0.0083	(0.0077)	(0.0078)	0.0079	0.0086							
32	0.0175	0.0105	0.0172	0.0089	0.0088	0.0079	0.0161	(0.0078)	0.0083	(0.0077)	(0.0078)	0.0079	0.0086							
48	0.0148	0.0100	0.0095	0.0085	0.0173	0.0081	0.0084	(0.0081)	0.0079	0.0079	0.0086	0.0079	0.0086							
64	0.0139	0.0180	0.0086	0.0165	0.0087	0.0080	0.0083	0.0087												
96	0.0136	0.0102	0.0181	0.0089	0.0091	0.0081	0.0081	0.0087												
128	0.0115	0.0095	0.0091	0.0084	0.0083	0.0079	0.0079	0.0081												
192	0.0136	0.0198	0.0108	0.0178	0.0083	0.0083	0.0079	0.0081												
256	0.0734	0.0360	0.0749	0.0761																
384	0.0742	0.0756																		
512	0.0358	0.0361																		
768	0.0361																			
1024	0.0361																			

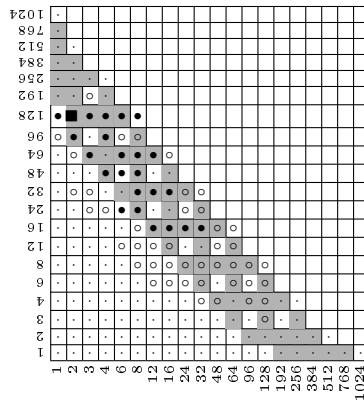


Table 11. MB1 Fermi: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	107.713	53.861	33.909	26.934	17.983	13.471	10.983	6.739	4.496	3.373	2.262	1.690	1.159	(1.002)	(0.984)	(0.997)	(1.010)	(1.002)	1.084	1.970
2	55.456	27.753	18.557	13.824	9.297	6.919	4.690	3.475	2.407	1.691	1.231	(1.001)	(0.984)	(0.995)	(1.008)	(1.003)	1.084	1.982		
3	39.338	19.744	13.229	9.830	6.636	4.943	3.338	2.344	1.676	1.163	1.100	(0.982)	(1.010)	(1.002)	1.108	1.084	1.979			
4	31.526	15.718	10.387	7.889	5.321	3.950	2.579	1.764	1.289	(1.002)	(1.008)	(0.995)	(1.005)	(1.000)	1.084	1.979				
6	23.673	11.840	7.956	5.905	4.091	2.661	1.872	1.235	1.107	(0.982)	(1.012)	(1.007)	1.108	1.084	1.982					
8	19.778	9.897	6.653	4.952	3.070	2.006	1.441	1.031	(1.008)	(0.996)	(1.011)	(1.006)	1.085	1.982						
12	15.863	7.935	5.233	3.358	2.168	1.411	1.235	(1.007)	1.038	(1.000)	1.282	1.084								
16	13.026	6.965	3.936	2.539	1.815	1.201	1.184	(1.018)	1.036	(1.005)	1.145	1.978								
24	11.023	4.754	3.059	2.025	1.797	1.199	1.213	(1.018)	1.221	1.978										
32	7.563	3.750	2.825	1.932	1.797	1.212	1.189	1.160												
48	6.850	3.322	2.705	1.922	2.015	1.198	1.487	1.160												
64	6.701	3.300	2.605	2.064	2.253	1.364														
96	6.739	3.844	3.348	2.119	2.074	2.382														
128	8.113	5.110	4.202	2.960																
256	9.557	5.958	5.466	3.354																
384	12.318	7.896																		
512	16.329	8.362																		
768	21.203																			
1024	23.120																			

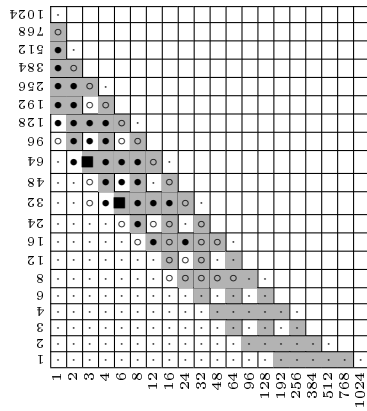


Table12. MB1 Fermi: Normal L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0464	0.0347	0.0302	0.0265	0.0256	0.0233	0.0225	0.0219	0.0212	0.0209	0.0207	0.0205	0.0197	0.0547	0.0543	0.0543	0.0540	0.0538	0.0539	0.0541
2	0.0338	0.0274	0.0262	0.0242	0.0232	0.0222	0.0212	0.0211	0.0207	0.0206	0.0207	0.0205	0.0200	0.0538	0.0543	0.0543	0.0540	0.0538	0.0539	0.0541
3	0.0300	0.0258	0.0231	0.0227	0.0212	0.0217	0.0210	0.0209	0.0207	0.0212	0.0201	0.0201	0.0200	0.0536	0.0543	0.0543	0.0540	0.0538	0.0539	0.0541
4	0.0284	0.0246	0.0231	0.0222	0.0212	0.0210	0.0215	0.0209	0.0204	0.0204	0.0204	0.0204	0.0200	0.0536	0.0543	0.0543	0.0540	0.0538	0.0539	0.0541
6	0.0261	0.0229	0.0222	0.0219	0.0212	0.0209	0.0211	0.0209	0.0204	0.0204	0.0204	0.0204	0.0200	0.0536	0.0543	0.0543	0.0540	0.0538	0.0539	0.0541
8	0.0249	0.0231	0.0227	0.0218	0.0216	0.0213	0.0213	0.0210	0.0204	0.0204	0.0204	0.0204	0.0200	0.0536	0.0543	0.0543	0.0540	0.0538	0.0539	0.0541
12	0.0246	0.0223	0.0212	0.0213	0.0210	0.0207	0.0207	0.0206	0.0201	0.0201	0.0201	0.0201	0.0200	0.0536	0.0543	0.0543	0.0540	0.0538	0.0539	0.0541
16	0.0238	0.0229	0.0209	0.0209	0.0206	0.0206	0.0206	0.0206	0.0201	0.0201	0.0201	0.0201	0.0200	0.0536	0.0543	0.0543	0.0540	0.0538	0.0539	0.0541
24	0.0234	0.0217	0.0206	0.0204	0.0206	0.0206	0.0206	0.0206	0.0201	0.0201	0.0201	0.0201	0.0200	0.0536	0.0543	0.0543	0.0540	0.0538	0.0539	0.0541
32	0.0228	0.0212	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0201	0.0201	0.0201	0.0201	0.0200	0.0536	0.0543	0.0543	0.0540	0.0538	0.0539	0.0541
48	0.0216	0.0215	0.0216	0.0200	0.0214	0.0214	0.0214	0.0214	0.0204	0.0204	0.0204	0.0204	0.0200	0.0536	0.0543	0.0543	0.0540	0.0538	0.0539	0.0541
64	0.0216	0.0209	0.0216	0.0205	0.0210	0.0210	0.0210	0.0210	0.0204	0.0204	0.0204	0.0204	0.0200	0.0536	0.0543	0.0543	0.0540	0.0538	0.0539	0.0541
96	0.0539	0.0549	0.0545	0.0547	0.0546	0.0545	0.0547	0.0547	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546
128	0.0547	0.0549	0.0545	0.0547	0.0546	0.0545	0.0547	0.0547	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546
192	0.0544	0.0532	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540
256	0.0544	0.0535	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540
384	0.0544	0.0535	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540
512	0.0538	0.0545	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540
768	0.0541	0.0545	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540
1024	0.0550	0.0545	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540

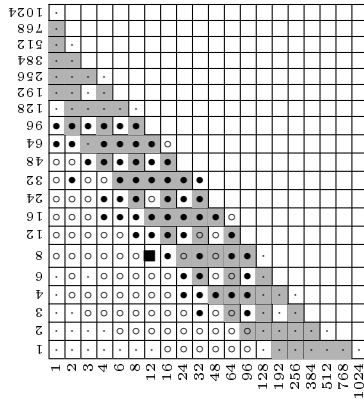


Table13. MB1 Fermi: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.1127	0.0601	0.0426	0.0338	0.0251	0.0207	0.0163	0.0141	0.0119	0.0108	0.0099	0.0092	0.0086	(0.0082)	(0.0084)	0.0382	0.0378	0.0386	0.0387	0.0383
2	0.0813	0.0345	0.0256	0.0211	0.0166	0.0142	0.0120	0.0109	0.0099	0.0091	0.0088	0.0086	(0.0083)	(0.0081)*	(0.0082)	0.0375	0.0357	0.0379		
3	0.0458	0.0265	0.0204	0.0170	0.0140	0.0123	0.0109	0.0098	0.0092	0.0087	(0.0084)	(0.0083)	(0.0083)	(0.0083)	(0.0086)	0.0370				
4	0.0381	0.0228	0.0178	0.0152	0.0127	0.0114	0.0100	0.0092	0.0085	0.0085	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0084)					
6	0.0305	0.0191	0.0152	0.0134	0.0115	0.0101	0.0092	0.0085	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)					
8	0.0268	0.0172	0.0140	0.0124	0.0109	0.0095	0.0092	0.0085	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)					
12	0.0229	0.0151	0.0125	0.0108	0.0097	0.0089	0.0087	(0.0084)	(0.0084)	(0.0082)	0.0088	(0.0084)	(0.0084)	(0.0083)	(0.0083)					
16	0.0211	0.0142	0.0113	0.0099	0.0092	0.0088	0.0085	(0.0084)	(0.0084)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)					
24	0.0188	0.0121	0.0105	0.0094	0.0090	0.0085	0.0085	(0.0084)	(0.0084)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)					
32	0.0180	0.0111	0.0102	0.0094	0.0092	0.0086	0.0085	(0.0084)	(0.0084)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)					
48	0.0152	0.0106	0.0100	0.0094	0.0092	0.0085	0.0085	(0.0084)	(0.0084)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)					
64	0.0144	0.0110	0.0205	0.0093	0.0093	0.0085	0.0085	(0.0084)	(0.0084)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)					
96	0.0139	0.0109	0.0108	0.0093	0.0093	0.0085	0.0085	(0.0084)	(0.0084)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)					
128	0.0120	0.0100	0.0098	0.0089	0.0087	0.0085	0.0085	(0.0084)	(0.0084)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0083)					
192	0.0154	0.0115	0.0112	0.0096																
256	0.0380	0.0377	0.0386	0.0379																
384	0.0374	0.0393																		
512	0.0378	0.0497																		
768	0.0376																			
1,024	0.0377																			

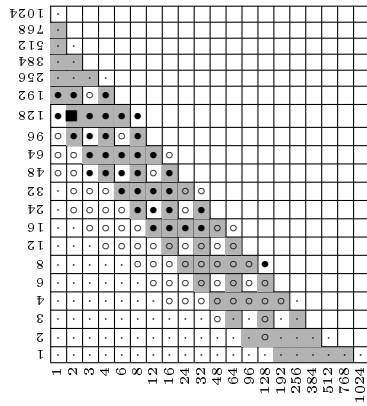


Table14. MB1 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	107.714	53.861	33.910	26.934	17.989	13.471	10.983	6.740	4.497	3.374	2.261	1.691	1.161	(1.001)	(0.954)	(0.905)	(1.012)	(1.007)	1.085	1.024	
2	55.292	27.617	18.535	13.862	9.283	6.934	4.983	3.471	2.411	1.691	1.229	(1.003)	(0.983)	(0.995)	(1.007)	(1.001)	1.084	1.964			
3	30.264	19.648	13.208	9.861	6.649	4.934	3.422	2.333	1.680	1.162	1.100	(0.983)	(1.004)	(1.004)	1.108	1.084					
4	31.389	15.696	10.535	7.877	5.313	3.943	2.667	1.761	1.286	(1.002)	(1.012)	(0.996)	(1.006)	(1.005)	1.085	1.982					
6	23.638	11.788	7.944	5.918	4.097	2.658	1.867	1.231	1.107	(0.983)	(1.012)	(1.011)	1.200	1.083							
8	19.768	9.884	6.644	4.932	3.074	2.004	1.335	(1.030)	(1.014)	(0.990)	(1.007)	(1.002)	1.084	1.960							
12	15.880	7.945	5.217	3.346	2.174	1.407	1.231	(1.007)	1.047	(1.007)	1.278	1.084									
16	13.923	6.975	3.933	2.530	1.819	1.200	1.182	(1.024)	1.045	(1.008)	1.144	1.960									
24	11.978	4.749	3.062	2.023	1.803	1.144	1.223	(1.022)	1.221	1.085											
32	7.581	3.527	2.705	1.935	2.020	1.203	1.486	1.161													
48	6.838	3.353	2.606	2.079	1.886	1.204	1.367	2.133													
64	6.700	3.299	2.976	2.085	2.250	1.362															
96	6.743	3.831	3.348	2.126	2.071	2.386															
128	8.187	5.133	4.221	2.944																	
256	9.539	5.901	5.470	3.380																	
384	12.380	7.912																			
512	16.357	8.345																			
768	21.205																				
1024	23.125																				

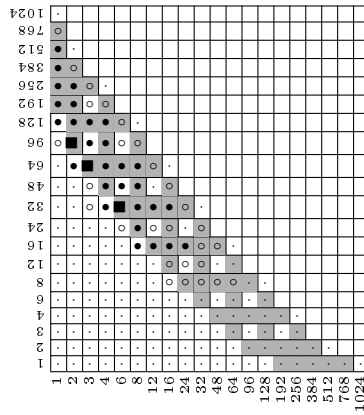


Table 15. MB1 Fermi: Increased L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.0463	0.0343	0.0416	0.0271	0.0260	0.0240	0.0233	0.0222	0.0212	0.0215	0.0206	(0.0197)	0.0203	0.0542	0.0543	0.0540	0.0538	0.0537	0.0534	0.0533
2	0.0338	0.0273	0.0243	0.0236	0.0226	0.0222	0.0213	0.0211	0.0208	0.0204	(0.0199)	0.0201	0.0200	0.0542	0.0528	0.0540	0.0534			
3	0.0295	0.0250	0.0359	0.0228	0.0218	0.0212	0.0212	0.0205	0.0210	0.0207	(0.0197)	0.0201	(0.0199)	0.0535	0.0532	0.0540	0.0534			
4	0.0281	0.0248	0.0232	0.0225	0.0214	0.0213	0.0208	0.0204	0.0202	0.0200	(0.0192)	(0.0198)	(0.0196)	0.0540	0.0535	0.0539				
6	0.0259	0.0237	0.0231	0.0216	0.0209	0.0212	0.0205	(0.0198)	0.0204	(0.0199)	(0.0197)	0.0200	0.0200	0.0532						
8	0.0253	0.0228	0.0216	0.0217	0.0210	0.0209	(0.0197)	0.0202	0.0202	(0.0197)	0.0200	0.0202	(0.0197)	0.0521						
12	0.0242	0.0220	0.0206	0.0209	0.0203	0.0201	0.0204	0.0202	0.0201	0.0204	0.0200	0.0202								
16	0.0236	0.0220	0.0206	0.0208	0.0206	0.0203	(0.0198)	0.0201	(0.0197)	0.0202	0.0202	0.0202								
24	0.0230	0.0209	0.0213	0.0205	0.0203	(0.0198)	0.0201	0.0203	0.0204	0.0201										
32	0.0225	0.0209	0.0206	0.0200	0.0201	0.0207	0.0200	0.0203	0.0204	0.0201										
48	0.0222	0.0212	0.0212	(0.0199)	0.0204	(0.0199)	0.0203	0.0203	0.0201	0.0207										
64	0.0211	0.0205	(0.0193)	0.0207	0.0202	0.0204	(0.0197)	0.0202												
96	0.0338	0.0208	(0.0193)	0.0207	0.0202	0.0204	(0.0197)	0.0202												
128	0.0324	0.0537	0.0532	0.0531	0.0534	0.0538	0.0532													
192	0.0322	0.0532	0.0532	0.0531	0.0529															
256	0.0543	0.0537	0.0548	0.0537																
384	0.0526	0.0537																		
512	0.0541	0.0543																		
768	0.0537																			
1,024	0.0548																			

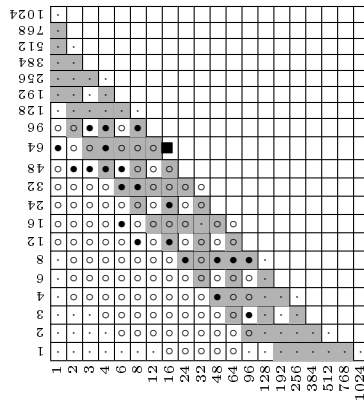


Table 16. MB1 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1122	0.0596	0.0421	0.0333	0.0248	0.0202	0.0236	0.0136	0.0114	0.0103	0.0093	0.0087	0.0082	(0.0076)	(0.0077)	0.0062	0.0074	0.0055	0.0054	0.0055
2	0.0811	0.0340	0.0252	0.0205	0.0162	0.0138	0.0116	0.0104	0.0094	0.0086	0.0083	0.0078	(0.0077)	(0.0075)*	(0.0077)	0.0062	0.0071	0.0056	0.0056	
3	0.0454	0.0224	0.0199	0.0167	0.0135	0.0118	0.0104	0.0093	0.0087	0.0082	0.0079	(0.0077)	(0.0077)	(0.0076)	(0.0077)	0.0062	0.0071	0.0056	0.0056	
4	0.0378	0.0224	0.0173	0.0146	0.0121	0.0109	0.0168	0.0087	0.0083	0.0079	(0.0077)	(0.0077)	(0.0077)	(0.0076)	(0.0077)	0.0062	0.0071	0.0056	0.0056	
6	0.0300	0.0185	0.0148	0.0127	0.0110	0.0096	0.0089	0.0167	0.0079	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0076)	(0.0077)	0.0062	0.0071	0.0056	0.0056	
8	0.0263	0.0167	0.0134	0.0118	0.0102	0.0090	0.0084	0.0081	0.0151	(0.0076)	(0.0077)	(0.0077)	(0.0077)	(0.0076)	(0.0077)	0.0062	0.0071	0.0056	0.0056	
12	0.0225	0.0146	0.0120	0.0103	0.0092	0.0086	0.0082	0.0154	(0.0076)	(0.0076)	(0.0077)	(0.0077)	(0.0077)	(0.0076)	(0.0077)	0.0062	0.0071	0.0056	0.0056	
16	0.0206	0.0137	0.0109	0.0095	0.0088	0.0083	0.0081	0.0150	0.0079	0.0079	0.0079	0.0079	0.0079	0.0078	0.0079	0.0062	0.0071	0.0056	0.0056	
24	0.0183	0.0116	0.0100	0.0088	0.0082	0.0081	0.0081	0.0150	0.0079	0.0079	0.0079	0.0079	0.0079	0.0078	0.0079	0.0062	0.0071	0.0056	0.0056	
32	0.0175	0.0106	0.0096	0.0089	0.0087	0.0087	0.0081	0.0150	0.0079	0.0079	0.0079	0.0079	0.0079	0.0078	0.0079	0.0062	0.0071	0.0056	0.0056	
48	0.0144	0.0101	0.0096	0.0085	0.0086	0.0087	0.0081	0.0150	0.0079	0.0079	0.0079	0.0079	0.0079	0.0078	0.0079	0.0062	0.0071	0.0056	0.0056	
64	0.0217	0.0102	0.0097	0.0086	0.0087	0.0087	0.0081	0.0150	0.0079	0.0079	0.0079	0.0079	0.0079	0.0078	0.0079	0.0062	0.0071	0.0056	0.0056	
96	0.0135	0.0105	0.0095	0.0089	0.0088	0.0088	0.0081	0.0150	0.0079	0.0079	0.0079	0.0079	0.0079	0.0078	0.0079	0.0062	0.0071	0.0056	0.0056	
128	0.0113	0.0094	0.0092	0.0084	0.0082	0.0082	0.0079	0.0150	0.0079	0.0079	0.0079	0.0079	0.0079	0.0078	0.0079	0.0062	0.0071	0.0056	0.0056	
192	0.0141	0.0108	0.0107	0.0091	0.0082	0.0079														
256	0.0365	0.0353	0.0365	0.0363																
384	0.0376	0.0366																		
512	0.0361	0.0370																		
768	0.0360																			
1024	0.0363																			

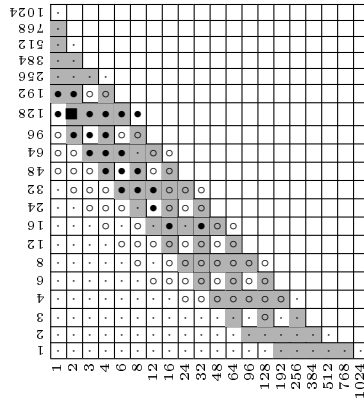


Table17. MB1 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	107.713	53.8601	33.9009	26.934	17.9888	13.471	10.983	6.739	4.496	3.373	2.261	1.690	1.163	(1.002)	(0.984)	(0.996)	(1.002)	(1.005)	1.083	1.024
2	85.610	27.621	18.479	13.817	9.319	6.912	4.885	3.459	2.414	1.691	1.230	(1.002)	(0.982)	(0.996)	(1.015)	(1.006)	1.083	1.980		
3	39.303	19.727	13.213	9.869	6.651	4.935	3.334	2.333	1.676	1.159	1.101	(0.988)	(1.015)	(1.005)	1.201	1.084				
4	31.436	15.759	10.540	7.861	5.393	3.932	2.576	1.755	1.286	(1.002)	(1.005)	(0.996)	(1.002)	(1.004)	1.084	1.984				
6	23.656	11.796	7.923	5.918	4.098	2.668	1.875	1.228	1.107	(0.985)	(1.010)	(1.006)	1.108	1.082						
8	19.711	9.888	6.647	4.947	3.076	2.010	1.440	(1.023)	(1.046)	(0.995)	(1.006)	(1.005)	1.086	1.988						
12	15.889	7.928	5.219	3.347	2.173	1.410	1.229	(1.006)	1.046	(0.996)	1.278	1.083								
16	13.915	6.974	3.933	2.530	1.814	1.200	1.181	1.084	1.040	(1.006)	1.144	1.970								
24	11.978	4.741	3.062	2.028	1.800	1.449	1.204	(1.014)	1.318	1.084										
32	11.022	3.779	2.827	1.997	1.937	2.012	1.204	1.409	1.222	1.984										
48	7.582	3.524	2.704	1.992	2.012	1.204	1.483	1.461												
64	6.850	3.394	2.607	2.080	1.886	1.205	1.367	2.120												
96	6.699	3.299	2.981	2.075	2.243	1.412														
128	6.743	3.835	3.384	2.127	2.067	2.369														
192	8.186	5.117	4.221	2.978																
256	9.560	5.937	5.485	3.373																
384	12.277	7.876																		
512	16.220	8.167																		
768	21.145																			
1024	23.348																			

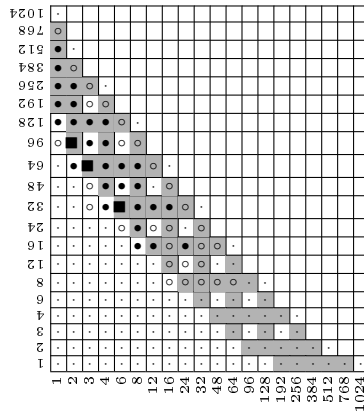


Table18. MB1 Fermi: Without L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0465	0.0339	0.0290	0.0270	0.0250	0.0237	0.0224	0.0220	0.0286	0.0215	0.0212	0.0205	0.0200	0.0540	0.0546	0.0528	0.0539	0.0539	0.0532	0.0535
2	0.0338	0.0273	0.0241	0.0236	0.0224	0.0224	0.0220	0.0212	0.0334	0.0214	0.0204	0.0200	0.0206	0.0337	0.0523	0.0544	0.0536	0.0532		
3	0.0293	0.0248	0.0235	0.0225	0.0219	0.0214	0.0212	0.0210	0.0208	0.0198	0.0204	0.0200	0.0190	0.0339	0.0543	0.0531	0.0536	0.0532		
4	0.0265	0.0239	0.0227	0.0219	0.0215	0.0216	0.0207	0.0215	0.0201	0.0194	0.0200	0.0202	0.0194	0.0339	0.0541	0.0537	0.0536	0.0532		
6	0.0250	0.0228	0.0218	0.0216	0.0214	0.0211	0.0211	0.0203	0.0200	0.0208	0.0203	0.0202	0.0200	0.0340	0.0541	0.0537	0.0536	0.0532		
8	0.0238	0.0224	0.0212	0.0216	0.0204	0.0212	0.0203	0.0203	0.0202	0.0202	0.0203	0.0202	0.0202	0.0340	0.0541	0.0537	0.0536	0.0532		
12	0.0224	0.0212	0.0211	0.0207	0.0206	0.0205	0.0205	0.0206	0.0202	0.0205	0.0203	0.0204	0.0204	0.0332						
16	0.0223	0.0213	0.0208	0.0209	0.0204	0.0202	0.0202	0.0202	0.0202	0.0204	0.0204	0.0204	0.0204							
24	0.0218	0.0210	0.0210	0.0200	0.0204	0.0207	0.0200	0.0200	0.0204	0.0201	0.0201	0.0201	0.0201							
32	0.0214	0.0210	0.0204	0.0201	0.0206	0.0206	0.0201	0.0202	0.0204	0.0204	0.0204	0.0204	0.0204							
48	0.0216	0.0202	0.0192*	0.0206	0.0206	0.0201	0.0203	0.0203	0.0208	0.0208	0.0208	0.0208	0.0208							
64	0.0207	0.0204	0.0200	0.0202	0.0204	0.0204	0.0204	0.0205	0.0206	0.0206	0.0206	0.0206	0.0206							
96	0.0201	0.0206	0.0213	0.0202	0.0212	0.0206	0.0206	0.0205	0.0205	0.0205	0.0205	0.0205	0.0205							
128	0.0535	0.0539	0.0535	0.0532	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535							
192	0.0526	0.0549	0.0534	0.0540	0.0538	0.0538	0.0538	0.0538	0.0538	0.0538	0.0538	0.0538	0.0538							
256	0.0541	0.0538	0.0543	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537							
384	0.0534	0.0546	0.0543	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537							
512	0.0535	0.0519																		
768	0.0536																			
1024	0.0534																			

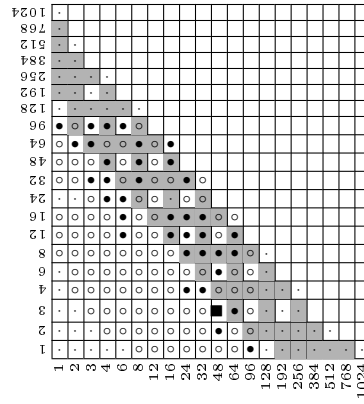


Table19. MB2 Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1122	0.0597	0.0421	0.0333	0.0246	0.0202	0.0158	0.0136	0.0115	0.0103	0.0093	0.0089	0.0083	(0.0077)	(0.0077)	0.0376	0.0363	0.0360	0.0358	0.0360
2	0.0597	0.0334	0.0245	0.0202	0.0158	0.0136	0.0115	0.0103	0.0093	0.0087	0.0082	0.0080	(0.0077)	(0.0075)	(0.0078)	0.0363	0.0362	0.0355		
3	0.0421	0.0246	0.0158	0.0136	0.0130	0.0115	0.0101	0.0093	0.0087	0.0082	0.0079	(0.0077)	(0.0077)	(0.0075)	(0.0078)	0.0361				
4	0.0333	0.0202	0.0158	0.0136	0.0115	0.0103	0.0093	0.0087	0.0083	0.0079	(0.0078)	(0.0077)	(0.0078)	(0.0076)	(0.0077)	0.0359				
6	0.0246	0.0158	0.0130	0.0115	0.0102	0.0095	0.0087	0.0082	0.0079	(0.0078)	(0.0077)	(0.0078)	0.0082	(0.0076)	(0.0077)					
8	0.0202	0.0136	0.0115	0.0103	0.0093	0.0086	0.0082	0.0079	(0.0078)	(0.0077)	(0.0078)	(0.0077)	0.0081	(0.0077)	(0.0077)					
12	0.0158	0.0103	0.0093	0.0087	0.0082	0.0079	(0.0078)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	(0.0077)	0.0085	(0.0077)	(0.0077)					
16	0.0136	0.0093	0.0087	0.0082	0.0082	0.0079	(0.0078)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	0.0080								
24	0.0103	0.0087	0.0082	0.0082	(0.0078)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	0.0085								
32	0.0093	0.0082	0.0082	(0.0078)	(0.0076)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	(0.0077)	(0.0078)									
48	0.0087	0.0080	(0.0076)	(0.0076)	(0.0077)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	(0.0077)	(0.0078)									
64	0.0082	(0.0075)	(0.0076)	(0.0076)	(0.0077)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	(0.0077)	(0.0078)									
96	(0.0076)	(0.0077)	(0.0076)	(0.0076)	(0.0077)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	(0.0077)	(0.0078)									
128	(0.0077)	(0.0077)	(0.0076)	(0.0076)	(0.0077)	(0.0077)	(0.0078)	(0.0077)	(0.0078)	(0.0077)	(0.0078)									
192	(0.0077)	(0.0077)	0.0170	0.0079																
256	0.0360	0.0362																		
384	0.0353	0.0366																		
512	0.0364																			
768																				
1024	0.0361																			

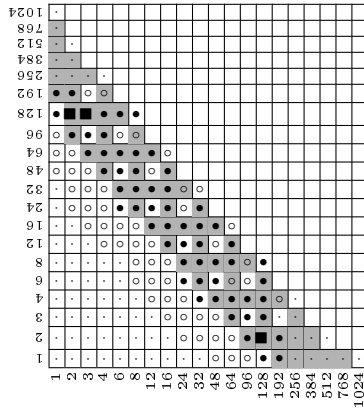


Table20. MB2 Fermi: Normal L1, size 192×192, milliseconds.

1	107.716	53.881	35.935	26.950	17.992	13.473	8.999	6.743	4.568	3.374	2.306	1.700	1.184	1.013	0.985	1.008	0.983	0.977	1.052	1.069	1.052	1.024
2	53.872	26.945	17.976	13.477	8.999	6.742	4.568	3.377	2.314	1.704	1.189	1.016	0.984	1.011	0.984	1.002	0.982	0.977	1.052	1.069	1.052	1.024
3	35.936	17.992	12.011	8.999	6.050	4.553	3.186	2.315	1.641	1.180	1.094	1.036	0.984	1.001	0.988	1.189	1.054	1.054				
4	26.945	13.475	9.011	6.743	4.568	3.375	2.316	1.699	1.181	1.016	0.986	0.986	1.009	0.977	1.058	1.058	1.054	1.054				
6	17.975	8.999	6.068	4.554	3.178	2.308	1.640	1.186	1.094	1.000	0.986	0.986	1.191	1.054								
8	13.471	6.743	4.568	3.377	2.312	1.704	1.185	1.017	0.988	1.000	0.987	1.058	1.058	1.251								
12	9.013	4.568	3.176	2.309	1.640	1.182	1.090	0.987	0.991	0.983	1.191	1.053										
16	6.743	3.375	2.318	1.705	1.182	1.090	0.984	1.035	0.991	0.978	1.187	1.051										
24	4.567	2.318	1.642	1.184	1.090	0.983	1.020	0.997	1.193	1.051	1.055	1.972										
32	3.375	1.706	1.186	1.015	0.987	1.014	0.983	1.051	1.935													
48	2.310	1.186	1.090	0.983	1.020	0.997	1.183	1.051														
64	1.704	1.010	0.976	0.982	0.992	1.183	1.049	1.973														
96	1.180	0.978	0.976	0.982	0.992	1.183	1.049	1.973														
128	1.012	0.976	0.983	0.983	0.983	0.983	0.983	0.983														
192	0.975	0.983	0.983	0.983	0.983	0.983	0.983	0.983														
256	0.992	0.974	1.050	1.050	1.050	1.050	1.050	1.050														
384	0.983	1.050	1.949	1.949	1.949	1.949	1.949	1.949														
512	0.972	1.949																				
768	1.053																					
1024	1.962																					

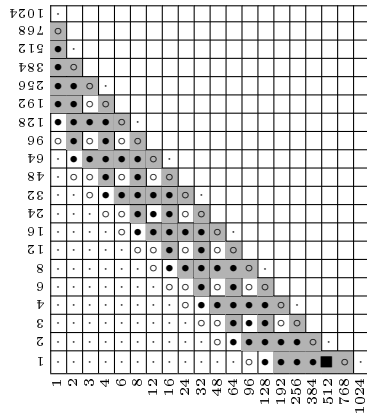


Table21. MB2 Fermi: Normal L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0466	0.0339	0.0297	0.0268	0.0252	0.0238	0.0224	0.0223	0.0213	0.0208	0.0206	0.0202	0.0200	0.0337	0.0540	0.0541	0.0538	0.0536	0.0547	0.0544
2	0.0333	0.0278	0.0249	0.0236	0.0225	0.0219	0.0213	0.0216	0.0210	0.0215	0.0201	0.0213	0.0202	0.0542	0.0546	0.0547	0.0546	0.0546		
3	0.0296	0.0243	0.0231	0.0227	0.0218	0.0217	0.0223	0.0207	0.0209	0.0202	0.0204	0.0203	0.0213	0.0542	0.0546	0.0812				
4	0.0275	0.0240	0.0223	0.0223	0.0211	0.0212	0.0210	0.0218	0.0207	0.0209	0.0206	0.0203	0.0213	0.0542	0.0546	0.0549	0.0542			
6	0.0252	0.0227	0.0222	0.0214	0.0223	0.0212	0.0213	0.0199	0.0211	0.0201	0.0206	0.0204	0.0204	0.0543						
8	0.0235	0.0224	0.0218	0.0214	0.0205	0.0204	0.0198	0.0201	0.0207	0.0203	0.0201	0.0208	0.0204	0.0535						
12	0.0234	0.0219	0.0219	0.0220	0.0205	0.0200	0.0202	0.0205	0.0199	0.0203	0.0201	0.0208	0.0204							
16	0.0233	0.0209	0.0205	0.0210	0.0205	0.0200	0.0198	0.0205	0.0201	0.0201	0.0206	0.0215	0.0208							
24	0.0220	0.0206	0.0203	0.0212	0.0206	0.0207	0.0198	0.0206	0.0208	0.0206										
32	0.0212	0.0197	0.0204	0.0206	0.0198	0.0203	0.0198	0.0203	0.0199	0.0203										
48	0.0199	0.0201	0.0199	0.0204	0.0198	0.0204	0.0204	0.0202	0.0197	0.0202										
64	0.0197	0.0206	0.0204	0.0204	0.0204	0.0206	0.0204	0.0198	0.0204	0.0202										
96																				
128	0.0534	0.0541	0.0541	0.0534	0.0534	0.0538														
192	0.0540	0.0538	0.0542	0.0542	0.0546	0.0539	0.0537													
256	0.0538	0.0532																		
384	0.0558																			
512	0.0537	0.0542																		
768																				
1024	0.0536																			

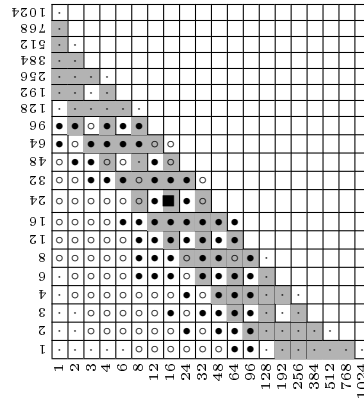


Table22. MB2 Fermi: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1127	0.0601	0.0427	0.0339	0.0251	0.0207	0.0164	0.0141	0.0120	0.0108	0.0098	0.0092	0.0087	(0.0082)	(0.0085)	0.0385	0.0388	0.0388	0.0378	0.0382
2	0.0601	0.0339	0.0251	0.0207	0.0163	0.0141	0.0120	0.0108	0.0099	0.0092	0.0087	0.0084	(0.0083)	(0.0081)	(0.0083)	0.0385	0.0379	0.0386		
3	0.0427	0.0251	0.0163	0.0134	0.0119	0.0108	0.0098	0.0092	0.0087	0.0085	(0.0084)	(0.0083)	(0.0082)	(0.0081)	0.0086	0.0372				
4	0.0339	0.0207	0.0134	0.0119	0.0107	0.0098	0.0091	0.0087	(0.0084)	(0.0083)	(0.0083)	(0.0083)	(0.0082)	(0.0082)	(0.0084)	0.0378				
6	0.0251	0.0163	0.0119	0.0109	0.0098	0.0093	0.0087	0.0084	0.0087	(0.0083)	(0.0083)	(0.0084)	(0.0084)	(0.0083)						
8	0.0207	0.0141	0.0106	0.0097	0.0092	0.0087	(0.0084)	(0.0083)	(0.0083)	(0.0083)	(0.0084)	(0.0084)	(0.0084)	(0.0083)						
12	0.0141	0.0098	0.0079	0.0072	0.0067	0.0064	(0.0061)	(0.0063)	(0.0062)	(0.0062)	(0.0063)	(0.0063)	(0.0064)	(0.0063)						
16	0.0120	0.0092	0.0077	0.0071	0.0065	0.0064	(0.0063)	(0.0063)	(0.0063)	(0.0063)	(0.0064)	(0.0064)	(0.0064)	(0.0063)						
24	0.0108	0.0087	0.0084	0.0083	0.0083	0.0084	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0084)	(0.0084)	(0.0084)	(0.0083)						
32	0.0108	0.0092	0.0087	0.0085	0.0085	0.0087	(0.0083)	(0.0083)	(0.0082)	(0.0082)	(0.0083)	(0.0083)	(0.0084)	(0.0083)						
48	0.0098	0.0087	0.0084	0.0083	0.0083	0.0084	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0084)	(0.0084)	(0.0084)	(0.0083)						
64	0.0092	0.0085	0.0083	0.0083	0.0083	0.0087	(0.0083)	(0.0083)	(0.0082)	(0.0082)	(0.0083)	(0.0083)	(0.0084)	(0.0083)						
96	0.0087	(0.0080)*	(0.0083)	0.0087	(0.0082)	(0.0081)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0084)	(0.0084)	(0.0084)	(0.0083)						
128	(0.0082)	(0.0080)*	(0.0083)	0.0087	(0.0082)	(0.0081)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0084)	(0.0084)	(0.0084)	(0.0083)						
192	0.0085	(0.0080)*	(0.0083)	0.0087	(0.0082)	(0.0081)	(0.0083)	(0.0083)	(0.0083)	(0.0083)	(0.0084)	(0.0084)	(0.0084)	(0.0083)						
256	0.0372	0.0385	0.0386	0.0375																
384	0.0499	0.0385	0.0386	0.0375																
512	0.0381	0.0382																		
768	0.0386	0.0382																		
1024	0.0383																			

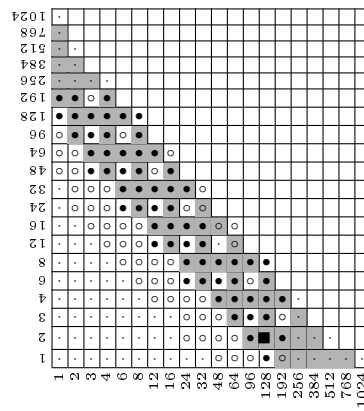


Table 23. MB2 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1.07714	53.862	35.945	26.935	17.983	13.473	8.924	6.742	4.561	3.374	2.311	1.703	1.181	(1.013)	(0.988)	(0.989)	(0.984)	(0.977)	1.051	1.959
2	53.861	26.935	17.971	13.473	9.005	6.740	4.561	3.376	2.311	1.698	1.185	(1.017)	(0.987)	(1.004)	(0.993)	1.193	1.052			
3	35.928	17.982	11.991	9.005	6.042	4.546	3.183	2.312	1.643	1.183	1.100	(0.950)	1.047	(0.983)	1.056	1.258				
4	26.938	13.477	8.995	6.740	4.547	3.376	2.304	1.698	1.184	(1.016)	(0.985)	(1.002)	(0.993)	(0.985)	1.058	1.258				
6	17.973	9.004	6.041	4.546	3.183	2.305	1.643	1.183	1.093	(0.977)	(1.015)	(0.984)	1.195	1.050						
8	13.473	6.742	4.547	3.373	2.305	1.698	1.182	(1.017)	(0.989)	(1.001)	(1.009)	(0.978)	1.058	1.259						
12	9.004	4.560	3.184	2.306	1.643	1.182	1.094	(0.980)	(1.006)	(0.990)	1.188	1.050								
16	6.740	3.376	2.307	1.698	1.183	1.092	(0.989)	(0.990)	(0.988)	(0.979)	1.052	1.259								
24	4.547	2.307	1.644	1.181	1.096	(0.982)	1.025	(0.993)	(0.988)	1.192	1.053	1.259								
32	3.376	1.702	1.185	(1.017)	(0.983)	1.022	(1.004)	(0.978)	1.186	1.054										
48	2.316	1.183	1.092	(0.983)	1.022	(0.982)	1.186	1.050												
64	1.703	(1.009)	(0.979)	(0.980)	(0.985)	(0.972)	1.051	1.963												
96	1.185	(0.977)	1.020	(0.980)	1.185	1.051														
128	(1.012)	(0.988)	(0.989)	(0.975)	1.048	1.959														
192	(0.975)	(0.983)	1.195	1.048																
256	(0.971)*	(0.972)	1.049																	
384	(0.985)	1.049																		
512	(0.973)	1.956																		
768	1.052																			
1024	1.955																			

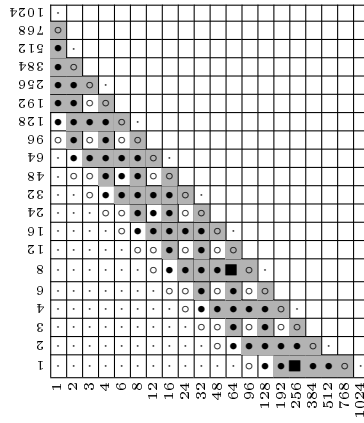


Table 24. MB2 Fermi: Increased L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.0466	0.0332	0.0233	0.0272	0.0247	0.0233	0.0225	0.0220	0.0211	0.0214	0.0206	(0.0193)	0.0201	0.0542	0.0538	0.0526	0.0543	0.0543	0.0524	
2	0.0337	0.0268	0.0249	0.0238	0.0227	0.0218	0.0207	0.0210	0.0211	0.0206	(0.0187)	0.0198	0.0208	0.0535	0.0527	0.0540				
3	0.0295	0.0247	0.0231	0.0232	0.0221	0.0214	0.0209	0.0207	0.0207	0.0198	0.0198	0.0196	0.0202	0.0532	0.0539	0.0531				
4	0.0270	0.0237	0.0225	0.0214	0.0209	0.0215	0.0208	0.0206	0.0200	(0.0185)	0.0196	0.0199	0.0208	0.0532	0.0539	0.0531				
6	0.0245	0.0219	0.0218	0.0218	0.0216	0.0211	0.0208	0.0203	0.0201	0.0202	0.0202	0.0201	0.0197	0.0533						
8	0.0234	0.0214	0.0214	0.0216	0.0206	0.0211	0.0203	0.0197	0.0199	0.0200	0.0202	0.0201	0.0196	0.0533						
12	0.0226	0.0210	0.0206	0.0210	0.0204	0.0200	0.0200	0.0202	0.0205	0.0205	0.0204	0.0201	0.0198	0.0533						
16	0.0220	0.0209	0.0205	0.0204	0.0205	0.0202	0.0202	0.0198	0.0202	0.0202	0.0202	0.0201	0.0196	0.0533						
24	0.0215	0.0207	0.0207	0.0201	0.0207	0.0203	0.0203	0.0200	0.0200	0.0200	0.0200	0.0200	0.0196	0.0533						
32	0.0210	0.0207	0.0207	0.0201	0.0205	0.0203	0.0203	0.0200	0.0200	0.0200	0.0200	0.0200	0.0196	0.0533						
48	0.0205	0.0197	0.0211	0.0201	(0.0190)	0.0198	0.0199	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0202						
64	0.0203	0.0203	0.0203	0.0203	(0.0190)	0.0198	0.0199	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0202						
96	0.0201	0.0204	0.0199	0.0201	0.0204	(0.0190)	0.0198	0.0199	0.0203	0.0203	0.0203	0.0203	0.0203	0.0202						
128	0.0538	0.0539	0.0542	0.0535	0.0537	0.0551														
192	0.0538	0.0539	0.0542	0.0535	0.0537	0.0551														
256	0.0538	0.0539	0.0542	0.0535	0.0537	0.0551														
384	0.0534	0.0536	0.0538	0.0533																
512	0.0534	0.0536	0.0538	0.0533																
768	0.0535	0.0536	0.0538	0.0533																
1,024	0.0532																			

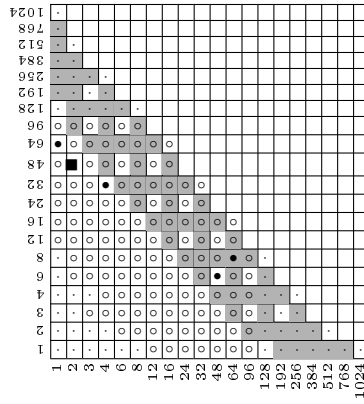


Table 25. MB2 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1122	0.0597	0.0421	0.0333	0.0246	0.0202	0.0158	0.0136	0.0115	0.0103	0.0093	0.0087	0.0082	(0.0076)	(0.0076)	0.0362	0.0368	0.0366	0.0376	0.0365
2	0.0597	0.0333	0.0246	0.0201	0.0158	0.0136	0.0115	0.0103	0.0093	0.0087	0.0082	0.0079	(0.0077)	(0.0075)	(0.0077)	0.0358	0.0354	0.0360		
3	0.0421	0.0246	0.0158	0.0130	0.0115	0.0102	0.0093	0.0087	0.0082	0.0082	0.0079	(0.0077)	(0.0077)	(0.0075)						
4	0.0333	0.0202	0.0158	0.0136	0.0115	0.0103	0.0093	0.0087	0.0082	0.0078	(0.0077)	(0.0077)	(0.0077)	(0.0076)						
6	0.0246	0.0158	0.0129	0.0115	0.0101	0.0093	0.0083	0.0082	0.0078	(0.0077)	(0.0077)	(0.0077)	0.0082	0.0079						
8	0.0202	0.0136	0.0115	0.0103	0.0093	0.0082	0.0079	0.0079	(0.0077)	0.0172	0.0082	(0.0077)	0.0079	(0.0078)						
12	0.0158	0.0115	0.0102	0.0093	0.0083	0.0082	0.0079	(0.0077)	(0.0077)	(0.0077)	(0.0078)	0.0086								
16	0.0136	0.0103	0.0093	0.0087	0.0081	0.0079	(0.0077)	(0.0077)	(0.0078)	0.0082										
24	0.0115	0.0093	0.0086	0.0082	0.0080	(0.0077)	(0.0076)	(0.0077)	(0.0078)	0.0085										
32	0.0103	0.0087	0.0083	0.0081	0.0079	(0.0077)	(0.0076)	(0.0077)	(0.0078)											
48	0.0087	0.0079	0.0079	(0.0077)	(0.0076)	(0.0077)	(0.0076)	(0.0077)	0.0082											
64	0.0082	(0.0077)	(0.0077)	(0.0077)	(0.0076)	(0.0077)	(0.0076)	(0.0077)												
96	(0.0077)	(0.0076)	(0.0077)	(0.0076)	(0.0076)	(0.0077)	(0.0076)	(0.0077)												
128	(0.0077)	(0.0076)	(0.0077)	(0.0076)	(0.0076)	(0.0077)	(0.0076)	(0.0077)												
192	(0.0077)	(0.0077)	(0.0077)	(0.0076)	(0.0076)	(0.0077)	(0.0076)	(0.0077)												
256	0.0352	0.0358																		
384	0.0367	0.0351																		
512	0.0359	0.0355																		
768	0.0368																			
1024	0.0367																			

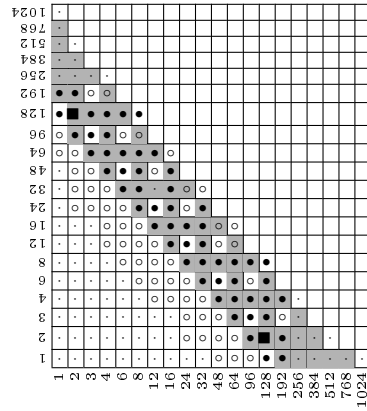


Table 26. MB2 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1.07713	53.861	35.946	26.935	17.971	13.474	8.995	6.740	4.549	3.374	2.311	1.698	1.182	(1.012)	(0.983)	(1.002)	(0.988)	(0.984)	1.052	1.962
2	53.862	26.936	17.984	13.472	9.006	6.739	4.563	3.373	2.311	1.698	1.187	(1.016)	(0.989)	(1.002)	(0.996)	(0.978)	1.051	1.907		
3	35.928	17.984	11.992	9.006	6.061	4.549	3.185	2.305	1.640	1.185	1.095	(0.985)	1.039	(0.986)	1.188	1.057				
4	26.934	13.474	8.995	6.740	4.563	3.374	2.313	1.702	1.184	(1.016)	(0.988)	(1.005)	(1.009)	(0.978)						
6	17.984	9.006	6.061	4.563	3.174	2.306	1.644	1.178	1.097	(0.982)	(0.999)	(1.002)	1.189	1.051						
8	13.472	6.740	4.549	3.373	2.313	1.698	1.184	(1.016)	(0.989)	(1.007)	(0.987)	(0.977)	1.054	1.261						
12	9.006	4.564	3.185	2.314	1.638	1.179	1.096	(0.983)	1.027	(0.981)	1.188	1.052								
16	6.740	3.374	2.312	1.698	1.182	(1.015)	(0.985)	(0.984)	(0.988)	(0.978)	1.054	1.955								
24	4.563	2.314	1.639	1.178	1.089	(0.988)	(1.020)	(0.985)	1.187	1.051										
32	3.373	1.180	1.091	(0.983)	1.020	(0.982)	(1.005)	(0.977)	1.052	1.951										
48	1.698	(1.011)	(0.976)	(0.990)	(0.986)	(0.974)	1.049	1.904												
64	1.178	(0.985)	(0.981)	(0.975)	1.050	1.961														
128	(1.011)	(0.985)	(0.984)	1.192	1.048															
256	(0.976)	(0.972)	1.049	1.956																
384	(0.982)	1.050																		
512	(0.979)	1.972																		
768	1.049																			
1024	1.956																			

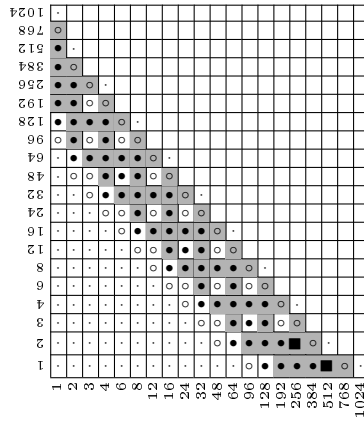


Table 27. MB2 Fermi: Without L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1.78035	9.0996	6.0946	4.6658	3.0691	2.3589	1.6518	1.1887	0.9523	0.7218	0.5246	0.2874	0.3692	(0.0536)	(0.0536)	(0.0541)	(0.0529)	(0.0533)	(0.0530)	(0.0541)
2	8.9931	4.6699	3.0737	2.3580	1.6584	1.1879	0.9486	0.7237	0.5232	0.4981	0.3707	0.3014	0.3922	(0.0535)	(0.0530)	(0.0534)	(0.0535)	(0.0538)		
3	6.0975	3.0619	2.1271	1.6371	1.1847	0.9514	0.7322	0.5247	0.6994	0.3728	0.4241	0.3236	0.4404	(0.0536)	(0.0542)	(0.0530)	(0.0535)			
4	4.6762	2.3584	1.6560	1.1888	0.9499	0.7196	0.5244	0.4985	0.3721	0.3517	0.3889	0.2900	0.3850	(0.0532)	(0.0534)	(0.0537)				
6	3.0601	1.6541	1.1839	0.9321	0.7440	0.5232	0.6162	0.3732	0.4201	0.3941	0.4103	0.3872	0.5824	(0.0535)						
8	2.3554	1.1884	0.9534	0.7195	0.5242	0.4990	0.3729	0.3528	0.3902	0.3861	0.3855	0.2789	0.3805	(0.0534)						
12	1.6530	0.9509	0.7430	0.5242	0.6974	0.3724	0.4247	0.3856	0.4416	0.3861	0.5615	0.3821								
16	1.1896	0.7191	0.5242	0.4986	0.3731	0.3524	0.3916	0.3861	0.3856	0.5048	0.3816	0.5004								
24	0.9516	0.5247	0.4984	0.3726	0.4244	0.3967	0.4422	0.3863	0.3852	0.3851	0.5632	0.3840								
32	0.7195	0.4984	0.3742	0.3522	0.3913	0.3922	0.3851	0.5049	0.3856	0.5068										
48	0.5249	0.3726	0.4246	0.3846	0.4411	0.2775	0.5672	0.3851												
64	0.2873	0.3006	0.3876	0.4408	0.3838	0.3857	0.3836	0.5019												
96	0.3727	0.3876	0.4408	0.3838																
128	(0.0547)	(0.0546)	(0.0544)	(0.0548)	(0.0538)	(0.0528)														
192	(0.0536)	(0.0538)	(0.0537)	(0.0536)																
256	(0.0537)	(0.0538)	(0.0540)	(0.0535)																
384	(0.0531)	(0.0537)																		
512	(0.0539)	(0.0545)																		
768	(0.0532)																			
1024	(0.0527)*																			

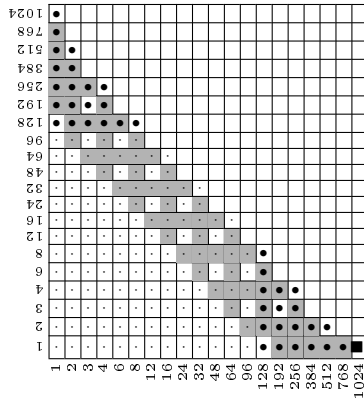


Table28. MB3 Fermi: Normal L1, size 96×96, milliseconds.

1	70.2631	35.2952	23.5898	17.7883	11.9325	9.0467	6.0887	4.6794	3.0578	2.3433	1.7569	1.3473	1.0011	0.9741	1.4558	0.9359	0.8350	0.6843*	0.512	0.374	0.256	0.192	1.208	0.96	64	48	32	24	16	12	8	6	4	3	2	1	1024				
2	35.3905	17.8093	11.9325	9.0467	6.0928	4.6808	3.0630	2.3456	1.7572	1.3475	1.0017	1.3483	1.4531	1.0868	1.4586	0.9355	0.8354	0.6843	0.512	0.374	0.256	0.192	1.208	0.96	64	48	32	24	16	12	8	6	4	3	2	1	1024				
3	23.6706	11.9410	8.0921	6.0953	4.1744	3.0500	2.3235	1.7560	1.3473	1.0017	1.4582	1.4532	1.3927	1.2688	1.6319	0.9355	0.8354	0.6843	0.512	0.374	0.256	0.192	1.208	0.96	64	48	32	24	16	12	8	6	4	3	2	1	1024				
4	17.8167	9.0815	6.0793	4.0542	3.0521	2.3421	1.7574	1.3474	1.4078	1.4527	1.4622	1.4542	1.4534	1.2061	1.4609	0.9350	0.8350	0.6843	0.512	0.374	0.256	0.192	1.208	0.96	64	48	32	24	16	12	8	6	4	3	2	1	1024				
6	11.9953	6.0460	4.1955	3.0576	2.3240	1.7565	1.7701	1.4249	1.3024	1.4539	1.3900	1.4561	1.6331	1.4482	1.4609	0.9350	0.8350	0.6843	0.512	0.374	0.256	0.192	1.208	0.96	64	48	32	24	16	12	8	6	4	3	2	1	1024				
8	8.9895	4.6705	3.0713	2.3434	1.7561	1.3478	1.4342	1.4526	1.3544	1.4514	1.4524	1.4584	1.4549	0.9721	1.4609	0.9350	0.8350	0.6843	0.512	0.374	0.256	0.192	1.208	0.96	64	48	32	24	16	12	8	6	4	3	2	1	1024				
12	6.0998	3.0530	2.3230	1.7564	1.8018	1.4069	1.3034	1.4527	1.3894	1.4548	1.4520	1.4572	1.4578		1.4609	0.9350	0.8350	0.6843	0.512	0.374	0.256	0.192	1.208	0.96	64	48	32	24	16	12	8	6	4	3	2	1	1024				
16	4.6747	2.3463	1.7564	1.3477	1.4109	1.4468	1.4698	1.4538	1.4538	1.4628	1.4500				1.4609	0.9350	0.8350	0.6843	0.512	0.374	0.256	0.192	1.208	0.96	64	48	32	24	16	12	8	6	4	3	2	1	1024				
24	3.0497	1.7587	1.3473	1.4077	1.4515	1.4669	1.4512	1.4595	1.4519	1.4642	1.4537																														1024
32	2.3452	1.3473	1.4077	1.4515	1.4669	1.4512	1.4595	1.4519	1.4642	1.4537																														1024	
48	1.7572	1.4077	1.8108	1.4537	1.3932	1.4627	1.4585	1.4512	1.4544	1.4588																														1024	
64	1.3473	1.4523	1.4519	1.4485	1.4585	1.4512	1.4544	1.4588																																1024	
96	1.4449	1.4624	1.3948	1.4530	1.6291	1.4581	1.4455	1.0856	0.9729																															1024	
128	0.9713	1.4404	1.4604	1.4567	1.6300	1.4581	1.4455	1.0856	0.9729																															1024	
256	0.0362	0.0354	0.0354	0.0354	0.0357																																			1024	
384	0.0359	0.0358	0.0358	0.0358	0.0357																																			1024	
512	0.0348	0.0348	0.0348	0.0348	0.0348																																			1024	
768	0.0358	0.0358	0.0358	0.0358	0.0358																																			1024	
1024	0.0352	0.0352	0.0352	0.0352	0.0352																																			1024	

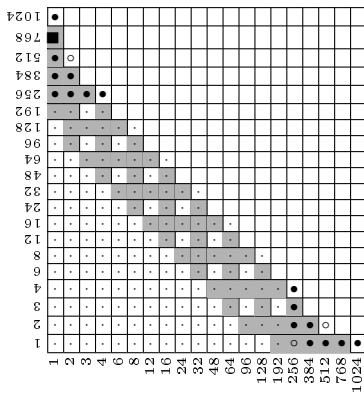


Table 29. MB3 Fermi: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	648.46	324.74	215.90	161.92	108.33	81.08	54.14	40.48	27.05	20.25	15.13	11.35	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
2	324.99	162.09	108.32	81.04	54.15	40.46	27.12	20.24	15.13	11.34	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
3	216.14	108.24	72.01	54.32	36.21	27.14	20.17	15.12	14.24	(10.69)	(10.68)	(10.67)	(10.65)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
4	162.23	81.11	54.04	40.50	27.11	20.22	15.13	11.34	(10.69)	(10.68)	(10.67)	(10.67)	(10.65)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
6	108.13	54.21	36.16	27.09	20.17	15.12	14.24	(10.69)	(10.68)	(10.66)	(10.65)	(10.67)	(10.65)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
8	80.92	40.64	27.10	20.25	15.12	11.34	(10.69)	(10.68)	(10.68)	(10.66)	(10.65)	(10.66)	(10.65)	(10.65)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
12	54.13	27.06	20.16	15.12	14.25	(10.69)	(10.68)	(10.67)	(10.68)	(10.66)	(10.65)	(10.66)	(10.65)	(10.65)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
16	40.52	20.29	15.12	14.25	(10.69)	(10.68)	(10.67)	(10.68)	(10.68)	(10.66)	(10.65)	(10.66)	(10.65)	(10.65)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
24	27.12	15.12	(10.69)	(10.68)	(10.67)	(10.68)	(10.67)	(10.68)	(10.68)	(10.66)	(10.65)	(10.66)	(10.65)	(10.65)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
32	20.27	11.34	(10.69)	(10.68)	(10.67)	(10.68)	(10.67)	(10.68)	(10.68)	(10.66)	(10.65)	(10.66)	(10.65)	(10.65)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
48	15.12	(10.69)	(10.68)	(10.67)	(10.68)	(10.67)	(10.68)	(10.68)	(10.68)	(10.66)	(10.65)	(10.66)	(10.65)	(10.65)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
64	11.34	(10.68)	(10.67)	(10.68)	(10.67)	(10.68)	(10.67)	(10.68)	(10.68)	(10.66)	(10.65)	(10.66)	(10.65)	(10.65)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
96	(10.69)	(10.67)	(10.68)	(10.66)	(10.68)	(10.65)	(10.69)	(10.70)													
128	(10.68)	(10.67)	(10.68)	(10.67)	(10.68)	(10.65)	(10.69)														
192	(10.67)	(10.67)	(10.68)	(10.67)	(10.68)	(10.65)	(10.69)														
256	(10.67)	(10.67)	(10.68)	(10.67)	(10.68)	(10.65)	(10.69)														
384	(10.68)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)														
512	(10.68)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)														
768	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)														
1024	(10.70)																				

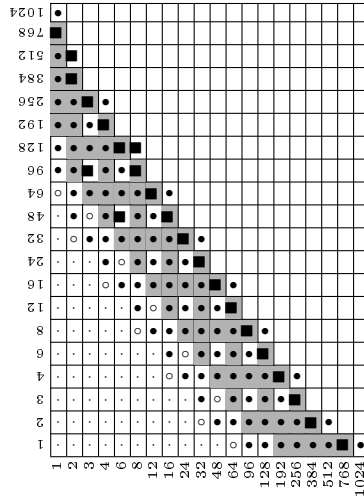


Table30. MB3 Fermi: Normal L1, size 18432×18432, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	17.7397	9.0348	6.1023	4.6821	3.0757	2.3640	1.6527	1.1906	0.9547	0.7192	0.5241	0.2878	0.3705	0.0541	0.0834	0.0544	0.0544	0.0544	0.0544	0.0544	0.0550
2	9.0356	4.6949	3.0658	2.3602	1.6542	1.1801	0.9506	0.7204	0.5248	0.4992	0.3720	0.3010	0.3927	0.0541	0.0545	0.0548	0.0547	0.0547	0.0547	0.0547	0.0550
3	6.0999	3.0700	2.1215	1.6577	1.1835	0.9528	0.7321	0.5244	0.6604	0.3725	0.4168	0.3240	0.4412	0.0543	0.0553	0.0546	0.0546	0.0546	0.0546	0.0546	0.0550
4	4.6706	2.3575	1.6549	1.1911	0.9518	0.7211	0.5244	0.5013	0.3725	0.3531	0.3898	0.2893	0.3850	0.0546	0.0553	0.0546	0.0546	0.0546	0.0546	0.0546	0.0550
6	3.0663	1.6584	1.1842	0.9515	0.7234	0.5247	0.3604	0.3732	0.4208	0.3949	0.4408	0.3876	0.5643	0.0546	0.0553	0.0546	0.0546	0.0546	0.0546	0.0546	0.0550
8	2.3596	1.1881	0.9513	0.7203	0.5239	0.4990	0.3717	0.3529	0.3967	0.3918	0.3861	0.2790	0.3805	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0550
12	1.6536	0.9574	0.7428	0.5252	0.6951	0.3730	0.4251	0.3892	0.4423	0.3870	0.3618	0.3811	0.5028	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0550
16	1.1893	0.7198	0.5240	0.4983	0.3727	0.3524	0.3895	0.3924	0.3836	0.5051	0.3813	0.5028	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0550
24	0.9529	0.5242	0.6956	0.3733	0.4267	0.3932	0.4440	0.3858	0.5003	0.3847	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0550
32	0.7191	0.4996	0.3736	0.3527	0.3892	0.3875	0.3876	0.3876	0.3849	0.3849	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0550
48	0.5247	0.3749	0.4255	0.3856	0.4442	0.3875	0.3875	0.3875	0.3849	0.3849	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0550
64	0.2874	0.3013	0.3240	0.2899	0.3856	0.2789	0.3847	0.5047	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0550
96	0.3754	0.3858	0.4413	0.3861	0.5629	0.3853	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0550
128	0.0542	0.0549	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0540	0.0550
192	0.0542	0.0547	0.0539	0.0545	0.0545	0.0545	0.0545	0.0545	0.0545	0.0545	0.0545	0.0545	0.0545	0.0545	0.0545	0.0545	0.0545	0.0545	0.0545	0.0545	0.0550
256	0.0538	0.0544	0.0538	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0550
384	0.0543	0.0545	0.0538	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0550
512	0.0540	0.0544	0.0540	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0550
768	0.0547	0.0547	0.0539	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0550
1024	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0550

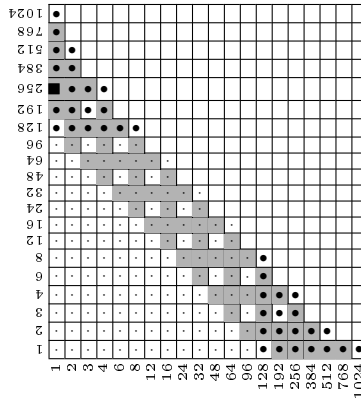


Table31. MB3 Fermi: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	70.0763	35.3904	23.7406	17.8748	11.9437	9.0235	6.0965	4.6676	3.0574	2.3468	1.7579	1.3469	1.0448	0.9743	1.4581	(0.0380)	(0.0386)	(0.0385)	(0.0380)	(0.0385)
2	35.3348	17.8214	11.9678	8.1955	6.0980	4.6244	3.0550	2.3437	1.7574	1.3473	1.0484	1.4478	1.4554	1.2688	1.4542	(0.0384)	(0.0384)	(0.0385)	(0.0380)	(0.0385)
3	23.6609	11.9665	8.0656	6.0776	4.1244	3.0484	2.3247	1.7572	1.7706	1.4080	1.7499	1.4590	1.3900	1.2688	1.6298	(0.0391)	(0.0391)	(0.0382)	(0.0380)	(0.0385)
4	17.8457	9.0219	6.0989	4.6592	3.0698	2.3516	1.7567	1.3432	1.4503	1.4463	1.4563	1.4583	1.4594	1.2098	1.4655	(0.0389)	(0.0389)	(0.0382)	(0.0380)	(0.0385)
6	11.9400	6.0860	4.1838	3.0509	2.3243	1.7567	1.7704	1.4311	1.8081	1.4580	1.3974	1.4637	1.4597	1.0883	1.4655	(0.0389)	(0.0389)	(0.0382)	(0.0380)	(0.0385)
8	9.0524	4.6466	3.0443	2.3470	1.7571	1.3479	1.4408	1.4527	1.4815	1.4431	1.4544	1.4564	1.4594	0.9756	1.4655	(0.0389)	(0.0389)	(0.0382)	(0.0380)	(0.0385)
12	6.0225	3.0558	2.3238	1.7569	1.8130	1.4284	1.5058	1.4522	1.3974	1.4628	1.4628	1.4635	1.4635	0.9756	1.4655	(0.0389)	(0.0389)	(0.0382)	(0.0380)	(0.0385)
16	4.6580	2.3443	1.7597	1.3478	1.4335	1.4522	1.4580	1.3919	1.4601	1.6300	1.4577	1.4684	1.4556	0.9756	1.4655	(0.0389)	(0.0389)	(0.0382)	(0.0380)	(0.0385)
24	3.0531	1.7574	1.4087	1.4064	1.8003	1.4578	1.4699	1.4589	1.4572	1.4572	1.4577	1.4684	1.4556	0.9756	1.4655	(0.0389)	(0.0389)	(0.0382)	(0.0380)	(0.0385)
32	2.3452	1.3474	1.4087	1.4534	1.4518	1.4528	1.4699	1.4589	1.4572	1.4572	1.4577	1.4684	1.4556	0.9756	1.4655	(0.0389)	(0.0389)	(0.0382)	(0.0380)	(0.0385)
48	1.7572	1.4114	1.7991	1.4836	1.3932	1.4572	1.4699	1.4589	1.4572	1.4572	1.4577	1.4684	1.4556	0.9756	1.4655	(0.0389)	(0.0389)	(0.0382)	(0.0380)	(0.0385)
64	1.3476	1.4567	1.4500	1.4591	1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	1.4571	0.9756	1.4655	(0.0389)	(0.0389)	(0.0382)	(0.0380)	(0.0385)
96	1.4079	1.4515	1.3933	1.4529	1.6344	1.4575	1.4647	1.4590	1.4590	1.4590	1.4590	1.4590	1.4590	0.9743	1.4655	(0.0389)	(0.0389)	(0.0382)	(0.0380)	(0.0385)
128	0.9717	1.0873	1.4496	1.6344	1.4604	1.4604	1.4604	1.4604	1.4604	1.4604	1.4604	1.4604	1.4604	0.9743	1.4655	(0.0389)	(0.0389)	(0.0382)	(0.0380)	(0.0385)
192	1.4613	1.4597	1.4597	1.4597	1.4597	1.4597	1.4597	1.4597	1.4597	1.4597	1.4597	1.4597	1.4597	0.9743	1.4655	(0.0389)	(0.0389)	(0.0382)	(0.0380)	(0.0385)
256	(0.0378)	(0.0385)	(0.0385)	(0.0378)	(0.0384)	(0.0378)	(0.0384)	(0.0378)	(0.0384)	(0.0378)	(0.0384)	(0.0378)	(0.0384)	(0.0378)	(0.0384)	(0.0378)	(0.0384)	(0.0378)	(0.0384)	(0.0378)
384	(0.0374)*	(0.0385)	(0.0385)	(0.0374)*	(0.0384)	(0.0374)*	(0.0384)	(0.0374)*	(0.0384)	(0.0374)*	(0.0384)	(0.0374)*	(0.0384)	(0.0374)*	(0.0384)	(0.0374)*	(0.0384)	(0.0374)*	(0.0384)	(0.0374)*
512	(0.0377)	(0.0385)	(0.0385)	(0.0377)	(0.0384)	(0.0377)	(0.0384)	(0.0377)	(0.0384)	(0.0377)	(0.0384)	(0.0377)	(0.0384)	(0.0377)	(0.0384)	(0.0377)	(0.0384)	(0.0377)	(0.0384)	(0.0377)
768	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)	(0.0385)
1024	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)	(0.0382)

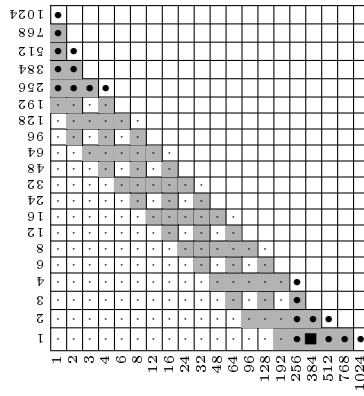


Table32. MB3 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	647.71	324.51	218.23	162.23	108.39	81.10	54.22	40.45	27.16	20.27	15.13	11.35	(10.68)	(10.68)	(10.67)	(10.67)	(10.68)	(10.68)	(10.65)*	(10.67)
2	324.68	162.15	108.25	81.34	54.13	40.53	27.05	20.24	15.13	11.34	(10.69)	(10.68)	(10.68)	(10.68)	(10.67)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
3	218.30	108.23	72.30	54.32	36.12	27.14	20.17	15.12	14.24	(10.69)	(10.67)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
4	161.88	81.09	58.99	40.57	27.10	20.27	15.12	11.34	(10.69)	(10.68)	(10.67)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
6	108.29	58.97	38.24	27.12	20.17	15.12	14.24	(10.69)	(10.68)	(10.67)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
8	81.01	40.47	27.07	20.25	15.12	11.34	(10.69)	(10.68)	(10.68)	(10.67)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
12	54.09	27.07	20.16	15.12	14.25	(10.69)	(10.68)	(10.67)	(10.68)	(10.67)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
16	40.53	20.26	15.12	11.34	(10.69)	(10.68)	(10.67)	(10.68)	(10.68)	(10.67)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
24	27.11	15.12	14.25	(10.69)	(10.68)	(10.67)	(10.68)	(10.67)	(10.68)	(10.67)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
32	20.29	11.34	(10.69)	(10.68)	(10.67)	(10.68)	(10.67)	(10.68)	(10.68)	(10.67)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
48	15.12	(10.69)	(10.68)	(10.67)	(10.68)	(10.67)	(10.68)	(10.67)	(10.68)	(10.67)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
64	11.34	(10.68)	(10.67)	(10.66)	(10.67)	(10.68)	(10.67)	(10.68)	(10.67)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
96	(10.69)	(10.67)	(10.66)	(10.67)	(10.68)	(10.67)	(10.68)	(10.67)	(10.68)	(10.67)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
128	(10.68)	(10.67)	(10.66)	(10.67)	(10.68)	(10.67)	(10.68)	(10.67)	(10.68)	(10.67)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
192	(10.67)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
256	(10.67)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
384	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
512	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
768	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
1024	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)

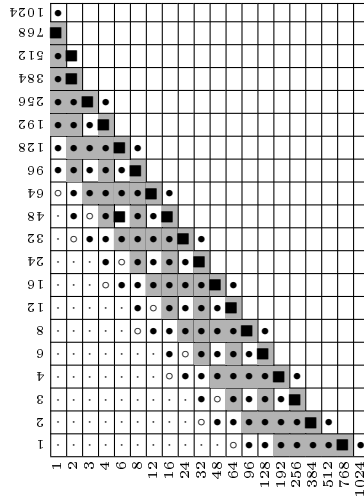


Table33. MB3 Fermi: Increased L1, size 18432×18432, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	17.7303	9.0367	6.1018	4.6839	3.0742	2.3612	1.6502	1.1896	0.9513	0.7193	0.5238	0.2864	0.3704	0.0534	0.0539	0.0536	0.0549	0.0536	0.0538	0.0525*
2	9.0561	4.6747	3.0694	2.3575	1.6552	1.1940	0.9520	0.7192	0.5239	0.4980	0.3704	0.3004	0.3911	0.0538	0.0533	0.0544	0.0532	0.0541		
3	6.1042	3.0770	2.1238	1.6516	1.1860	0.9220	0.7313	0.5241	0.6296	0.3740	0.4156	0.3238	0.4405	0.0528	0.0541					
4	4.6810	2.3594	1.6555	1.1900	0.9506	0.7225	0.5244	0.4983	0.3729	0.3843	0.3843	0.2894	0.3848	0.0536	0.0536					
6	3.0762	1.6537	1.1833	0.9495	0.7328	0.5244	0.7001	0.3750	0.4243	0.3887	0.4397	0.3836	0.5631	0.0536	0.0539					
8	2.3551	1.1897	0.9221	0.7194	0.5232	0.4982	0.3740	0.3556	0.3847	0.3857	0.3870	0.2785	0.3799	0.0542						
12	1.6539	0.9517	0.7426	0.5242	0.6974	0.3711	0.4256	0.3852	0.4412	0.3856	0.5628	0.3815								
16	1.1881	0.7196	0.5244	0.4993	0.3725	0.3526	0.3971	0.3913	0.3863	0.5040	0.3818	0.5016								
24	0.9516	0.5243	0.6569	0.3725	0.4257	0.3967	0.4408	0.3848	0.5606	0.3892										
32	0.7182	0.4987	0.3716	0.3525	0.3879	0.3892	0.3867	0.5106	0.3826	0.5046										
48	0.5244	0.3712	0.4255	0.3964	0.4406	0.3852	0.5603	0.3847												
64	0.2862	0.3006	0.3242	0.2897	0.3889	0.2788	0.3840	0.5045												
96	0.3740	0.3848	0.4409	0.3847	0.5627	0.3845														
128	0.0543	0.0533	0.0528	0.0542	0.0539	0.0539														
192	0.0537	0.0538	0.0541	0.0537																
256	0.0540	0.0535																		
384	0.0532	0.0525																		
512	0.0530																			
768	0.0527																			
1024	0.0533																			

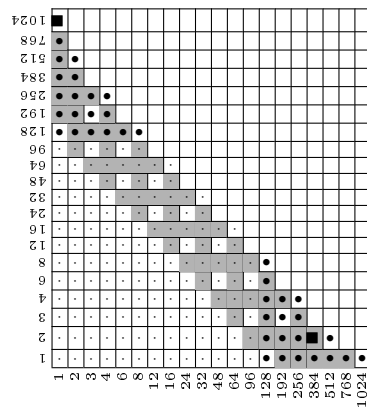


Table 34. MB3 Fermi: Without L1, size 96×96, milliseconds.

1	70.2416	35.4469	23.6953	17.8984	11.9688	9.0035	6.0878	4.6764	3.0612	2.3398	1.7579	1.3463	1.011	0.721	1.4546	(0.0354)	(0.0355)	0.0369	[0.0346]	*	0.0366	1.024
2	35.2804	17.7725	11.9560	9.1124	6.0829	4.3675	3.0540	2.3489	1.7567	1.3476	1.0174	1.4533	1.4537	1.4544	1.4516	0.0372	(0.0361)	(0.0356)				768
3	23.6668	11.9743	8.0659	6.0768	4.1494	3.0629	2.3235	1.7560	1.3486	1.0035	1.8067	1.4582	3.853	1.0935	1.4516	0.0372	(0.0361)	(0.0356)				512
4	17.7893	9.0213	6.1748	4.0762	3.0530	2.3425	1.7563	1.3474	1.0089	1.4534	1.4574	1.4523	1.4496	1.4517	1.4620	0.0339	(0.0355)					384
6	11.9684	6.0867	4.1837	3.0548	2.3240	1.7568	1.3441	1.7308	1.4575	1.3008	1.4544	1.4523	1.4496	1.4517	1.4620	0.0339	(0.0355)					256
8	9.0926	4.6740	3.0879	2.3417	1.7560	1.3476	1.4072	1.4577	1.4614	1.4509	1.4540	1.4554	1.4572	1.4686								192
12	6.0963	3.0606	2.3234	1.7571	1.7241	1.2276	1.8012	1.4811	1.3968	1.4508	1.6307	1.4572										128
16	4.6684	2.3515	1.7562	1.3472	1.4068	1.4513	1.4573	1.3894	1.4825	1.6262	1.4516											96
24	3.0657	1.7577	1.7880	1.4084	1.8083	1.4576	1.3894	1.4825	1.6262	1.4516												64
32	2.3468	1.3473	1.4333	1.4593	1.4810	1.4509	1.4597	1.4613	1.4642	1.4569												48
48	1.7565	1.4073	1.8197	1.4599	1.3926	1.4614	1.6271	1.4550														32
64	1.3480	1.4499	1.4578	1.4566	1.4546	1.4512	1.4621	1.4576														24
96	1.4069	1.4580	1.3948	1.4615	1.6202	1.4544																16
128	0.9767	0.9955	1.0896	1.4472	1.0868	0.9755																12
192	1.4567	1.4614	1.6292	1.4622																		8
256	(0.0346)	(0.0348)	(0.0357)	(0.0355)																		6
384	(0.0354)	(0.0356)																				4
512	(0.0356)	(0.0358)																				3
768	(0.0360)																					2
1024	(0.0360)																					1

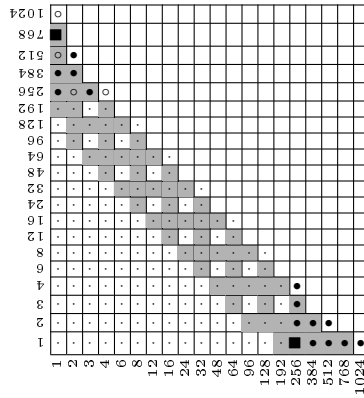


Table35. MB3 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	647.71	323.89	216.39	161.85	108.24	81.26	54.17	40.48	27.15	20.32	15.13	11.35	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
2	323.93	162.32	108.31	81.10	53.97	40.51	27.12	20.28	15.13	11.34	(10.68)	(10.68)	(10.67)	(10.67)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
3	216.37	108.19	72.26	54.13	36.17	27.15	20.17	15.12	14.24	(10.69)	(10.68)	(10.68)	(10.66)	(10.67)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
4	161.88	81.33	54.22	40.46	27.02	20.23	15.12	11.34	(10.69)	(10.68)	(10.68)	(10.67)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
6	108.32	54.05	36.16	27.16	20.17	15.12	14.24	(10.69)	(10.68)	(10.67)	(10.67)	(10.67)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)
8	81.21	40.68	27.06	20.27	15.12	11.34	(10.68)	(10.68)	(10.67)	(10.67)	(10.68)	(10.68)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)
12	54.10	27.06	20.16	15.12	14.25	(10.69)	(10.68)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)
16	40.46	20.29	15.12	11.34	(10.69)	(10.68)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)
24	27.17	15.12	14.25	(10.69)	(10.68)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)
32	20.32	11.34	(10.69)	(10.68)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)
48	15.12	(10.69)	(10.68)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)
64	11.34	(10.68)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)
96	(10.68)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)
128	(10.68)	(10.67)	(10.66)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.68)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)
192	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)
256	(10.66)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)
384	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)
512	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)
768	(10.65)	(10.70)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)	(10.65)
1024	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)	(10.70)

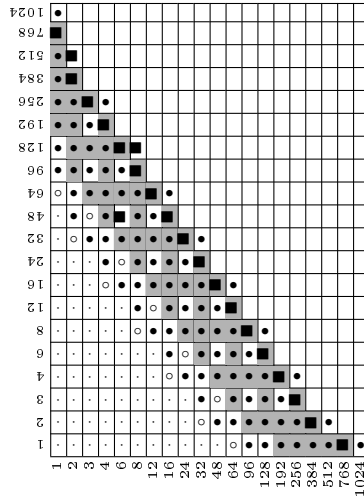


Table36. MB3 Fermi: Without L1, size 18432×18432, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	17.7302	8.9459	6.0258	4.6228	3.0476	2.3396	1.6450	1.1896	0.9459	0.7164	0.5171	0.2877	0.3706	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0542
2	8.9847	4.6148	3.0452	2.3381	1.6362	1.1983	0.9410	0.7181	0.5168	0.4894	0.3710	0.3013	0.3981	0.0529	0.0533	0.0533	0.0545	0.0545	0.0540	0.0540	0.0542
3	6.0298	3.0465	2.1066	1.6354	1.1832	0.9306	0.7339	0.5154	0.6980	0.3734	0.4140	0.3216	0.4464	0.0547	0.0533	0.0542	0.0545	0.0545	0.0540	0.0540	0.0542
4	4.6157	2.3389	1.6423	1.1877	0.9448	0.7190	0.5156	0.4895	0.3734	0.3528	0.3094	0.2892	0.3888	0.0533	0.0533	0.0533	0.0545	0.0545	0.0540	0.0540	0.0542
6	3.0569	1.6403	1.1783	0.9446	0.7336	0.5154	0.3992	0.3732	0.4153	0.3867	0.4501	0.2815	0.5543	0.0533	0.0533	0.0533	0.0545	0.0545	0.0540	0.0540	0.0542
8	2.3423	1.1898	0.9474	0.7183	0.5163	0.4893	0.3733	0.3519	0.3862	0.3855	0.3812	0.2781	0.3823	0.0533	0.0533	0.0533	0.0545	0.0545	0.0540	0.0540	0.0542
12	1.6416	0.9480	0.7331	0.5167	0.6998	0.3734	0.4169	0.3864	0.4452	0.3884	0.5592	0.3828	0.3828	0.0533	0.0533	0.0533	0.0545	0.0545	0.0540	0.0540	0.0542
16	1.1941	0.7242	0.5164	0.4887	0.3739	0.3534	0.3889	0.3851	0.3852	0.5069	0.3888	0.5044	0.3828	0.0533	0.0533	0.0533	0.0545	0.0545	0.0540	0.0540	0.0542
24	0.9488	0.5167	0.7008	0.3736	0.4156	0.3916	0.4448	0.3851	0.5624	0.3848	0.3888	0.5044	0.3828	0.0533	0.0533	0.0533	0.0545	0.0545	0.0540	0.0540	0.0542
32	0.7237	0.4900	0.3737	0.3531	0.3919	0.3850	0.5590	0.5015	0.3853	0.5051	0.3888	0.5044	0.3828	0.0533	0.0533	0.0533	0.0545	0.0545	0.0540	0.0540	0.0542
48	0.5178	0.3731	0.4167	0.3923	0.4475	0.3850	0.5590	0.3844	0.3887	0.2785	0.3888	0.5044	0.3828	0.0533	0.0533	0.0533	0.0545	0.0545	0.0540	0.0540	0.0542
64	0.2873	0.3016	0.3213	0.2893	0.3887	0.2785	0.3888	0.3844	0.3887	0.2785	0.3888	0.5044	0.3828	0.0533	0.0533	0.0533	0.0545	0.0545	0.0540	0.0540	0.0542
96	0.3765	0.3881	0.4507	0.3885	0.5623	0.3844	0.3888	0.3844	0.3887	0.2785	0.3888	0.5044	0.3828	0.0533	0.0533	0.0533	0.0545	0.0545	0.0540	0.0540	0.0542
128	0.0540	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
192	0.0537	0.0544	0.0539	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
256	0.0534	0.0530	0.0540	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
384	0.0540	0.0547	0.0540	0.0545	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
512	0.0533	0.0539	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
768	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536
1024	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536	0.0536

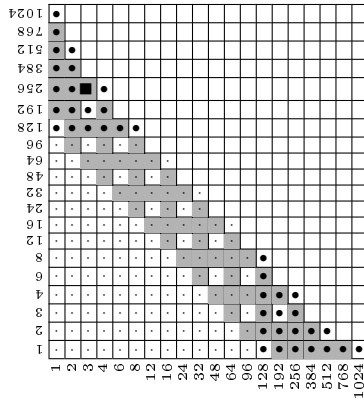


Table37. MB4 Fermi: Normal L1, size 96×96, milliseconds.

1	70.1015	35.2808	23.5466	17.7279	11.9063	8.9518	6.0139	4.5816	3.0377	2.3241	1.7624	1.3484	1.059	0.9771	1.4548	0.0366	0.0369	1.024
2	35.2172	17.6560	11.9491	8.9546	6.0010	4.5922	3.0326	2.3280	1.7629	1.3482	1.055	1.4524	1.4546	0.9912	1.4526	0.0356	0.0368	1.024
3	23.5719	11.8964	7.9998	6.0107	4.0997	3.0452	2.3114	1.7615	1.7693	1.4076	1.7430	1.4554	1.3860	1.0984	1.4523	0.0356	0.0357	1.024
4	17.7839	8.9828	6.0077	4.0988	3.0286	2.3273	1.7621	1.7481	1.7100	1.4540	1.4518	1.4527	1.4589	1.2048	1.4552	0.0356	0.0357	1.024
6	11.9596	6.0208	4.1203	3.0394	2.3115	1.7622	1.7668	1.4098	1.5957	1.4548	1.3889	1.4513	1.6313	1.0829	1.4552	0.0356	0.0357	1.024
8	8.9847	4.5946	3.0332	2.3173	1.7621	1.7621	1.7621	1.4097	1.4486	1.4568	1.4504	1.4521	1.4602	0.9763	1.4552	0.0356	0.0357	1.024
12	6.0191	3.0411	2.3111	1.7621	1.7621	1.7621	1.4097	1.4097	1.4486	1.4568	1.4504	1.4521	1.4602	0.9763	1.4552	0.0356	0.0357	1.024
16	4.5922	2.3138	1.7628	1.7628	1.4284	1.4547	1.4592	1.4499	1.4499	1.4574	1.4515	1.4598	1.4598	1.4598	1.4598	1.4598	1.4598	1.4598
24	3.0325	1.7636	1.7701	1.4074	1.8021	1.4590	1.3881	1.4499	1.4499	1.4574	1.4515	1.4598	1.4598	1.4598	1.4598	1.4598	1.4598	1.4598
32	2.3284	1.3498	1.4084	1.4486	1.4486	1.4494	1.4566	1.4566	1.4566	1.4566	1.4566	1.4566	1.4566	1.4566	1.4566	1.4566	1.4566	1.4566
48	1.7666	1.4347	1.7992	1.4486	1.3851	1.4587	1.4587	1.4587	1.4587	1.4587	1.4587	1.4587	1.4587	1.4587	1.4587	1.4587	1.4587	1.4587
64	1.3522	1.4500	1.4517	1.4458	1.4494	1.4400	1.4584	1.4611	1.4584	1.4611	1.4584	1.4611	1.4584	1.4611	1.4584	1.4611	1.4584	1.4611
96	1.4122	1.4370	1.3899	1.4517	1.6276	1.4539	1.4539	1.4539	1.4539	1.4539	1.4539	1.4539	1.4539	1.4539	1.4539	1.4539	1.4539	1.4539
128	0.9681	1.4370	1.4440	1.4621	1.4621	1.4621	1.4621	1.4621	1.4621	1.4621	1.4621	1.4621	1.4621	1.4621	1.4621	1.4621	1.4621	1.4621
192	1.4522	1.4528	1.4528	1.4528	1.4528	1.4528	1.4528	1.4528	1.4528	1.4528	1.4528	1.4528	1.4528	1.4528	1.4528	1.4528	1.4528	1.4528
256	0.0357	0.0363	0.0363	0.0349	0.0349	0.0349	0.0349	0.0349	0.0349	0.0349	0.0349	0.0349	0.0349	0.0349	0.0349	0.0349	0.0349	0.0349
384	0.0364	0.0361	0.0361	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357
512	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359
768	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359
1024	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353

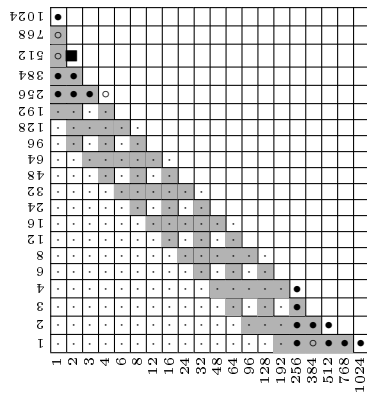


Table38. MB4 Fermi: Normal L1, size 192×192, milliseconds.

1	71.825	35.947	23.914	17.988	11.995	8.995	5.970	4.496	2.999	2.238	1.684	1.263	1.184	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)
2	35.877	17.949	11.991	8.980	5.990	4.401	2.999	2.245	1.684	1.262	(1.188)	(1.189)	(1.184)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)
3	33.989	11.964	8.000	5.994	3.997	2.990	2.246	1.683	1.583	(1.188)	(1.189)	(1.184)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)
4	17.946	8.982	5.987	4.501	2.993	2.248	1.683	1.262	(1.188)	(1.189)	(1.184)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)
6	12.001	5.993	3.991	2.995	2.246	1.683	1.583	(1.188)	(1.189)	(1.184)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)
8	8.992	4.490	2.997	2.247	1.683	1.262	(1.188)	(1.189)	(1.184)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)
12	6.005	2.990	2.245	1.683	1.584	(1.188)	(1.189)	(1.184)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)	(1.205)
16	4.486	2.246	1.684	1.263	(1.188)	(1.189)	(1.184)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)	(1.205)	(1.206)
24	3.005	1.686	1.583	(1.188)	(1.189)	1.314	(1.188)	(1.189)	(1.184)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)
32	2.249	1.264	(1.188)	(1.189)	(1.184)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)	(1.205)	(1.206)	(1.207)	(1.208)
48	1.687	(1.188)	(1.189)	(1.184)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)	(1.205)	(1.206)	(1.207)	(1.208)	(1.209)
64	1.266	(1.184)	(1.184)	(1.180)	(1.180)	(1.185)	(1.185)	(1.184)	(1.185)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)
96	(1.188)	(1.181)	(1.181)	(1.179)	(1.179)	(1.185)	(1.185)	(1.184)	(1.185)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)
128	(1.184)	(1.170)	(1.170)	(1.185)	(1.185)	(1.184)	(1.185)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)	(1.205)	(1.206)
192	(1.182)	(1.182)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)	(1.205)
256	(1.183)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)	(1.205)
384	(1.183)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)	(1.205)
512	(1.183)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.186)	(1.187)	(1.188)	(1.189)	(1.190)	(1.191)	(1.192)	(1.193)	(1.194)	(1.195)	(1.196)	(1.197)	(1.198)	(1.199)	(1.200)	(1.201)	(1.202)	(1.203)	(1.204)	(1.205)
768	(1.187)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)	(1.194)
1024	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)	(1.200)

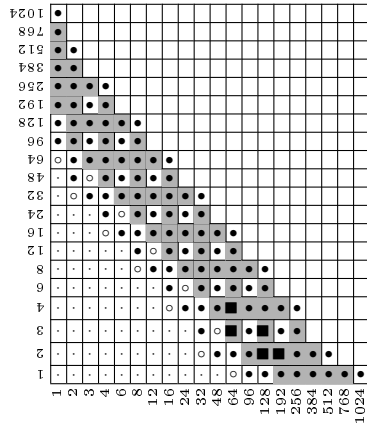


Table39. MB4 Fermi: Normal L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	17.7189	8.9669	6.0220	4.6087	3.0510	2.3436	1.6397	1.1853	0.9397	0.7229	0.5159	0.2866	0.3702	(0.0545)	(0.0542)	(0.0537)	(0.0545)	(0.0540)	(0.0543)	(0.0540)	(0.0540)
2	9.0002	4.6082	3.0414	2.3430	1.6378	1.1927	0.9423	0.7185	0.5158	0.4890	0.3709	0.3001	0.3897	(0.0545)	(0.0542)	(0.0546)	(0.0541)	(0.0543)	(0.0535)	(0.0540)	(0.0540)
3	6.0044	3.0474	2.1042	1.6399	1.1756	0.9450	0.7335	0.5158	0.6992	0.3738	0.4221	0.3219	0.4444	(0.0540)	(0.0538)	(0.0544)	(0.0541)	(0.0543)	(0.0535)	(0.0540)	(0.0540)
4	4.6144	2.3429	1.6419	1.1901	0.9469	0.7164	0.5165	0.4907	0.3734	0.3530	0.3907	0.2891	0.3833	(0.0540)	(0.0542)	(0.0544)	(0.0541)	(0.0543)	(0.0535)	(0.0540)	(0.0540)
6	3.0572	1.6436	1.1738	0.9487	0.7332	0.5157	0.6994	0.3752	0.4157	0.3870	0.4489	0.2786	0.5654	(0.0540)	(0.0538)	(0.0543)	(0.0541)	(0.0543)	(0.0535)	(0.0540)	(0.0540)
8	2.3391	1.1942	0.9470	0.7237	0.5167	0.4908	0.3739	0.3532	0.3912	0.3853	0.3887	0.2786	0.3828	(0.0535)*	(0.0535)*	(0.0543)	(0.0541)	(0.0543)	(0.0535)	(0.0540)	(0.0540)
12	1.6388	0.9428	0.7336	0.5171	0.6999	0.3692	0.4162	0.3876	0.4403	0.3851	0.5674	0.3824	0.3828	(0.0535)*	(0.0535)*	(0.0543)	(0.0541)	(0.0543)	(0.0535)	(0.0540)	(0.0540)
16	1.1893	0.7213	0.5171	0.4898	0.3720	0.3541	0.3913	0.3886	0.3879	0.5051	0.3825	0.5061	0.3824	(0.0535)*	(0.0535)*	(0.0543)	(0.0541)	(0.0543)	(0.0535)	(0.0540)	(0.0540)
24	0.9464	0.5170	0.6337	0.3734	0.4191	0.3880	0.4489	0.3884	0.5033	0.3836	0.3825	0.5061	0.3824	(0.0535)*	(0.0535)*	(0.0543)	(0.0541)	(0.0543)	(0.0535)	(0.0540)	(0.0540)
32	0.7215	0.4903	0.3751	0.3523	0.3900	0.3884	0.3848	0.5033	0.3838	0.3838	0.5052	0.3824	0.3824	(0.0535)*	(0.0535)*	(0.0543)	(0.0541)	(0.0543)	(0.0535)	(0.0540)	(0.0540)
48	0.5173	0.3734	0.4170	0.3826	0.4445	0.3894	0.5595	0.3844	0.3838	0.3838	0.5052	0.3824	0.3824	(0.0535)*	(0.0535)*	(0.0543)	(0.0541)	(0.0543)	(0.0535)	(0.0540)	(0.0540)
64	0.2894	0.3016	0.3216	0.2905	0.3889	0.2776	0.3848	0.5062	0.3838	0.3838	0.5052	0.3824	0.3824	(0.0535)*	(0.0535)*	(0.0543)	(0.0541)	(0.0543)	(0.0535)	(0.0540)	(0.0540)
96	0.3749	0.3923	0.4406	0.3848	0.5655	0.3849	0.3848	0.5062	0.3838	0.3838	0.5052	0.3824	0.3824	(0.0535)*	(0.0535)*	(0.0543)	(0.0541)	(0.0543)	(0.0535)	(0.0540)	(0.0540)
128	(0.0543)	(0.0542)	(0.0542)	(0.0538)	(0.0538)	(0.0537)															
192	(0.0548)	(0.0540)	(0.0542)	(0.0535)	(0.0557)																
256	(0.0541)	(0.0544)	(0.0547)	(0.0545)																	
384	(0.0547)	(0.0538)																			
512	(0.0555)	(0.0551)																			
768	(0.0548)																				
1024	(0.0544)																				

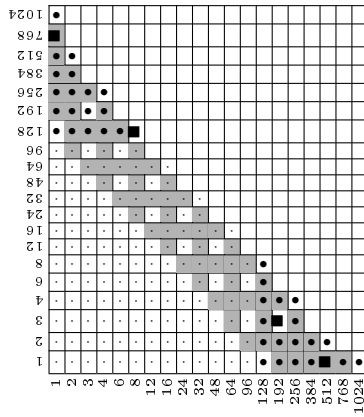


Table40. MB4 Fermi: Increased L1, size 96×96, milliseconds.

1	70.2615	35.1854	23.5142	17.7029	11.9206	8.9434	6.0105	4.5812	3.0311	2.3262	1.7628	1.3452	1.0447	0.9760	1.4543	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	768	512	384	256	192	1024
2	35.2089	17.7694	11.9068	8.9414	6.0048	4.5864	3.0343	2.3242	1.7630	1.3491	1.0481	0.8000	1.4600	1.0919	1.4625	102	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385
3	23.5590	11.9066	8.0186	6.0132	4.1299	3.0513	2.3119	1.7629	1.7685	1.4097	1.3080	1.4516	1.3898	1.0944	1.6308	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376
4	17.7810	8.9734	6.0163	4.5933	3.0369	2.3278	1.7622	1.3489	1.4086	1.4538	1.3588	1.4529	1.4528	1.2949	1.4584	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376
6	11.9183	6.0151	4.1011	3.0532	2.3121	1.7620	1.7717	1.4097	1.8033	1.4544	1.3879	1.4564	1.6356	1.4446	1.4584	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365
8	8.9742	4.5950	3.0492	2.3283	1.7620	1.3487	1.4493	1.4533	1.4571	1.4508	1.4568	1.4546	1.4895	0.9734	1.4584	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365
12	6.0071	3.0443	2.3109	1.7630	1.7630	1.4487	1.8033	1.4501	1.3873	1.4605	1.4608	1.4560	1.4604	1.4604	1.4604	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365
16	4.5982	2.3288	1.7635	1.3491	1.4128	1.4492	1.4487	1.4516	1.4590	1.4586	1.4608	1.4604	1.4604	1.4604	1.4604	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365
24	3.0382	1.7630	1.7729	1.4104	1.8045	1.4491	1.3862	1.4587	1.4590	1.4590	1.4647	1.4647	1.4647	1.4647	1.4647	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365
32	2.3359	1.3508	1.4451	1.4526	1.4547	1.4587	1.4548	1.4503	1.4576	1.4576	1.4576	1.4576	1.4576	1.4576	1.4576	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365
48	1.7667	1.4080	1.8067	1.4500	1.3891	1.4566	1.6242	1.4503	1.4576	1.4576	1.4576	1.4576	1.4576	1.4576	1.4576	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365
64	1.3525	1.4532	1.4805	1.4500	1.4500	1.4565	1.4504	1.4590	1.4608	1.4608	1.4608	1.4608	1.4608	1.4608	1.4608	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365
96	1.4123	1.4446	1.3897	1.4471	1.6271	1.4615	1.4590	1.4608	1.4608	1.4608	1.4608	1.4608	1.4608	1.4608	1.4608	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365
128	0.9692	1.4422	1.4395	1.3897	1.4476	1.6272	1.4615	1.4608	1.4608	1.4608	1.4608	1.4608	1.4608	1.4608	1.4608	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365
192	1.4661	1.4538	1.6259	1.4577	1.4577	1.4577	1.4577	1.4577	1.4577	1.4577	1.4577	1.4577	1.4577	1.4577	1.4577	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0365	0.0365	0.0365	0.0365	0.0365	0.0365
256	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374
384	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374
512	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0374	0.0374	0.0374	0.0374	0.0374	0.0374
768	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370
1024	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	192	128	96	64	48	32	24	16	12	8	6	4	3	2	1	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375

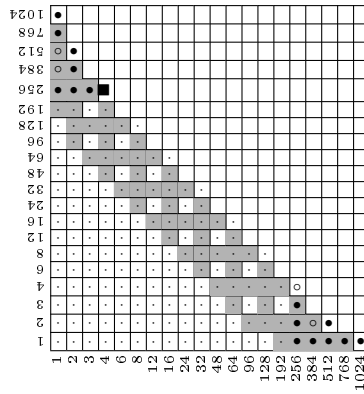


Table41. MB4 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	72.033	35.887	23.983	17.970	11.992	8.984	5.991	4.500	2.996	2.248	1.684	1.263	(1.188)	(1.186)	(1.184)	(1.184)	(1.187)	(1.187)	(1.182)	(1.187)	(1.187)
2	35.903	17.997	11.998	8.999	5.990	4.493	3.001	2.248	1.684	1.262	(1.188)	(1.186)	(1.184)	(1.184)	(1.187)	(1.188)	(1.182)	(1.187)	(1.187)	(1.182)	(1.187)
3	23.962	11.946	7.983	5.997	3.994	2.995	2.246	1.683	1.684	(1.188)	(1.186)	(1.184)	(1.184)	(1.187)	(1.186)	(1.188)	(1.182)	(1.187)	(1.187)	(1.182)	(1.187)
4	18.011	8.988	5.973	4.496	2.996	2.250	1.683	1.262	(1.188)	(1.186)	(1.184)	(1.184)	(1.187)	(1.187)	(1.186)	(1.188)	(1.182)	(1.187)	(1.187)	(1.182)	(1.187)
6	11.996	5.996	3.992	2.991	2.246	1.683	1.583	(1.188)	(1.186)	(1.184)	(1.185)	(1.157)	(1.186)	(1.187)	(1.182)	(1.188)	(1.182)	(1.187)	(1.187)	(1.182)	(1.187)
8	8.986	4.500	2.996	2.250	1.683	1.262	(1.188)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.189)							
12	6.006	2.999	2.245	1.683	1.584	(1.188)	(1.185)	(1.184)	(1.185)	(1.186)	(1.186)	(1.187)	(1.187)	(1.189)							
16	4.495	2.251	1.684	(1.184)	(1.183)	(1.185)	(1.182)	(1.183)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.189)							
24	2.988	1.264	(1.188)	(1.184)	(1.182)	(1.183)	(1.185)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)							
32	1.687	(1.187)	(1.187)	(1.182)	(1.182)	(1.185)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)							
48	1.266	(1.184)	(1.180)	(1.180)	(1.181)	(1.185)	(1.185)	(1.184)	(1.184)	(1.190)											
96	(1.189)	(1.181)	(1.184)	(1.184)	(1.185)	(1.184)															
128	(1.184)	(1.179)	(1.179)	(1.181)	(1.185)																
192	(1.182)	(1.182)	(1.185)	(1.185)																	
256	(1.183)	(1.185)																			
384	(1.183)	(1.185)																			
512	(1.187)	(1.195)																			
768	(1.187)																				
1024	(1.197)																				

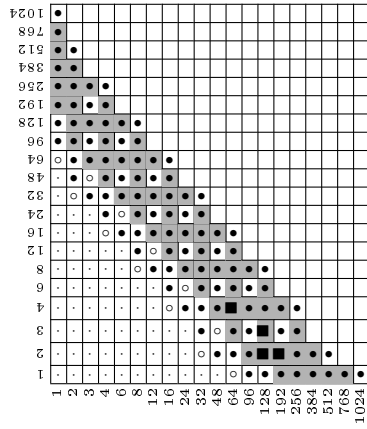


Table42. MB4 Fermi: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	17.7740	9.0007	6.0258	4.5969	3.0509	2.3433	1.6356	1.1900	0.9472	0.7170	0.5162	0.2866	0.3678	0.0544	0.0535	0.0532	0.0542	0.0530	0.0532	0.0529
2	8.9068	4.5959	3.0537	2.3382	1.6351	1.1847	0.9457	0.7158	0.5161	0.4888	0.3606	0.3012	0.3908	0.0530	0.0532	0.0534	0.0534	0.0520		
3	6.0265	3.0446	2.1028	1.6343	1.1770	0.9455	0.7337	0.5160	0.6283	0.3733	0.4107	0.3910	0.4422	0.0541	0.0532	0.0534				
4	4.6159	2.3376	1.6418	1.1906	0.9449	0.7164	0.5151	0.4857	0.3730	0.3878	0.3898	0.2898	0.3825	0.0536	0.0529	0.0534				
6	3.0473	1.6413	1.1788	0.9458	0.7330	0.5160	0.6987	0.3748	0.4121	0.3878	0.4443	0.3817	0.5539	0.0536	0.0528	0.0534				
8	2.3343	1.1882	0.9432	0.7153	0.5169	0.4896	0.3740	0.3532	0.3880	0.3829	0.3884	0.3827	0.3820	0.0539						
12	1.6396	0.9488	0.7331	0.5164	0.6615	0.3734	0.4168	0.3876	0.4477	0.3884	0.5579	0.3819								
16	1.1907	0.7204	0.5166	0.4896	0.3740	0.3529	0.3841	0.3856	0.3883	0.5050	0.3828	0.5060								
24	0.9471	0.5163	0.7005	0.3731	0.4165	0.3868	0.4452	0.3817	0.5589	0.3843										
32	0.7212	0.4900	0.3745	0.3522	0.3876	0.3844	0.3828	0.5586	0.3844											
48	0.5165	0.3760	0.4159	0.3860	0.4451	0.3828	0.2776	0.5586	0.3844											
64	0.2878	0.3018	0.3224	0.2895	0.3826	0.2776	0.3838	0.5046												
96	0.3743	0.3869	0.4481	0.3883	0.5610	0.3849														
128	0.0529	0.0532	0.0538	0.0527	0.0533	0.0532														
192	0.0535	0.0532	0.0539	0.0539	0.0539															
256	0.0535	0.0540	0.0536	0.0542																
384	0.0534	0.0533	0.0536	0.0533																
512	0.0535	0.0533																		
768	0.0535																			
1024	0.0540																			

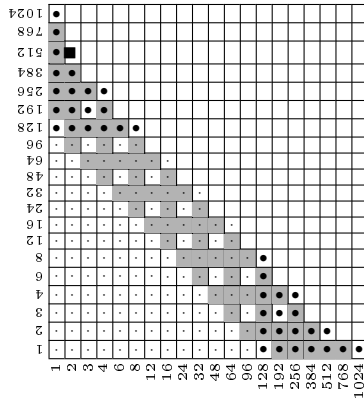


Table 43. MB4 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	70.1507	35.1688	23.5358	17.6844	11.8615	8.9537	5.9963	4.5962	3.0317	2.3302	1.7624	1.3481	1.058	0.9750	1.4581						
2	35.1740	17.7665	11.8901	8.9684	6.0100	4.5938	3.0271	2.3268	1.7623	1.3482	1.0321	0.7495	1.4550	1.0982	1.4499						
3	23.6212	11.9328	7.9791	6.0057	4.1243	3.0611	2.3114	1.7618	1.7701	1.4276	1.8121	1.4582	1.3853	1.2748	1.6230						
4	17.7039	8.9573	6.0088	4.0974	3.0402	2.3212	1.7618	1.3486	1.4334	1.4511	1.3554	1.4488	1.4665	1.2046	1.4573						
6	11.8221	6.0044	4.1213	3.0330	2.3110	1.7631	1.3488	1.4091	1.7428	1.4517	1.3886	1.4571	1.6326	1.0884							
8	8.9868	4.5817	3.0340	2.3252	1.7621	1.3488	1.4381	1.4470	1.4545	1.4800	1.4508	1.4500	1.4874	0.9739							
12	6.0322	3.0335	2.3113	1.7625	1.8103	1.4075	1.7927	1.4515	1.3004	1.4800	1.6308	1.4582									
16	4.5845	2.3301	1.7629	1.3489	1.7949	1.4472	1.4469	1.4568	1.4570	1.4510	1.4548	1.4529									
24	3.0427	1.7636	1.7709	1.4104	1.7949	1.4468	1.4468	1.4573	1.4571	1.4571	1.4585										
32	2.3306	1.3500	1.4098	1.4478	1.4468	1.4468	1.4604	1.4563	1.4598												
48	1.7623	1.4071	1.8067	1.4476	1.3877	1.4518	1.4499	1.4486	1.4824												
64	1.3525	1.4544	1.4519	1.4518	1.4540	1.4540	1.4523	1.4677													
96	1.4096	1.4472	1.3875	1.4394	1.0829	1.1997	1.0904	0.9772													
128	0.9735	1.4560	1.4561	1.4570																	
192	0.6340*	0.0370	0.0360																		
256	0.0361																				
384	0.0358																				
512	(0.0353)																				
768																					
1024	(0.0350)																				

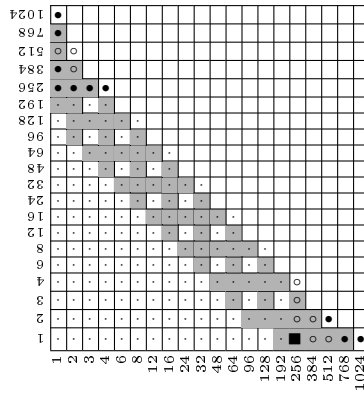


Table44. MB4 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	71.839	35.961	24.009	17.934	11.983	8.992	5.994	4.494	2.988	2.249	1.684	1.263	(1.188)	(1.186)	(1.184)	(1.184)	(1.184)	(1.187)	(1.188)	(1.182)	(1.186)
2	36.015	17.972	11.991	8.999	5.999	4.487	2.993	2.249	1.684	1.262	(1.188)	(1.186)	(1.184)	(1.184)	(1.187)	(1.188)	(1.188)	(1.187)	(1.188)	(1.182)	(1.186)
3	23.098	11.989	7.989	5.988	3.993	2.992	2.246	1.683	1.262	(1.188)	(1.186)	(1.184)	(1.184)	(1.187)	(1.188)	(1.188)	(1.188)	(1.187)	(1.188)	(1.182)	(1.186)
4	17.995	8.994	5.991	4.486	2.992	2.242	1.683	1.262	(1.188)	(1.186)	(1.184)	(1.184)	(1.187)	(1.188)	(1.188)	(1.188)	(1.188)	(1.187)	(1.188)	(1.182)	(1.186)
6	11.993	5.986	3.990	2.991	2.246	1.683	1.262	(1.188)	(1.186)	(1.184)	(1.184)	(1.187)	(1.188)	(1.188)	(1.188)	(1.188)	(1.188)	(1.187)	(1.188)	(1.182)	(1.186)
8	8.982	4.487	2.990	2.245	1.683	1.262	(1.188)	(1.186)	(1.184)	(1.184)	(1.187)	(1.188)	(1.188)	(1.188)	(1.188)	(1.188)	(1.188)	(1.187)	(1.188)	(1.182)	(1.186)
12	6.010	3.004	2.245	1.683	1.263	(1.188)	(1.186)	(1.184)	(1.184)	(1.187)	(1.188)	(1.188)	(1.188)	(1.188)	(1.188)	(1.188)	(1.188)	(1.187)	(1.188)	(1.182)	(1.186)
16	4.506	2.247	1.685	1.263	(1.188)	(1.186)	(1.185)	(1.184)	(1.184)	(1.187)	(1.188)	(1.188)	(1.188)	(1.188)	(1.188)	(1.188)	(1.188)	(1.187)	(1.188)	(1.182)	(1.186)
24	2.953	1.264	(1.187)	(1.184)	(1.184)	(1.184)	(1.183)	(1.185)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)
32	1.687	(1.187)	(1.181)	(1.170)	(1.182)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)	(1.186)
48	1.266	(1.183)	(1.181)	(1.170)	(1.182)	(1.185)	(1.185)	(1.184)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)
64	1.184	(1.184)	(1.184)	(1.180)	(1.180)	(1.186)	(1.184)	(1.184)	(1.184)	(1.184)	(1.184)	(1.184)	(1.184)	(1.184)	(1.184)	(1.184)	(1.184)	(1.184)	(1.184)	(1.184)	(1.184)
96	(1.183)	(1.182)	(1.179)	(1.170)	(1.181)	(1.185)	(1.190)	(1.195)													
128	(1.184)	(1.184)	(1.179)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)													
192	(1.182)	(1.182)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)													
256	(1.182)	(1.182)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)													
384	(1.182)	(1.182)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)													
512	(1.182)	(1.182)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)	(1.185)													
768	(1.187)	(1.187)	(1.194)																		
1024	(1.199)																				

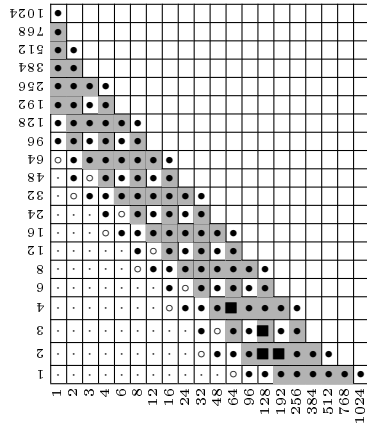


Table45. MB4 Fermi: Without L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	768	1,024	
1	0.0303	0.0364	0.0319	0.0292	0.0270	0.0267	0.0265	0.0245	0.0246	0.0248	0.0230	0.0224	0.0235	0.0522	0.0538	0.0541	0.0542	0.0539	0.0550	0.0540
2	0.0364	0.0309	0.0278	0.0272	0.0262	0.0249	0.0245	0.0242	0.0234	0.0232	0.0237	0.0229	0.0234	0.0538	0.0542	0.0541	0.0543	0.0540		
3	0.0324	0.0277	0.0268	0.0259	0.0235	0.0244	0.0231	0.0232	0.0228	0.0232	0.0231	0.0227	0.0235	0.0542	0.0541	0.0541	0.0543			
4	0.0302	0.0268	0.0268	0.0232	0.0237	0.0245	0.0238	0.0233	0.0237	0.0238	0.0232	0.0228	0.0232	0.0542	0.0541	0.0541	0.0543			
6	0.0277	0.0257	0.0255	0.0244	0.0237	0.0236	0.0234	0.0227	0.0231	0.0236	0.0233	0.0229	0.0233	0.0542	0.0541	0.0541	0.0543			
8	0.0265	0.0239	0.0250	0.0243	0.0247	0.0216	0.0233	0.0230	0.0233	0.0237	0.0227	0.0229	0.0233	0.0542	0.0541	0.0541	0.0543			
12	0.0251	0.0257	0.0240	0.0232	0.0235	0.0228	0.0234	0.0230	0.0237	0.0229	0.0244	0.0238	0.0238	0.0542	0.0541	0.0541	0.0543			
16	0.0247	0.0243	0.0237	0.0227	0.0219	0.0247	0.0235	0.0236	0.0239	0.0236	0.0241	0.0230	0.0238	0.0542	0.0541	0.0541	0.0543			
24	0.0246	0.0236	0.0235	0.0229	0.0233	0.0247	0.0235	0.0236	0.0239	0.0236	0.0241	0.0230	0.0238	0.0542	0.0541	0.0541	0.0543			
32	0.0240	0.0236	0.0233	0.0231	0.0235	0.0232	0.0235	0.0236	0.0239	0.0236	0.0241	0.0230	0.0238	0.0542	0.0541	0.0541	0.0543			
48	0.0236	0.0229	0.0234	0.0230	0.0236	0.0233	0.0236	0.0236	0.0239	0.0236	0.0241	0.0230	0.0238	0.0542	0.0541	0.0541	0.0543			
64	0.0227	0.0225	0.0226	0.0214	0.0226	0.0216	0.0229	0.0234	0.0232	0.0232	0.0232	0.0232	0.0232	0.0542	0.0541	0.0541	0.0543			
96	0.0230	0.0238	0.0236	0.0240	0.0242	0.0230	0.0242	0.0230	0.0237	0.0237	0.0238	0.0238	0.0238	0.0542	0.0541	0.0541	0.0543			
128	0.0543	0.0545	0.0544	0.0542	0.0532	0.0543	0.0545	0.0542	0.0532	0.0543	0.0545	0.0542	0.0532	0.0543	0.0545	0.0542	0.0532	0.0543	0.0545	0.0542
192	0.0539	0.0542	0.0544	0.0542	0.0532	0.0543	0.0545	0.0542	0.0532	0.0543	0.0545	0.0542	0.0532	0.0543	0.0545	0.0542	0.0532	0.0543	0.0545	0.0542
256	0.0550	0.0538	0.0548	0.0544	0.0532	0.0543	0.0545	0.0542	0.0532	0.0543	0.0545	0.0542	0.0532	0.0543	0.0545	0.0542	0.0532	0.0543	0.0545	0.0542
384	0.0543	0.0538	0.0548	0.0544	0.0532	0.0543	0.0545	0.0542	0.0532	0.0543	0.0545	0.0542	0.0532	0.0543	0.0545	0.0542	0.0532	0.0543	0.0545	0.0542
512	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543
768	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541	0.0541
1,024	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535	0.0535

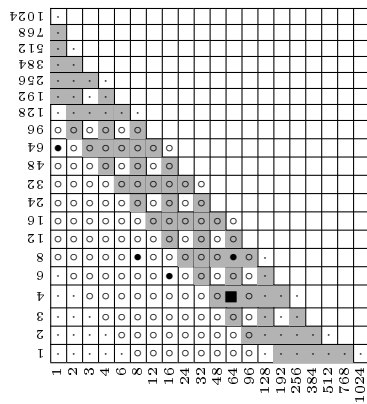


Table46. MB5 Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1206	0.0679	0.0504	0.0416	0.0329	0.0285	0.0242	0.0220	0.0195	0.0186	0.0160	0.0147	0.0158	0.0137	0.0156	0.0356	0.0360	0.0361	0.0359	0.0362
2	0.0678	0.0417	0.0330	0.0285	0.0242	0.0220	0.0196	0.0185	0.0161	0.0148	0.0159	0.0156	0.0158	0.0137	0.0155	0.0357	0.0353	0.0351		
3	0.0504	0.0329	0.0270	0.0241	0.0213	0.0195	0.0174	0.0161	0.0154	0.0155	0.0158	0.0164	0.0148	0.0127	0.0156	0.0360	0.0357	0.0351		
4	0.0415	0.0284	0.0241	0.0221	0.0196	0.0186	0.0161	0.0148	0.0156	0.0156	0.0159	0.0154	0.0155	0.0127	0.0159	0.0360	0.0353			
6	0.0329	0.0242	0.0213	0.0195	0.0174	0.0159	0.0152	0.0159	0.0154	0.0164	0.0156	0.0157	0.0159	0.0136	0.0159	0.0363				
8	0.0285	0.0221	0.0196	0.0185	0.0159	0.0148	0.0157	0.0154	0.0153	0.0151	0.0154	0.0155	0.0158	0.0136	0.0158	0.0363				
12	0.0242	0.0195	0.0174	0.0162	0.0152	0.0150	0.0154	0.0154	0.0148	0.0155	0.0170	0.0158								
16	0.0221	0.0186	0.0162	0.0148	0.0157	0.0151	0.0151	0.0153	0.0154	0.0144	0.0159	0.0161								
24	0.0196	0.0163	0.0152	0.0157	0.0156	0.0149	0.0156	0.0153	0.0154	0.0160										
32	0.0185	0.0146	0.0157	0.0156	0.0152	0.0149	0.0148	0.0143	0.0154	0.0160										
48	0.0159	0.0156	0.0154	0.0156	0.0152	0.0148	0.0148	0.0143	0.0159	0.0160										
64	0.0147	0.0159	0.0157	0.0156	0.0148	0.0149	0.0166	0.0158												
96	0.0157	0.0159	0.0153	0.0149	0.0166	0.0158														
128	(0.0131)	(0.0125)	(0.0241)	(0.0129)	(0.0138)	(0.0130)														
192	0.0159	0.0156	0.0171	0.0157	0.0360															
256	0.0364	0.0360	0.0369	0.0360																
384	0.0365	0.0360	0.0363																	
512	0.0360																			
768	0.0359																			
1024	0.0360																			

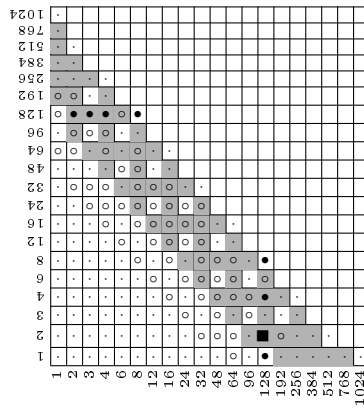


Table 47. MB5 Fermi: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1038.93	553.90	393.97	312.36	232.37	193.08	153.06	133.02	113.99	102.89	91.33	(79.09)	86.18	87.65	103.00	103.61	102.79	106.97	109.39	103.96
2	553.82	312.35	232.37	192.52	153.07	132.77	114.11	102.89	91.32	(79.07)	86.19	83.38	103.75	104.99	102.68	106.93				
3	392.83	232.42	179.29	142.73	126.09	114.00	97.14	91.32	(76.22)	86.18	90.71	103.80	101.72	102.88	103.62	109.35				
4	312.43	193.08	153.06	133.01	114.00	102.89	91.34	(79.08)	86.18	86.19	86.96	103.74	104.69	102.63	106.88	109.37	109.41			
6	233.12	152.73	126.33	114.00	97.14	91.32	(76.22)	86.18	92.78	103.19	101.66	102.53	103.63	109.46						
8	192.57	132.77	114.10	102.89	91.34	(79.07)	86.18	90.40	102.84	102.05	102.77	106.93	109.37	109.76						
12	153.07	113.99	97.11	91.32	(76.21)	86.18	91.15	102.62	101.02	102.69	103.53	109.40								
16	132.75	102.75	91.34	(79.08)	86.17	83.57	103.58	104.71	102.70	106.92	109.37	109.47								
24	114.08	91.33	(76.21)*	86.46	90.08	103.89	100.51	102.73	103.58	109.39	109.73									
32	102.75	(79.09)	86.18	85.87	102.68	98.09	103.70	106.95												
48	91.33	86.18	80.34	103.80	101.98	102.79	103.62	109.33												
64	(79.09)	83.50	103.84	104.50	102.56	106.90	109.47	103.92												
96	86.18	103.82	102.35	102.78	103.53	109.36														
128	85.20	104.82	102.71	106.88	109.38	109.50														
192	101.80	102.84	103.41	109.29																
256	104.88	106.98	109.45	104.04																
384	102.84	109.43																		
512	106.94	104.29																		
768	109.86																			
1024	103.97																			

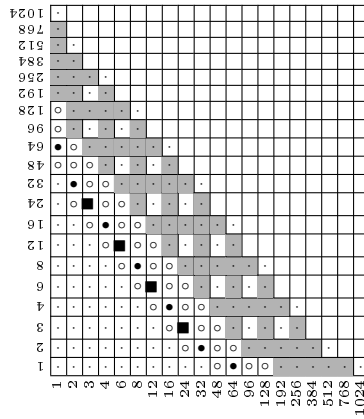


Table 48. MB5 Fermi: Normal L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0493	0.0362	0.0323	0.0292	0.0279	0.0261	0.0255	0.0244	0.0244	0.0251	0.0236	(0.0228)	(0.0225)	0.0538	0.0543	0.0547	0.0548	0.0540	0.0541	0.0538
2	0.0373	0.0295	0.0277	0.0263	0.0248	0.0243	0.0238	0.0241	0.0235	(0.0222)	0.0245	(0.0226)	0.0235	0.0641	0.0547	0.0543				
3	0.0317	0.0275	0.0260	0.0253	0.0249	0.0237	0.0244	(0.0231)	(0.0230)	(0.0228)	0.0238	(0.0226)	0.0240	0.0666	0.0546	0.0541				
4	0.0296	0.0259	0.0244	0.0243	0.0241	0.0238	(0.0227)	0.0232	0.0241	0.0232	0.0235	(0.0225)	0.0232	0.0541	0.0539	0.0512				
6	0.0286	0.0255	0.0240	0.0242	0.0233	0.0234	(0.0228)	(0.0228)	0.0233	0.0243	(0.0231)	(0.0222)	0.0243	0.0541	0.0539	0.0512				
8	0.0267	0.0244	0.0242	0.0242	0.0233	(0.0228)	(0.0228)	(0.0228)	0.0235	0.0232	(0.0230)	(0.0227)	(0.0222)	0.0541	0.0539	0.0512				
12	0.0250	0.0242	0.0236	(0.0230)	(0.0227)	(0.0228)	0.0243	0.0235	0.0232	(0.0227)	0.0235	(0.0227)	(0.0222)	0.0541	0.0539	0.0512				
16	0.0258	0.0238	0.0239	(0.0225)	(0.0227)	(0.0228)	0.0233	(0.0228)	0.0246	0.0234	(0.0227)	0.0248								
24	0.0237	(0.0227)	0.0236	(0.0225)	0.0234	(0.0228)	0.0233	(0.0228)	0.0246	0.0234	(0.0227)	0.0248								
32	0.0240	(0.0223)	0.0237	(0.0223)	0.0241	0.0233	0.0233	(0.0228)	0.0246	0.0234	(0.0227)	0.0248								
48	0.0248	(0.0223)	0.0236	(0.0223)	0.0237	(0.0223)	0.0233	(0.0228)	0.0246	0.0234	(0.0227)	0.0248								
64	0.0233	(0.0221)	(0.0223)	(0.0225)	(0.0232)	(0.0228)	0.0233	0.0233	(0.0228)	0.0240										
96	0.0236	(0.0227)	0.0235	(0.0225)	0.0232	(0.0228)	0.0233	0.0233	(0.0228)	0.0240										
128	0.0544	0.0545	0.0547	0.0538	0.0549	0.0549	0.0549	0.0549	0.0547	0.0547										
192	0.0544	0.0542	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547										
256	0.0543	0.0544	0.0544	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543										
384	0.0546	0.0546	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544										
512	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546	0.0546										
768	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548										
1024	0.0533																			

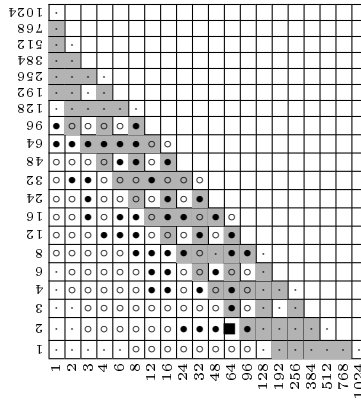


Table49. MB5 Fermi: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1206	0.0681	0.0506	0.0419	0.0332	0.0290	0.0247	0.0225	0.0201	0.0191	0.0166	0.0153	0.0160	0.0136	0.0181	0.0284	0.0383	0.0381	0.0382	0.0385
2	0.0880	0.0420	0.0333	0.0290	0.0216	0.0226	0.0201	0.0190	0.0165	0.0150	0.0165	0.0159	0.0162	0.0131	0.0153	0.0283	0.0380	0.0386		
3	0.0506	0.0333	0.0275	0.0243	0.0219	0.0201	0.0179	0.0166	0.0157	0.0160	0.0164	0.0165	0.0156	0.0135	0.0174	0.0369				
4	0.0420	0.0289	0.0245	0.0223	0.0201	0.0190	0.0168	0.0151	0.0163	0.0162	0.0163	0.0154	0.0161	0.0133	0.0165	0.0370				
6	0.0333	0.0246	0.0219	0.0201	0.0180	0.0165	0.0158	0.0162	0.0159	0.0158	0.0160	0.0151	0.0173	0.0140						
8	0.0289	0.0226	0.0201	0.0190	0.0165	0.0152	0.0159	0.0169	0.0159	0.0154	0.0172	0.0163	0.0163	0.0134						
12	0.0246	0.0200	0.0180	0.0165	0.0155	0.0163	0.0160	0.0166	0.0156	0.0152	0.0164	0.0165								
16	0.0226	0.0190	0.0164	0.0152	0.0161	0.0156	0.0164	0.0156	0.0152	0.0148	0.0164	0.0165								
24	0.0199	0.0163	0.0159	0.0159	0.0161	0.0160	0.0156	0.0156	0.0152	0.0148	0.0163	0.0165								
32	0.0191	0.0159	0.0160	0.0159	0.0160	0.0154	0.0159	0.0149	0.0173	0.0148	0.0163	0.0165								
48	0.0168	0.0160	0.0161	0.0157	0.0160	0.0148	0.0159	0.0149	0.0163	0.0148	0.0163	0.0165								
64	0.0152	0.0160	0.0164	0.0157	0.0155	0.0148	0.0163	0.0148	0.0163	0.0148	0.0163	0.0165								
96	0.0159	0.0163	0.0163	0.0154	0.0158	0.0148	0.0163	0.0148	0.0163	0.0148	0.0163	0.0165								
128	0.0140	0.0153	0.0153	0.0142	0.0142	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133	0.0133								
192	0.0162	0.0153	0.0171	0.0163	0.0163	0.0163	0.0163	0.0163	0.0163	0.0163	0.0163	0.0163								
256	0.0383	0.0377	0.0367	0.0392																
384	0.0379	0.0388																		
512	0.0384	0.0387																		
768	0.0380																			
1024	0.0382																			

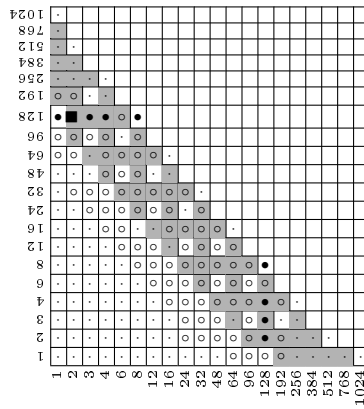


Table50. MB5 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1037.54	553.38	393.55	313.09	232.85	192.40	152.96	132.69	114.03	102.73	91.32	(79.08)	86.18	86.65	102.54	104.03	102.83	106.98	109.38	109.87
2	553.36	313.08	232.85	192.80	152.63	132.68	114.09	102.85	91.34	(79.08)	86.18	83.32	103.15	99.88	102.60	106.98				
3	392.21	232.17	179.59	152.64	126.04	114.11	97.14	91.32	(76.22)	86.17	84.64	103.42	101.50	102.58	103.54	109.39				
4	313.08	192.80	152.62	132.94	114.11	102.85	91.32	(79.08)	86.17	85.38	103.84	104.86	102.76	106.96	109.38	106.64				
6	232.85	152.62	126.04	114.09	97.17	91.34	(76.21)*	86.18	82.10	103.30	100.76	102.55	103.55	109.37						
8	192.80	132.95	114.11	102.85	91.32	(79.08)	86.18	83.72	100.20	104.51	102.62	103.57	109.40	109.35	103.80					
12	152.64	114.11	97.24	91.33	(76.22)	86.18	84.41	102.85	101.49	102.82	103.57	109.40								
16	132.94	102.73	91.34	(76.07)	86.18	85.57	103.24	104.22	102.80	106.94	109.39	104.08								
24	114.10	91.34	(76.21)	86.18	83.31	103.65	101.94	102.71	103.60	109.41	104.20									
32	102.86	(79.08)	86.18	83.55	102.17	104.44	102.88	107.00												
48	91.34	86.18	83.52	102.66	104.73	102.76	107.01	109.49	109.44											
96	86.18	103.24	101.47	102.51	103.62	109.46														
128	83.98	101.32	102.51	106.98	109.40	103.89														
192	103.51	102.75	103.55	109.38																
256	105.07	106.91	109.38	105.61																
384	102.74	109.39																		
512	106.92	112.28																		
768	109.32																			
1024	110.01																			

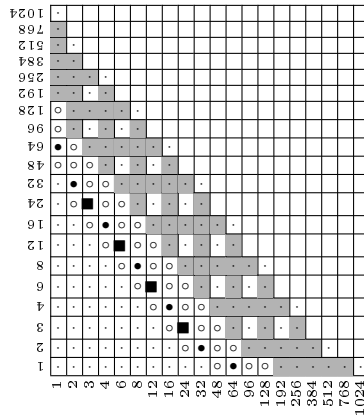


Table 51. MB5 Fermi: Increased L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0493	0.0365	0.0316	0.0303	0.0272	0.0258	0.0250	0.0247	0.0239	0.0238	0.0231	(0.0221)	(0.0225)	0.0235	0.0228	0.0539	0.0538	0.0540	0.0539	0.0537
2	0.0360	0.0293	0.0281	0.0262	0.0258	0.0244	0.0249	0.0241	0.0229	(0.0225)	0.0230	(0.0216)	0.0231	0.0231	0.0446	0.0547	0.0541			
3	0.0320	0.0275	0.0260	0.0251	0.0245	0.0232	0.0238	0.0231	0.0230	0.0230	0.0229	(0.0225)	0.0234	0.0544	0.0533	0.0541				
4	0.0301	0.0265	0.0255	0.0247	0.0246	0.0241	0.0228	(0.0226)	0.0230	(0.0226)	0.0234	0.0350	(0.0225)	0.0541	0.0539	0.0547				
6	0.0268	0.0237	0.0250	0.0367	0.0235	0.0238	0.0233	0.0229	0.0235	(0.0222)	0.0240	0.0228	0.0237	0.0541	0.0538	0.0545				
8	0.0258	0.0245	0.0244	0.0242	0.0234	0.0229	0.0231	(0.0223)	0.0230	0.0235	(0.0226)	0.0227	(0.0224)	0.0545						
12	0.0250	0.0238	0.0237	0.0234	0.0235	0.0227	0.0238	(0.0224)	0.0233	0.0238	0.0242	(0.0225)	(0.0223)	0.0556						
16	0.0238	0.0236	0.0240	0.0233	0.0231	0.0227	0.0232	0.0231	0.0228	0.0233	0.0227	0.0235								
24	0.0235	(0.0223)	0.0235	0.0229	0.0231	0.0235	0.0234	0.0232	0.0230	0.0238	0.0227									
32	0.0230	(0.0223)	0.0227	0.0227	(0.0220)	0.0230	(0.0226)	0.0229	0.0232	0.0232	0.0227									
48	(0.0224)	0.0227	(0.0226)	(0.0225)	0.0236	0.0237	0.0239	0.0238	0.0229	0.0236										
64	0.0235	0.0234	0.0237	(0.0219)	0.0238	0.0230	0.0229	0.0234	0.0230											
96	0.0533	0.0536	0.0543	0.0541	0.0539	0.0536	0.0539	0.0542												
128	0.0545	0.0547	0.0539	0.0541	0.0539	0.0536	0.0539	0.0542												
256	0.0541	0.0549	0.0544	0.0545																
384	0.0532	0.0549	0.0544	0.0545																
512	0.0542	0.0560																		
768	0.0543																			
1024	0.0538																			

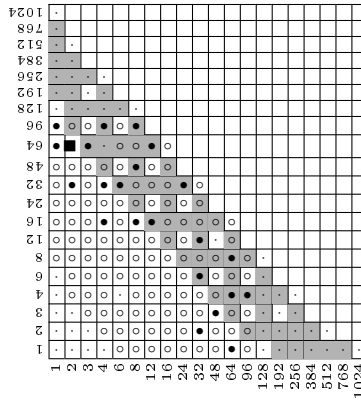


Table52. MB5 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1204	0.0677	0.0503	0.0416	0.0328	0.0286	0.0241	0.0223	0.0196	0.0186	0.0160	0.0148	0.0156	0.0129	0.0158	0.0363	0.0348	0.0359	0.0370	0.0358
2	0.0876	0.0415	0.0288	0.0286	0.0242	0.0221	0.0196	0.0186	0.0159	0.0148	0.0155	0.0151	0.0152	0.0126	0.0148	0.0356	0.0364			
3	0.0504	0.0328	0.0271	0.0242	0.0214	0.0195	0.0174	0.0160	0.0150	0.0156	0.0154	0.0158	0.0150	0.0127	0.0157	0.0359				
4	0.0415	0.0288	0.0242	0.0221	0.0195	0.0185	0.0161	0.0147	0.0157	0.0149	0.0158	0.0155	0.0148	0.0139	0.0159	0.0359				
6	0.0328	0.0242	0.0214	0.0196	0.0176	0.0159	0.0153	0.0158	0.0154	0.0152	0.0158	0.0154	0.0167	0.0135						
8	0.0286	0.0221	0.0195	0.0185	0.0161	0.0148	0.0154	0.0158	0.0161	0.0152	0.0168	0.0144	0.0157	0.0130						
12	0.0244	0.0196	0.0175	0.0160	0.0153	0.0158	0.0153	0.0180	0.0146	0.0146	0.0157	0.0161								
16	0.0221	0.0186	0.0162	0.0147	0.0156	0.0156	0.0159	0.0154	0.0153	0.0144	0.0157									
24	0.0196	0.0161	0.0154	0.0232	0.0153	0.0152	0.0146	0.0148	0.0153	0.0157										
32	0.0196	0.0148	0.0159	0.0156	0.0159	0.0152	0.0148	0.0148	0.0153	0.0157										
48	0.0161	0.0158	0.0220	0.0236	0.0128	0.0148	0.0169	0.0157												
64	0.0147	0.0151	0.0152	0.0146	0.0147	0.0144	0.0159	0.0160												
96	0.0156	0.0158	0.0154	0.0150	0.0154	0.0150														
128	0.0134	0.0146	0.0170	0.0158	0.0135	0.0221														
192	0.0158	0.0158	0.0375																	
256	0.0365	0.0361																		
384	0.0368	0.0484																		
512	0.0360	0.0362																		
768	0.0355																			
1024	0.0358																			

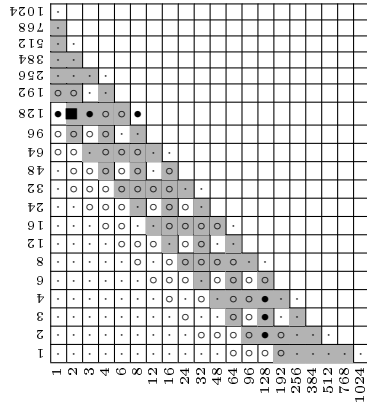


Table 53. MB5 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1041.51	555.50	393.71	313.21	232.92	192.46	152.67	132.98	114.00	102.75	91.35	(79.08)	86.19	80.70	103.20	104.16	102.55	106.98	109.81	103.99
2	555.56	313.19	232.23	192.45	153.49	132.72	114.01	102.74	91.33	(79.08)	86.22	85.70	103.24	104.64	102.85	106.90	109.35	109.81		
3	393.78	232.94	179.65	142.68	126.30	113.98	97.13	91.33	(76.22)	86.19	92.63	103.22	101.63	102.65	103.58	109.36				
4	312.17	192.97	143.01	132.98	113.99	102.74	91.35	(79.08)	86.18	85.83	103.02	103.95	102.51	106.94	109.39	103.71				
6	232.92	152.66	126.29	113.98	97.14	91.35	(76.22)	86.19	89.72	103.36	102.56	102.80	103.59	109.40						
8	192.66	132.73	114.07	102.74	91.34	(79.08)	86.19	83.99	103.77	99.94	102.70	106.94	109.36	103.78						
12	152.68	113.98	97.13	91.34	(76.22)	86.18	80.14	103.89	102.12	102.71	103.59	109.35								
16	132.98	102.74	91.33	(79.08)	86.18	83.55	103.92	103.67	102.67	106.95	109.42	109.57								
24	113.98	91.35	(76.22)	86.19	80.79	103.86	102.79	102.62	103.58	109.34										
32	102.74	(79.09)	86.19	84.55	102.97	100.54	102.69	106.99	109.39											
48	91.33	86.19	80.26	103.41	102.73	103.56	109.41	104.23												
64	(79.08)	88.05	103.10	103.96	102.59	106.93	109.41	104.23												
96	86.19	102.95	99.20	102.73	103.56	109.45														
128	85.60	101.73	102.53	103.52	109.41															
192	103.86	102.72	103.52	109.41																
256	103.45	106.86	109.37	103.66																
384	102.63	109.36																		
512	106.97	104.23																		
768	109.37																			
1024	104.33																			

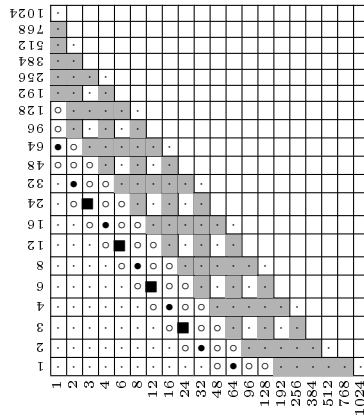


Table 54. MB5 Fermi: Without L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0517	0.0488	0.0446	0.0282	0.0254	0.0247	0.0356	0.0225	0.0223	0.0209	0.0210	(0.0195)	0.0202	0.0529	0.0927	0.0538				
2	0.0357	0.0282	0.0256	0.0239	0.0231	0.0210	0.0215	0.0215	0.0355	0.0337	0.0202	0.0203	(0.0199)	0.0531	0.0541	0.0538				
3	0.0306	0.0380	0.0368	0.0228	0.0223	0.0216	0.0219	(0.0199)	0.0210	0.0326	(0.0200)	(0.0200)	(0.0199)	0.1190	0.0540	0.0536				
4	0.0410	0.0369	0.0229	0.0222	0.0216	0.0206	0.0205	0.0209	0.0206	(0.0201)	(0.0199)	(0.0201)	(0.0198)	0.0537	0.0530	0.0539				
6	0.0258	0.0360	0.0219	0.0215	0.0213	0.0210	0.0207	0.0331	(0.0195)	(0.0202)	(0.0196)	(0.0200)	(0.0200)	0.0537	0.0530	0.0539				
8	0.0244	0.0222	0.0220	0.0343	0.0211	0.0214	0.0202	0.0335	0.0205	(0.0199)	(0.0199)	(0.0200)	0.0204	0.0531						
12	0.0228	0.0214	0.0211	0.0211	0.0211	0.0204	0.0336	0.0208	0.0215	(0.0199)	(0.0199)	0.0204								
16	0.0224	0.0213	0.0212	0.0210	0.0204	(0.0201)	0.0348	0.0206	0.0211	(0.0199)	(0.0199)	0.0202								
24	0.0217	0.0218	0.0210	(0.0199)	(0.0200)	(0.0200)	0.0327	0.0206	0.0206	0.0335	0.0204	0.0202								
32	0.0206	0.0212	(0.0193)	(0.0200)	(0.0198)	(0.0198)	0.0206	(0.0201)	0.0331	(0.0200)										
48	0.0212	0.0201	0.0205	0.0209	0.0204	0.0201	0.0202	(0.0192)*												
64	(0.0197)	0.0212	0.0203	0.0212	0.0201	(0.0196)	0.0209													
96	0.0533	0.0531	0.0531	0.0325	(0.0199)	(0.0196)														
128	0.0539	0.0541	0.0528	0.0536	(0.0201)	(0.0196)	0.0542													
256	0.0529	0.0541	0.0546	0.0542																
384	0.0543	0.0548	0.0533																	
512	0.0529	0.0546																		
768	0.0523																			
1024	0.0532																			

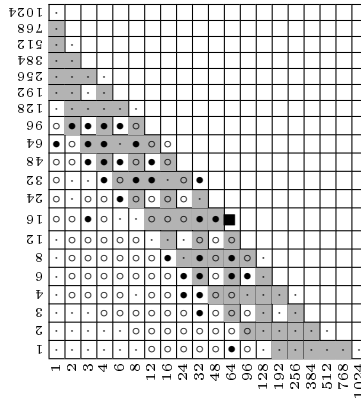


Table55. MB6 Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1278	0.0679	0.0477	0.0376	0.0355	0.0223	0.0173	0.0146	0.0203	0.0211	0.0095	0.0089	0.0083	0.0076	0.0085	0.0358	0.0363	0.0367	0.0360	0.0361
2	0.0763	0.0375	0.0274	0.0222	0.0172	0.0146	0.0120	0.0108	0.0096	0.0089	0.0082	0.0079	0.0076	0.0075	0.0078	0.0348	0.0348	0.0357		
3	0.0477	0.0274	0.0222	0.0172	0.0137	0.0121	0.0104	0.0096	0.0087	0.0082	0.0078	0.0076	0.0075	0.0074	0.0078	0.0357				
4	0.0375	0.0223	0.0260	0.0146	0.0120	0.0108	0.0187	0.0089	0.0083	0.0083	0.0077	0.0076	0.0075	0.0074	0.0078	0.0353				
6	0.0274	0.0172	0.0217	0.0121	0.0104	0.0095	0.0087	0.0083	0.0078	0.0078	0.0076	0.0075	0.0074	0.0073						
8	0.0221	0.0146	0.0121	0.0108	0.0096	0.0089	0.0083	0.0080	0.0077	0.0077	0.0075	0.0074	0.0073							
12	0.0171	0.0121	0.0105	0.0095	0.0083	0.0080	0.0077	0.0076	0.0075	0.0075	0.0074	0.0073								
16	0.0146	0.0188	0.0096	0.0089	0.0083	0.0080	0.0077	0.0076	0.0075	0.0075	0.0074	0.0073								
24	0.0121	0.0085	0.0171	0.0083	0.0078	0.0078	0.0076	0.0075	0.0075	0.0074	0.0073									
32	0.0107	0.0089	0.0082	0.0160	0.0076	0.0076	0.0075	0.0075	0.0075	0.0074	0.0073									
48	0.0097	0.0082	0.0079	0.0077	0.0076	0.0075	0.0075	0.0075	0.0075	0.0074	0.0073									
64	0.0089	0.0077	0.0077	0.0076	0.0075	0.0075	0.0075	0.0075	0.0075	0.0074	0.0073									
96	0.0083	0.0077	0.0077	0.0076	0.0075	0.0075	0.0075	0.0075	0.0075	0.0074	0.0073									
128	0.0076	0.0075	0.0075	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0073									
192	0.0076	0.0075	0.0075	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0073									
256	0.0352	0.0354	0.0364																	
384	0.0352	0.0350																		
512	0.0363	0.0354																		
768	0.0748																			
1024	0.0363																			

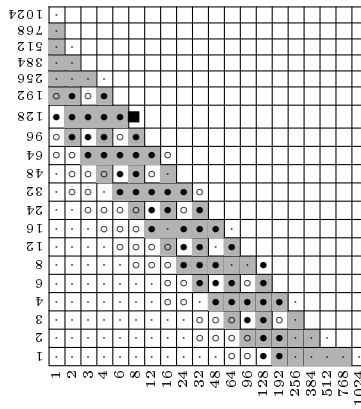


Table56. MB6 Fermi: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1109.851	565.850	376.025	281.993	188.629	141.008	94.014	70.501	47.163	35.265	23.727	17.797	12.292	10.092	8.518	8.084	8.027	7.846	7.689	7.546
2	563.943	281.957	188.623	140.999	94.006	70.723	47.149	35.249	23.647	17.797	12.289	10.046	8.516	8.173	7.959	7.896	7.838	7.784	7.733	7.684
3	377.206	187.984	125.299	94.297	62.678	46.992	31.633	23.650	16.380	12.332	9.699	8.514	8.276	8.129	8.071	8.014	7.958	7.904	7.851	7.800
4	282.805	141.472	94.001	70.496	46.997	35.373	23.726	17.739	12.395	10.006	8.516	8.232	8.094	7.947	7.891	7.835	7.780	7.726	7.673	7.621
6	187.985	93.988	62.880	47.001	31.633	23.728	16.388	12.285	9.691	8.511	8.220	7.921	7.783	7.636	7.580	7.524	7.469	7.414	7.360	7.306
8	141.477	70.500	46.990	35.249	23.647	17.797	12.285	10.093	8.590	8.106	7.811	7.512	7.374	7.227	7.171	7.115	7.060	7.005	6.950	6.896
12	93.991	46.993	31.527	23.728	16.388	12.300	9.699	8.515	8.220	8.006	7.811	7.616	7.421	7.226	7.031	6.836	6.641	6.446	6.251	6.056
16	70.732	35.267	23.646	17.735	12.327	10.054	8.521	8.025	7.841	7.656	7.471	7.286	7.101	6.916	6.731	6.546	6.361	6.176	6.001	5.826
24	47.003	23.647	16.457	12.304	10.036	8.332	8.054	7.917	7.780	7.643	7.506	7.369	7.232	7.095	6.958	6.821	6.684	6.547	6.410	6.273
32	35.252	17.738	12.304	10.036	8.332	8.054	7.917	7.780	7.643	7.506	7.369	7.232	7.095	6.958	6.821	6.684	6.547	6.410	6.273	6.136
48	23.649	12.288	9.685	8.009	8.332	8.054	7.917	7.780	7.643	7.506	7.369	7.232	7.095	6.958	6.821	6.684	6.547	6.410	6.273	6.136
64	17.738	10.068	8.515	8.095	8.431	8.054	7.917	7.780	7.643	7.506	7.369	7.232	7.095	6.958	6.821	6.684	6.547	6.410	6.273	6.136
96	12.287	8.514	8.095	8.431	8.054	7.917	7.780	7.643	7.506	7.369	7.232	7.095	6.958	6.821	6.684	6.547	6.410	6.273	6.136	6.000
128	10.011	8.169	8.043	8.459	8.054	7.917	7.780	7.643	7.506	7.369	7.232	7.095	6.958	6.821	6.684	6.547	6.410	6.273	6.136	6.000
192	8.512	8.043	8.459	8.054	7.917	7.780	7.643	7.506	7.369	7.232	7.095	6.958	6.821	6.684	6.547	6.410	6.273	6.136	6.000	5.863
256	8.085	8.459	8.054	7.917	7.780	7.643	7.506	7.369	7.232	7.095	6.958	6.821	6.684	6.547	6.410	6.273	6.136	6.000	5.863	5.726
384	7.935	8.459	8.054	7.917	7.780	7.643	7.506	7.369	7.232	7.095	6.958	6.821	6.684	6.547	6.410	6.273	6.136	6.000	5.863	5.726
512	7.896*	8.459	8.054	7.917	7.780	7.643	7.506	7.369	7.232	7.095	6.958	6.821	6.684	6.547	6.410	6.273	6.136	6.000	5.863	5.726
768	7.959	8.459	8.054	7.917	7.780	7.643	7.506	7.369	7.232	7.095	6.958	6.821	6.684	6.547	6.410	6.273	6.136	6.000	5.863	5.726
1024	9.915																			

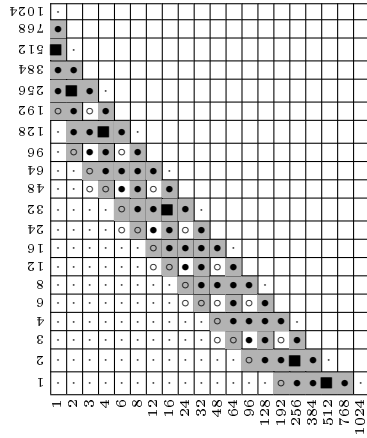


Table 57. MB6 Fermi: Normal L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0506	0.0364	0.0307	0.0279	0.0252	0.0247	0.0239	0.0224	0.0216	0.0211	0.0207	(0.0198)	(0.0197)	0.0530	0.0531	0.0537	0.0534	0.0539	0.0534	0.0539
2	0.0356	0.0280	0.0251	0.0240	0.0307	0.0223	0.0219	0.0215	0.0209	(0.0202)	0.0233	0.0205	(0.0198)	0.0535	0.0528	0.0541	0.0533	0.0536		
3	0.0305	0.0262	0.0236	0.0228	0.0220	0.0212	0.0215	0.0217	(0.0202)	0.0210	(0.0200)	(0.0197)	0.0213	0.0544	0.0535	0.0544	0.0533			
4	0.0281	0.0242	0.0226	0.0221	0.0215	0.0213	0.0209	0.0217	(0.0202)	(0.0202)	(0.0202)	(0.0197)	(0.0198)	0.0540	0.0537	0.0544	0.0533			
6	0.0251	0.0230	0.0221	0.0220	0.0213	0.0208	0.0208	(0.0200)	(0.0197)	(0.0204)	(0.0197)	(0.0202)	(0.0198)	0.0540	0.0537	0.0544	0.0533			
8	0.0237	0.0221	0.0219	0.0212	0.0208	0.0205	0.0205	(0.0201)	(0.0199)	(0.0207)	(0.0195)	(0.0202)	0.0210	0.0546	0.0540	0.0544	0.0533			
12	0.0226	0.0211	0.0207	0.0207	0.0208	0.0200	0.0200	(0.0200)	0.0207	(0.0200)	(0.0195)	(0.0202)	0.0205							
16	0.0221	0.0213	0.0211	0.0212	(0.0199)	(0.0193)*	(0.0197)	(0.0202)	0.0207	(0.0194)	(0.0195)	(0.0200)	0.0205							
24	0.0218	0.0204	0.0207	(0.0197)	(0.0198)	(0.0200)	(0.0195)	(0.0196)	0.0213	(0.0197)	(0.0195)	(0.0200)	0.0205							
32	0.0212	0.0214	(0.0201)	(0.0203)	(0.0200)	0.0212	(0.0195)	(0.0201)	(0.0202)	(0.0194)	(0.0195)	(0.0200)	0.0205							
48	0.0206	0.0206	(0.0201)	(0.0203)	(0.0201)	(0.0197)	(0.0195)	(0.0202)	(0.0200)	(0.0199)										
64	(0.0199)	(0.0203)	(0.0201)	(0.0201)	(0.0200)	0.0205	(0.0197)	(0.0200)												
96	(0.0199)	(0.0203)	(0.0201)	(0.0201)	(0.0200)	0.0205	(0.0197)	(0.0200)												
128	0.0556	0.0532	0.0539	0.0542	0.0540	0.0536														
192	0.0548	0.0532	0.0539	0.0542	0.0540	0.0536														
256	0.0532	0.0532	0.0537	0.0539	0.0540	0.0536														
384	0.0535	0.0535	0.0543	0.0543	0.0540	0.0536														
512	0.0532	0.0532	0.0537	0.0539	0.0540	0.0536														
768	0.0532	0.0532	0.0537	0.0539	0.0540	0.0536														
1024	0.0892																			

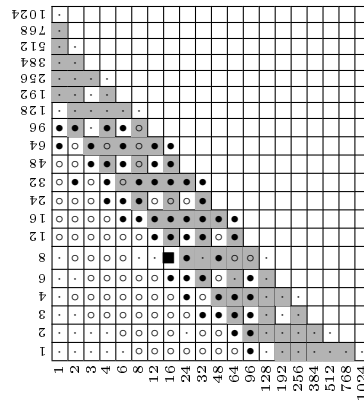


Table 58. MB6 Fermi: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.1279	0.0684	0.0482	0.0378	0.0278	0.0227	0.0176	0.0150	0.0135	0.0113	0.0101	0.0094	0.0088	0.0083	0.0080	0.0380	0.0377	0.0369	0.0388	0.0785
2	0.0684	0.0379	0.0278	0.0227	0.0176	0.0151	0.0126	0.0113	0.0101	0.0094	0.0088	0.0084	0.0083	0.0081	0.0081	0.0381	0.0381	0.0381	0.0381	
3	0.0480	0.0278	0.0210	0.0177	0.0143	0.0239	0.0109	0.0100	0.0092	0.0088	0.0086	0.0083	0.0083	0.0081	0.0081	0.0384	0.0384	0.0384	0.0384	
4	0.0379	0.0227	0.0176	0.0151	0.0125	0.0210	0.0100	0.0094	0.0088	0.0084	0.0083	0.0082	0.0082	0.0081	0.0081	0.0380				
6	0.0278	0.0176	0.0142	0.0125	0.0211	0.0101	0.0092	0.0087	0.0085	0.0083	0.0083	0.0082	0.0082	0.0081	0.0081					
8	0.0227	0.0151	0.0125	0.0113	0.0100	0.0094	0.0088	0.0084	0.0083	0.0083	0.0083	0.0082	0.0082	0.0081	0.0081					
12	0.0176	0.0125	0.0109	0.0100	0.0092	0.0088	0.0084	0.0084	0.0082	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081					
16	0.0151	0.0112	0.0101	0.0094	0.0088	0.0085	0.0082	0.0082	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081					
24	0.0126	0.0100	0.0092	0.0088	0.0084	0.0084	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081					
32	0.0113	0.0084	0.0084	0.0085	0.0082	0.0082	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081					
48	0.0101	0.0088	0.0084	0.0083	0.0082	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081					
64	0.0197	0.0084	0.0082	0.0083	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081					
96	0.0187	0.0083	0.0082	0.0082	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081	0.0081					
128	0.0082	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079	0.0079					
192	0.0081	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080					
256	0.0375	0.0387	0.0386																	
384	0.0371	0.0381																		
512	0.0378																			
768																				
1,024	0.0380																			

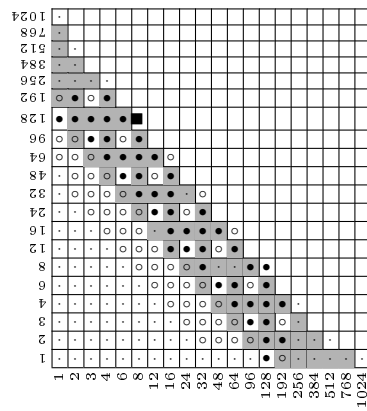


Table59. MB6 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	1113.199	563.916	377.191	281.936	188.682	140.906	93.989	70.495	47.155	35.375	23.645	17.735	12.321	10.109	8.508	8.107	8.064	8.064	8.064	8.064	8.064
2	565.792	281.949	187.978	140.981	94.305	70.721	47.164	35.238	23.721	17.794	12.266	10.045	8.519	8.106	8.064	8.064	8.064	8.064	8.064	8.064	8.064
3	377.172	188.592	124.723	94.295	62.651	47.140	31.522	23.723	16.415	12.270	9.691	8.519	8.243	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
4	282.869	140.989	94.291	70.730	47.163	35.250	23.724	17.735	12.287	10.033	8.515	8.196	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
6	188.674	94.004	62.661	47.007	31.524	23.723	16.442	12.278	9.695	8.509	8.243	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
8	140.972	70.733	46.994	35.256	23.723	17.736	12.319	10.045	8.505	8.148	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
12	70.721	35.370	23.723	17.737	12.320	10.073	8.506	8.148	8.332	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
24	47.151	23.724	16.376	12.291	9.697	8.516	8.332	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
32	35.245	17.795	12.306	10.111	8.332	8.148	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
48	23.722	12.308	9.688	8.511	8.332	8.148	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
64	17.735	10.026	8.511	8.148	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
96	12.291	8.511	8.250	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
128	10.027	8.148	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
192	8.510	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
256	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
384	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
512	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
768	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064	8.064
1024	8.884																				

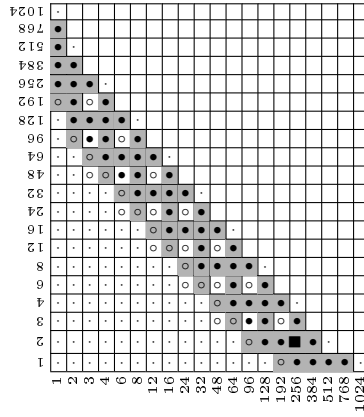


Table60. MB6 Fermi: Increased L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0306	0.0362	0.0307	0.0284	0.0254	0.0241	0.0229	0.0221	0.0220	0.0214	0.0213	0.0201	(0.0196)	0.0540	0.0529	0.0548	0.0533	0.0537	0.0536	0.0538
2	0.0354	0.0281	0.0254	0.0244	0.0230	0.0222	0.0217	0.0211	0.0211	0.0210	0.0203	0.0203	0.0203	0.0200	0.0535	0.0535	0.0532	0.0540		
3	0.0308	0.0258	0.0371	0.0232	0.0215	0.0204	0.0214	0.0202	0.0216	0.0206	0.0199	(0.0197)	0.0206	0.0200	0.0524	0.0540	0.0540			
4	0.0281	0.0252	0.0229	0.0227	0.0218	0.0214	0.0212	0.0207	0.0203	0.0202	(0.0197)	0.0206	0.0202	0.0202	0.0528	0.0533				
6	0.0253	0.0229	0.0223	0.0216	0.0214	0.0208	0.0205	0.0203	0.0201	(0.0196)	0.0203	0.0204	0.0203	0.0203	0.0539					
8	0.0239	0.0224	0.0209	0.0213	0.0209	0.0211	(0.0198)	0.0199	0.0201	0.0202	(0.0196)	(0.0195)	0.0200	0.0200	0.0532					
12	0.0235	0.0215	0.0220	0.0211	0.0213	0.0212	0.0206	0.0199	(0.0196)	0.0199	0.0200	0.0200	0.0200	0.0200						
16	0.0220	0.0213	0.0209	0.0209	0.0199	0.0201	(0.0196)	0.0201	0.0200	0.0202	0.0202	0.0201	0.0200	0.0202						
24	0.0219	0.0209	0.0208	0.0200	0.0207	(0.0198)	(0.0196)	0.0203	0.0200	0.0200										
32	0.0212	0.0202	0.0200	(0.0196)	0.0200	0.0202	(0.0196)	0.0203	0.0200	0.0202										
48	0.0203	(0.0198)	0.0203	0.0199	0.0200	0.0202	0.0199	(0.0198)	0.0201											
64	0.0202	0.0201	(0.0197)	0.0198	0.0202	(0.0196)	(0.0196)	0.0202	0.0200											
96	0.0202	0.0201	(0.0197)	0.0198	0.0202	(0.0196)	(0.0196)	0.0202	0.0200											
128	0.0529	0.0533	0.0540	0.0529	0.0542	0.0533														
192	0.0546	0.0539	0.0537	0.0540																
256	0.0541	0.0544	0.0535	0.0528																
384	0.0518	0.0538																		
512	0.0537	0.0537																		
768	0.0536																			
1024	0.0534																			

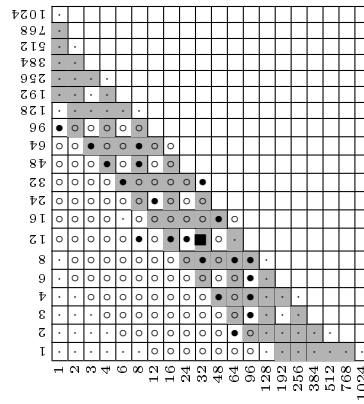


Table 61. MB6 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1277	0.0682	0.0479	0.0374	0.0273	0.0222	0.0171	0.0223	0.0121	0.0108	0.0095	0.0089	0.0082	0.0076	0.0077	0.0358	0.0377	0.0356	0.0743	0.0355
2	0.0770	0.0375	0.0274	0.0222	0.0171	0.0145	0.0121	0.0108	0.0096	0.0089	0.0083	0.0079	0.0077	0.0074	0.0075	0.0358	0.0354	0.0372		
3	0.0477	0.0274	0.0205	0.0172	0.0137	0.0121	0.0105	0.0095	0.0087	0.0083	0.0081	0.0079	0.0076	0.0074	0.0079	0.0357				
4	0.0376	0.0223	0.0171	0.0146	0.0121	0.0182	0.0179	0.0179	0.0082	0.0079	0.0079	0.0076	0.0076	0.0074	0.0074	0.0357				
6	0.0273	0.0172	0.0138	0.0121	0.0104	0.0096	0.0088	0.0083	0.0079	0.0079	0.0076	0.0076	0.0078	0.0074	0.0074					
8	0.0223	0.0146	0.0121	0.0108	0.0096	0.0089	0.0082	0.0079	0.0079	0.0076	0.0076	0.0078	0.0074	0.0074	0.0074					
12	0.0171	0.0121	0.0106	0.0095	0.0087	0.0084	0.0079	0.0079	0.0077	0.0076	0.0075	0.0078	0.0074	0.0074	0.0075					
16	0.0146	0.0108	0.0095	0.0089	0.0083	0.0079	0.0077	0.0076	0.0076	0.0075	0.0078	0.0074	0.0074	0.0074	0.0075					
24	0.0121	0.0178	0.0087	0.0084	0.0081	0.0079	0.0077	0.0076	0.0076	0.0075	0.0078	0.0074	0.0074	0.0074	0.0075					
32	0.0108	0.0174	0.0083	0.0079	0.0077	0.0076	0.0075	0.0075	0.0075	0.0075	0.0078	0.0074	0.0074	0.0074	0.0075					
48	0.0096	0.0083	0.0078	0.0077	0.0076	0.0075	0.0075	0.0075	0.0075	0.0075	0.0078	0.0074	0.0074	0.0074	0.0075					
64	0.0089	0.0077	0.0076	0.0076	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0078	0.0074	0.0074	0.0074	0.0075					
96	0.0083	0.0077	0.0076	0.0076	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0078	0.0074	0.0074	0.0074	0.0075					
128	0.0158	0.0075	0.0075	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074					
192	0.0077	0.0075	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078					
256	0.0358	0.0361	0.0368	0.0360																
384	0.0356	0.0348																		
512	0.0347	0.0322																		
768	0.0352																			
1024	0.0352																			

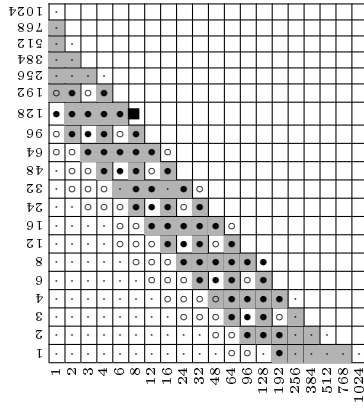


Table 62. MB6 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1113.490	564.0781	376.0687	282.9651	188.0412	141.489	94.007	70.512	47.163	35.271	28.731	17.800	12.335	10.066	8.515	8.198	8.001	7.917	7.938	9.884
2	564.124	282.040	188.062	141.492	94.012	70.521	47.006	35.372	23.732	17.799	12.350	10.095	8.814	8.817	8.095	8.041	7.917	7.958	9.884	
3	377.281	188.029	125.359	94.344	62.894	47.159	31.533	23.732	16.395	12.342	9.691	8.814	8.281	8.095	7.460	7.917	7.958	9.884		
4	282.047	141.497	94.021	70.515	47.166	35.378	23.731	17.801	12.397	10.080	8.820	8.145	8.038	7.917	7.959	9.884				
6	188.056	94.334	62.880	47.014	31.534	23.730	16.398	12.320	9.678	8.811	8.265	8.038	8.038	7.917	7.959	9.884				
8	141.020	70.746	47.170	35.375	23.651	17.800	12.329	10.097	8.597	8.811	8.148	7.957	7.906	7.940	9.884					
12	94.323	47.029	31.639	23.732	16.397	12.312	9.685	8.590	8.220	8.020	8.148	7.957	7.906	9.884						
16	70.756	35.375	23.732	17.800	12.318	10.077	8.511	8.253	8.022	8.020	8.148	7.957	7.906	9.884						
24	47.166	23.731	16.443	12.308	9.697	8.818	8.511	8.127	8.022	8.020	8.148	7.957	7.906	9.884						
32	35.381	17.743	12.295	10.036	8.518	8.022	8.022	8.022	8.022	8.022	8.022	8.022	8.022	8.022	9.884					
48	23.652	12.324	9.691	8.818	8.022	8.022	8.022	8.022	8.022	8.022	8.022	8.022	8.022	8.022	8.022	9.884				
64	17.801	10.141	8.522	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	9.884			
96	12.358	8.528	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	8.033	9.884	
128	10.100	8.064	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	9.884
192	8.514	8.041	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043
256	8.126	8.017	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043
384	8.018	8.017	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043
512	8.017	8.017	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043
768	8.017	8.017	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043	8.043
1024	9.884																			

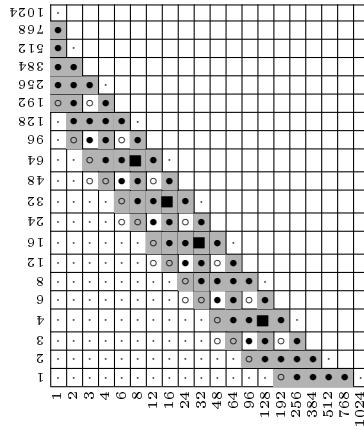


Table63. MB6 Fermi: Without L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1.79070	9.0179	6.0371	4.6278	3.0837	2.3557	1.6364	1.2037	0.9502	0.7248	0.5136	0.2885	0.3707	(0.0544)	(0.0540)	(0.0546)	(0.0532)	(0.0542)	(0.0536)	(0.0533)
2	6.0226	4.5941	3.0823	2.3398	1.6398	1.2014	0.9509	0.7236	0.5135	0.4882	0.3716	0.3012	0.3926	(0.0545)	(0.0544)	(0.0546)	(0.0532)	(0.0542)	(0.0536)	(0.0533)
3	6.0265	3.0550	2.1107	1.6405	1.1778	0.9459	0.7327	0.5135	0.6982	0.3744	0.4226	0.3212	0.4437	(0.0534)	(0.0533)	(0.0543)	(0.0532)	(0.0532)	(0.0532)	(0.0532)
4	4.6187	2.3410	1.6442	1.2026	0.9476	0.7249	0.5134	0.4876	0.3737	0.3541	0.3942	0.2903	0.3856	(0.0532)	(0.0532)	(0.0531)	(0.0532)	(0.0532)	(0.0532)	(0.0532)
6	3.0553	1.6404	1.1778	0.9478	0.7315	0.5130	0.6602	0.3734	0.4201	0.3918	0.4422	0.3844	0.5804	(0.0536)	(0.0532)	(0.0531)	(0.0532)	(0.0532)	(0.0532)	(0.0532)
8	2.3376	1.2055	0.9526	0.7239	0.5130	0.4882	0.3729	0.3585	0.3949	0.3869	0.3863	0.2790	0.3819	(0.0539)	(0.0532)	(0.0531)	(0.0532)	(0.0532)	(0.0532)	(0.0532)
12	1.6467	0.9478	0.7321	0.5132	0.6605	0.3731	0.4232	0.3940	0.4463	0.3850	0.5637	0.3838								
16	1.2028	0.7243	0.5130	0.4889	0.3733	0.3539	0.3922	0.3924	0.3884	0.5060	0.3813	0.5038								
24	0.9477	0.5134	0.6981	0.3737	0.4216	0.3877	0.4457	0.3851	0.5594	0.3854										
32	0.7258	0.4874	0.3734	0.3539	0.3930	0.3839	0.5650	0.6061	0.3884	0.5060										
48	0.5156	0.3723	0.4236	0.3217	0.2903	0.3854	0.2787	0.3831	0.5047											
64	0.2870	0.3003	0.3217	0.3850	0.5578	0.2798														
96	0.3716	0.3924	0.4446	0.3850	0.5578	(0.0529)	(0.0546)													
128	(0.0535)	(0.0541)	(0.0540)	(0.0534)	(0.0540)	(0.0529)	(0.0546)													
192	(0.0539)	(0.0550)	(0.0540)	(0.0538)	(0.0540)	(0.0529)	(0.0546)													
256	(0.0539)	(0.0553)	(0.0530)	(0.0538)	(0.0540)	(0.0529)	(0.0546)													
384	(0.0528)*	(0.0553)	(0.0530)	(0.0538)	(0.0540)	(0.0529)	(0.0546)													
512	0.0762	(0.0534)																		
768	(0.0540)																			
1024	(0.0543)																			

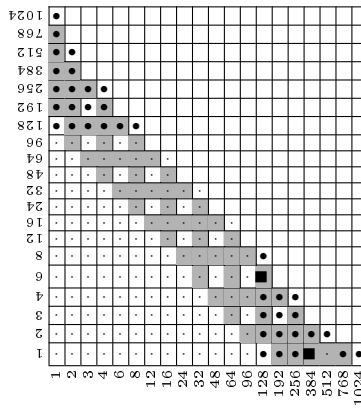


Table64. MB7 Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.20181	35.2036	23.6477	17.7512	12.0046	8.9950	6.0155	4.5741	3.0704	2.3329	1.7507	1.3474	1.0039	0.9765	1.4432	(0.0356)	(0.0356)	(0.0356)	(0.0356)	(0.0356)	(0.0357)
2	35.2930	17.8194	11.8706	9.0078	6.0358	4.5922	3.0620	2.3153	1.7601	1.3472	1.0034	0.7540	0.5886	0.4418	1.4527	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)
3	32.6209	11.9544	8.0024	6.0274	4.0688	3.0741	2.3019	1.7592	1.4063	1.2330	1.8083	1.4585	1.3859	1.4436	1.6306	(0.0365)	(0.0365)	(0.0365)	(0.0365)	(0.0365)	(0.0365)
4	17.8189	9.0291	6.0250	4.5788	3.0637	2.3254	1.7592	1.3489	1.4063	1.4513	1.3586	1.4615	1.4572	1.2081	1.4895	(0.0367)	(0.0367)	(0.0367)	(0.0367)	(0.0367)	(0.0367)
6	11.9048	6.0128	4.1419	3.0798	2.3017	1.7592	1.3984	1.4356	1.8174	1.4508	1.3884	1.4519	1.6272	1.0852							
8	6.0144	4.6183	3.0550	2.3328	1.7594	1.3475	1.4094	1.4399	1.4542	1.4453	1.4571	1.4556	1.4612	0.9716							
12	4.6121	2.9351	1.7580	1.3472	1.4080	1.4506	1.4476	1.4306	1.4562	1.4540	1.4581	1.4588									
16	3.0550	1.7593	1.7981	1.4076	1.4076	1.4488	1.4570	1.4524	1.4598	1.4508	1.4570	1.4570									
24	2.3226	1.3478	1.4435	1.4527	1.4570	1.4524	1.4614	1.4614	1.4614	1.4614	1.4614	1.4614									
32	1.7566	1.4050	1.7974	1.4862	1.3954	1.4614	1.4614	1.4614	1.4614	1.4614	1.4614	1.4614									
48	1.3474	1.4483	1.4481	1.3910	1.4571	1.6240	1.4552	1.4607	1.4590												
96	1.4300	1.4618	1.4618	1.3910	1.4571	1.6240	1.4552	1.4607	1.4590												
128	0.9713	1.0969	1.0870	0.9810	1.0837	0.9739															
192	1.4609	1.4534	1.6308	1.4520																	
256	(0.0356)	0.0374	(0.0358)	(0.0367)																	
384	(0.0356)	(0.0365)	(0.0358)	(0.0367)																	
512	(0.0356)*	(0.0358)	(0.0358)	(0.0367)																	
768	(0.0362)	(0.0362)	(0.0362)	(0.0362)																	
1024	0.0378																				

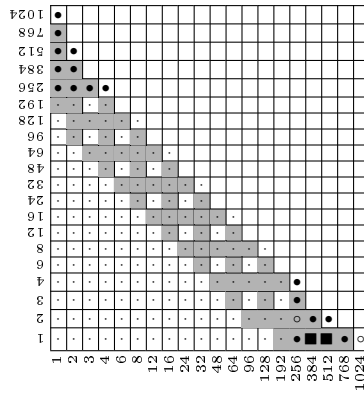


Table65. MB7 Fermi: Normal L1, size 192×192, milliseconds.

1	647.97	324.33	215.95	162.21	108.03	80.90	54.00	40.46	26.96	20.27	15.12	11.34	(10.68)	(10.68)	(10.67)	(10.69)	(10.64)	(10.65)
2	324.09	161.92	108.05	81.13	54.04	40.57	26.94	20.28	15.12	11.33	(10.68)	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)
3	216.27	108.08	71.81	53.98	38.05	26.99	20.16	15.11	14.24	(10.68)	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)	
4	162.08	81.04	53.93	40.40	26.90	20.21	15.11	14.25	(10.68)	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)		
6	107.85	54.09	35.95	27.02	20.16	15.11	11.33	(10.68)	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)			
8	80.84	40.51	27.00	20.28	15.11	11.33	(10.68)	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)				
12	53.80	27.04	20.14	15.11	11.33	(10.68)	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)					
16	40.53	20.21	15.11	14.24	(10.68)	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)						
24	26.99	15.11	11.33	(10.68)	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)							
32	20.23	11.33	(10.68)	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)								
48	15.11	(10.68)	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)									
64	11.33	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)										
96	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)											
128	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)											
192	(10.67)	(10.67)	(10.68)	(10.67)	(10.68)	(10.65)	(10.67)											
256	(10.67)	(10.67)	(10.68)	(10.67)	(10.68)	(10.65)	(10.67)											
384	(10.67)	(10.65)	(10.68)	(10.67)	(10.68)	(10.65)	(10.67)											
512	(10.67)	(10.67)	(10.65)	(10.68)	(10.67)	(10.68)	(10.65)											
768	(10.67)	(10.65)	(10.68)	(10.67)	(10.68)	(10.65)	(10.67)											
1024	(10.67)	(10.65)	(10.68)	(10.67)	(10.68)	(10.65)	(10.67)											

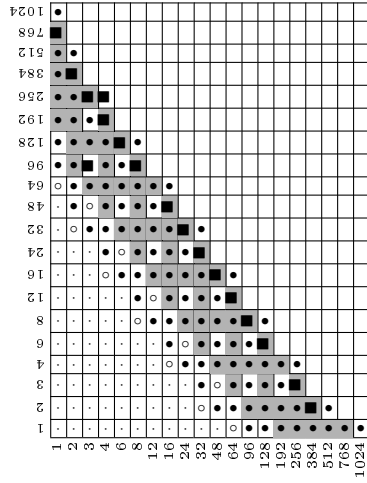


Table66. MB7 Fermi: Normal L1, size 18432×18432, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	17.8523	9.0025	6.0858	4.6050	3.0869	2.3483	1.6349	1.2002	0.9459	0.7236	0.5140	0.2871	0.3722	(0.0543)	(0.0548)	(0.0540)	(0.0536)	(0.0539)	(0.0538)	(0.0540)	
2	8.9911	4.6143	3.0799	2.3385	1.6393	1.2017	0.9483	0.7236	0.5139	0.4877	0.3713	0.3008	0.3917	(0.0535)*	(0.0547)	(0.0537)	(0.0541)	(0.0538)			
3	6.0352	3.0854	2.1118	1.6428	1.1783	0.9396	0.7312	0.5130	0.6991	0.3740	0.4163	0.3212	0.4435	(0.0536)	(0.0541)	(0.0537)					
4	4.5926	2.3445	1.6405	1.2039	0.9448	0.7226	0.5134	0.4875	0.3734	0.3532	0.3937	0.2896	0.3856	(0.0537)	(0.0538)	(0.0536)					
6	3.0806	1.6370	1.1784	0.9484	0.7317	0.5136	0.6605	0.3751	0.4169	0.3936	0.4420	0.3851	0.5620	(0.0541)							
8	2.3652	1.2003	0.9503	0.7230	0.5131	0.6997	0.3729	0.4249	0.3994	0.3823	0.3861	0.2793	0.3812	(0.0547)							
12	1.6409	0.9510	0.7305	0.5131	0.6997	0.3729	0.4249	0.3994	0.4465	0.3889	0.5583	0.3815									
16	1.2011	0.7209	0.5129	0.4887	0.3755	0.3537	0.3959	0.3885	0.3848	0.5017	0.3806	0.5028									
24	0.9410	0.5144	0.6998	0.3742	0.4226	0.3874	0.4456	0.3859	0.5608	0.3852											
32	0.7228	0.4870	0.3738	0.3522	0.3013	0.3924	0.3883	0.5052													
48	0.5132	0.3742	0.4199	0.3925	0.4478	0.3856	0.5659	0.3855													
64	0.2871	0.3016	0.3208	0.2906	0.3662	0.2788	0.3846														
96	0.3752	0.3942	0.4434	0.3849	0.5605																
128	(0.0537)	(0.0544)	(0.0546)	(0.0540)	(0.0538)	(0.0540)															
192	(0.0542)	(0.0540)	0.0661	(0.0546)																	
256	(0.0546)	(0.0545)	(0.0542)	(0.0553)																	
384	(0.0539)	(0.0546)																			
512	(0.0540)																				
768	(0.0539)																				
1024	(0.0536)																				

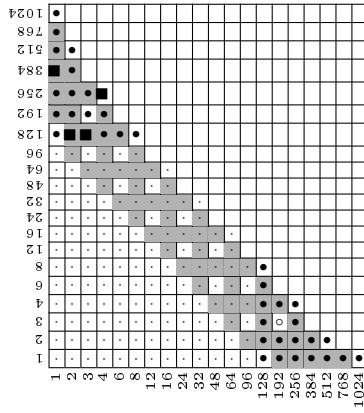


Table67. MB7 Fermi: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	648.83	324.09	216.19	162.08	107.88	80.86	53.90	40.51	27.04	20.29	15.12	11.34	(10.68)	(10.68)	(10.67)	(10.69)	(10.67)	(10.69)	(10.64)	(10.65)
2	324.12	161.81	108.05	80.90	54.00	40.43	28.90	20.22	15.12	11.33	(10.68)	(10.68)	(10.67)	(10.68)	(10.67)	(10.69)	(10.64)	(10.68)	(10.64)	(10.65)
3	215.74	108.11	72.06	54.09	35.95	27.02	20.16	15.11	14.24	11.84	(10.67)	(10.67)	(10.65)	(10.67)	(10.67)	(10.64)	(10.64)	(10.68)	(10.64)	(10.65)
4	162.08	80.92	54.07	40.52	28.97	20.20	15.11	14.24	(10.68)	(10.68)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
6	108.19	53.94	35.93	27.01	20.16	15.11	14.24	(10.68)	(10.67)	(10.66)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
8	80.90	40.51	28.97	20.23	15.11	14.24	(10.68)	(10.67)	(10.66)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
12	54.12	28.99	20.14	15.11	14.24	(10.68)	(10.67)	(10.67)	(10.66)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
16	40.43	20.20	15.11	14.24	(10.68)	(10.67)	(10.67)	(10.67)	(10.66)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
24	27.03	15.11	14.24	(10.68)	(10.67)	(10.67)	(10.67)	(10.67)	(10.66)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
32	20.26	11.33	(10.68)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.66)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
48	15.11	(10.68)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.66)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
64	11.33	(10.68)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.66)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
96	(10.68)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.66)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
128	(10.68)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.67)	(10.66)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
192	(10.67)	(10.67)	(10.68)	(10.68)	(10.65)	(10.67)	(10.65)	(10.67)	(10.67)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
256	(10.67)	(10.67)	(10.68)	(10.68)	(10.65)	(10.67)	(10.65)	(10.67)	(10.67)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
384	(10.67)	(10.67)	(10.68)	(10.68)	(10.65)	(10.67)	(10.65)	(10.67)	(10.67)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
512	(10.67)	(10.67)	(10.68)	(10.68)	(10.65)	(10.67)	(10.65)	(10.67)	(10.67)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
768	(10.67)	(10.67)	(10.68)	(10.68)	(10.65)	(10.67)	(10.65)	(10.67)	(10.67)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)
1024	(10.67)	(10.67)	(10.68)	(10.68)	(10.65)	(10.67)	(10.65)	(10.67)	(10.67)	(10.67)	(10.67)	(10.65)	(10.67)	(10.64)	(10.64)	(10.65)	(10.64)	(10.68)	(10.64)	(10.65)

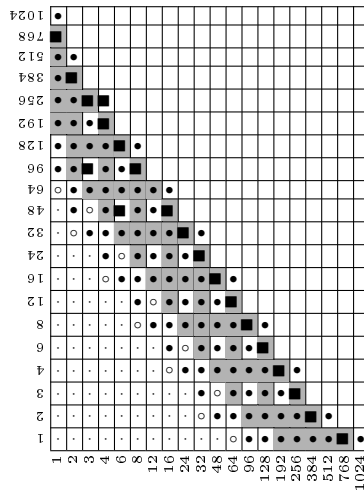


Table69. MB7 Fermi: Increased L1, size 18432×18432, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	17.7635	9.0098	6.0467	4.6032	3.0864	2.3454	1.6402	1.2034	0.9489	0.7230	0.5129	0.2876	0.3723	(0.0537)	(0.0534)	(0.0531)	(0.0538)	(0.0541)	(0.0544)	(0.0534)
2	9.0396	4.6043	3.0778	2.3396	1.6339	1.1938	0.9410	0.7230	0.5132	0.4883	0.3705	0.3006	0.3929	(0.0521)*	(0.0543)	0.0549	(0.0541)	0.0553		
3	6.0360	3.0765	2.1100	1.6477	1.1764	0.9481	0.7324	0.5134	0.6965	0.3736	0.4294	0.3209	0.4427	(0.0532)	(0.0533)	0.0550				
4	4.6195	2.3488	1.6383	1.2021	0.9462	0.7173	0.5127	0.4861	0.3730	0.3520	0.3921	0.2897	0.3851	(0.0533)	(0.0533)	0.0548				
6	3.0817	1.6373	1.1735	0.9510	0.7312	0.5136	0.3985	0.3711	0.4217	0.3943	0.4449	0.3863	0.5650	(0.0535)						
8	2.3463	1.2029	0.9440	0.7274	0.5130	0.4879	0.3730	0.3525	0.3946	0.3921	0.3888	0.2783	0.3797	(0.0535)						
12	1.6408	0.9453	0.7306	0.5132	0.6321	0.3728	0.4230	0.3933	0.4459	0.3870	0.5636	0.3832								
16	1.2031	0.7218	0.5118	0.4866	0.3727	0.3532	0.3947	0.3900	0.3883	0.5060	0.3805	0.5022								
24	0.9468	0.5124	0.6275	0.3723	0.4213	0.3953	0.4471	0.3847	0.5871	0.3845										
32	0.7249	0.4890	0.3720	0.3523	0.3959	0.3844	0.3850	0.5058												
48	0.5128	0.3718	0.4226	0.3936	0.4465	0.3878	0.5627	0.3822												
64	0.2865	0.3005	0.3207	0.2899	0.3848	0.2782	0.3825	0.5058												
96	0.3730	0.3930	0.4473	0.3882	0.5596	0.3824														
128	(0.0540)	(0.0530)	(0.0538)	(0.0531)	(0.0543)	(0.0533)														
192	(0.0533)	(0.0540)	(0.0534)	(0.0533)																
256	(0.0538)	(0.0536)	(0.0523)	(0.0533)																
384	0.0549																			
512	(0.0531)	(0.0537)																		
768	(0.0533)																			
1024	(0.0533)																			

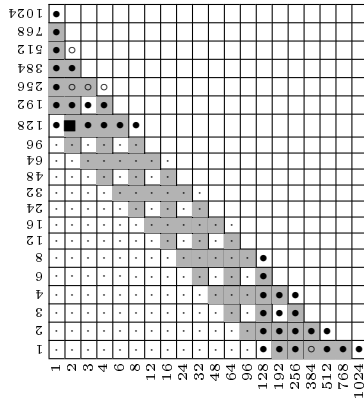


Table 70. MB7 Fermi: Without L1, size 96×96, milliseconds.

1	70.2663	35.3060	23.5876	17.8653	11.9249	8.9507	6.0270	4.5922	3.0462	2.3284	1.7601	1.3474	1.0115	0.9747	1.4581	0.0368	0.0364	0.0361	(0.0360)	(0.0347)	0.0343
2	35.2475	17.6930	11.9482	8.9974	6.0310	4.6007	3.0762	2.3268	1.7603	1.3475	1.0160	1.4572	1.4835	1.4443	1.4483	(0.0356)	(0.0359)	(0.0359)	(0.0359)	(0.0347)	
3	23.5542	11.8797	7.9914	6.0196	4.1186	3.0762	2.3024	1.7590	1.7631	1.4464	1.4593	1.4507	1.3900	1.4443	1.4307	(0.0356)	(0.0359)	(0.0359)	(0.0359)	(0.0347)	
4	17.8531	8.9796	6.0411	4.6036	3.0677	2.3937	1.7891	1.3474	1.4065	1.4476	1.4588	1.4540	1.4506	1.2061	1.0852	0.0363					
6	11.9198	8.0325	4.1188	3.0631	2.3023	1.7592	1.7879	1.4074	1.8104	1.4509	1.3892	1.4553	1.6253	1.0852							
8	9.0160	4.6037	3.0422	2.3371	1.7598	1.3472	1.3720	1.4518	1.4566	1.4534	1.4584	1.4497	1.4565	0.9712							
12	6.0272	3.0613	2.3009	1.7593	1.7593	1.4071	1.4530	1.8090	1.4486	1.3943	1.4564	1.6257	1.4580								
16	4.5831	2.3271	1.7589	1.3472	1.4071	1.4537	1.4862	1.4480	1.4584	1.4580	1.4577	1.4538									
24	3.0575	1.7594	1.8075	1.4083	1.8100	1.4567	1.3925	1.4593	1.4583	1.4565											
32	2.3263	1.3472	1.4058	1.4522	1.4569	1.4591	1.4816	1.4591	1.4592	1.4592											
48	1.7590	1.4083	1.7956	1.4568	1.3918	1.4420	1.6278	1.4800	1.4800	1.4800											
64	1.3471	1.4583	1.4834	1.4507	1.4562	1.4517	1.4565	1.4561													
96	1.4116	1.4506	1.3885	1.4563	1.6255	1.4593															
128	0.9714	1.0922	1.0849	0.9824	1.0879	0.9777															
192	1.4539	1.4485	1.4485	1.6302	1.4593																
256	(0.0344)	0.0361	(0.0357)	0.0369																	
384	(0.0347)	(0.0359)																			
512	(0.0353)	(0.0359)																			
768	(0.0358)																				
1024	(0.0358)																				

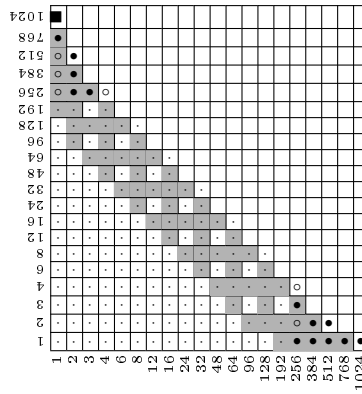


Table 71. MB7 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.8629	0.4639	0.3380	0.2801	0.1979	0.1772	0.1326	0.1139	0.1013	0.0832	0.0802	(0.0438)	(0.0444)	(0.0542)	(0.0530)	(0.0542)	(0.0544)	(0.0989)	(0.0584)	(0.0936)
2	0.4676	0.2700	0.1981	0.1668	0.1353	0.1142	0.1026	0.0827	0.0672	0.0765	0.0567	(0.0437)	(0.0444)	(0.0540)	(0.0541)	(0.0540)	(0.0540)	(0.0537)		
3	0.3562	0.2061	0.1546	0.1396	0.1031	0.1181	0.0847	0.0800	0.0644	(0.0444)	0.0559	(0.0436)	(0.0440)	(0.0938)	(0.0540)	(0.0927)				
4	0.2860	0.1810	0.1348	0.1135	0.1031	0.0835	0.0675	0.0767	(0.0438)	(0.0444)	0.0578	(0.0429)	(0.0438)	(0.0543)	(0.0538)	(0.0931)				
6	0.2239	0.1395	0.1106	0.0977	0.0846	0.0871	0.0774	0.0567	(0.0443)	(0.0441)	0.0578	(0.0434)	(0.0430)	(0.0543)	(0.0535)					
8	0.1856	0.1309	0.1024	0.0841	0.0684	0.0646	0.0575	(0.0437)	(0.0440)	(0.0440)	(0.0439)	(0.0440)	(0.0434)	(0.0545)						
12	0.1583	0.1047	0.0982	0.0676	0.0651	0.0570	(0.0444)	(0.0440)	(0.0446)	(0.0440)	(0.0611)	(0.0449)	(0.0440)	(0.0535)						
16	0.1169	0.0852	0.0679	0.0642	(0.0445)	(0.0441)	(0.0438)	(0.0430)	(0.0446)	(0.0455)	0.0568	0.0456								
24	0.1117	0.0679	0.0671	0.0564	(0.0445)	(0.0441)	(0.0437)	(0.0430)	(0.0486)	(0.0439)										
32	0.0912	0.0800	(0.0451)	(0.0443)	(0.0447)	(0.0441)	(0.0444)	(0.0444)	(0.0441)	0.0460										
48	0.0696	(0.0443)	(0.0441)	(0.0443)	(0.0440)	(0.0430)	(0.0444)	(0.0434)	(0.0441)											
64	0.0451	(0.0448)	(0.0443)	(0.0443)	(0.0435)	(0.0444)	(0.0444)	(0.0434)	(0.0441)											
96	0.0457	(0.0447)	(0.0449)	(0.0445)	0.0471	(0.0443)	0.0572	0.0454												
128	0.0540	0.0539	0.1011	0.0541	0.0583	0.0539														
192	0.0546	0.0533	0.0539	0.0533																
256	0.0533	0.0549	0.0546	0.0548																
384	0.0934	0.0533																		
512	0.0532																			
768	0.0545																			
1024	0.0930																			

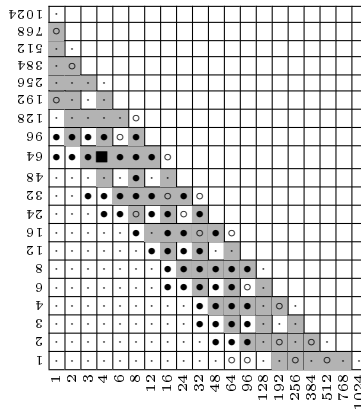


Table73. MB8 Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	12.0292	6.0566	4.0602	3.0741	2.0703	1.5694	1.0816	0.8325	0.5713	0.4560	0.3284	0.2488	0.1916	0.1014	0.1248	0.0360	0.0356	0.0362	0.0356	0.0363
2	6.0603	3.0759	2.0729	1.5672	1.0771	0.8323	0.5785	0.4465	0.310	0.2413	0.2013	0.1481	0.1206	0.1015	0.1522	0.0365	0.0364	0.0354*		
3	4.1578	2.1115	1.4338	1.034	0.7601	0.5759	0.4164	0.3308	0.2462	0.1916	0.1522	0.1208	0.1482	0.1010	0.1514	0.0368				
4	3.0798	1.5781	1.0820	0.8302	0.5842	0.4575	0.3385	0.2492	0.1924	0.1484	0.1222	0.1388	0.1461	0.1070	0.1501	0.0355				
6	2.1586	1.1233	0.7724	0.5975	0.4189	0.3306	0.2472	0.1991	0.1707	0.1211	0.1486	0.1429	0.1513	0.1078						
8	1.5752	0.8327	0.5820	0.4500	0.3412	0.2419	0.1918	0.1486	0.1252	0.1402	0.1453	0.1192	0.1587	0.1151						
12	1.1621	0.5984	0.4351	0.3384	0.2383	0.1920	0.1798	0.1184	0.1493	0.1389	0.1516	0.1600								
16	0.8386	0.4557	0.3303	0.2514	0.2004	0.1484	0.1288	0.1169	0.1307	0.1605	0.1504	0.1566								
24	0.6235	0.3417	0.2408	0.2006	0.1504	0.1169	0.1267	0.1605	0.1516	0.1527										
32	0.4810	0.2432	0.2015	0.1548	0.1219	0.1365	0.1428	0.1180	0.1506	0.1528										
48	0.3373	0.2022	0.1604	0.1270	0.1482	0.1415	0.1506	0.1152	0.1506	0.1570										
64	0.2457	0.1673	0.1202	0.1361	0.1584	0.1445	0.1475	0.1136	0.1125	0.1052										
96	0.1967	0.1190	0.1412	0.1481	0.1500	0.1475	0.1136	0.1125	0.1052											
128	0.1180	0.1045	0.1088	0.1136	0.1246															
192	0.11861	0.1174	0.1666	0.1246																
256	0.0355	0.0361	0.0370	0.0367																
384	0.0743	0.0748																		
512	0.0360	0.0357																		
768	0.0742																			
1024	0.0355																			

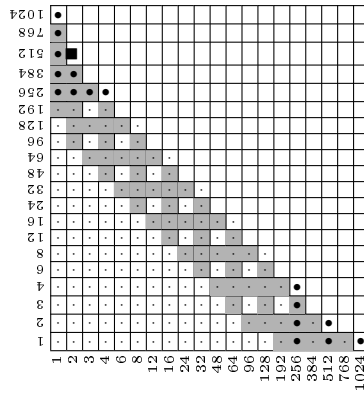


Table 74. MB8 Fermi: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	629.626	315.254	210.219	157.727	105.210	78.987	52.740	39.611	26.486	19.931	13.396	10.106	6.817	5.151	3.598	3.640	3.611	3.649	3.829	5.352
2	315.143	157.762	105.243	78.991	52.734	39.617	26.496	19.928	13.394	10.107	6.818	5.147	3.857	3.682	3.610	3.648	3.881	5.353		
3	215.614	107.931	72.014	54.079	36.132	27.146	18.217	13.713	9.222	6.925	4.502	3.646	3.933	3.682	4.746	3.892	3.881			
4	157.763	79.013	52.742	39.627	26.502	19.930	13.398	10.108	6.818	5.129	3.642	3.607	3.610	3.650	3.889	5.353				
6	110.681	55.425	37.013	27.816	18.654	14.033	9.432	7.117	4.601	3.824	4.023	3.769	4.860	3.978						
8	79.012	39.649	26.510	19.941	13.397	10.108	6.822	5.123	3.621	3.620	3.616	3.650	3.881	5.354						
12	58.059	29.105	19.492	14.653	9.822	7.395	4.805	4.005	4.163	3.936	5.043	4.131								
16	39.686	19.962	13.387	10.116	6.818	5.202	3.636	3.627	3.619	3.648	3.884	5.354								
24	31.673	15.867	10.587	7.951	5.185	4.886	4.445	4.260	5.393	4.423										
32	23.743	11.903	7.949	5.945	4.498	4.492	4.882	4.485	4.612	6.127										
48	15.871	7.956	5.321	4.477	4.596	4.357	5.398	4.646												
64	11.894	5.988	4.294	4.480	4.487	4.487	4.856	4.740	6.024											
96	7.914	4.041	4.443	4.490	4.490	4.888	5.964													
128	5.965	4.021	4.297	4.490	4.888															
192	4.518	4.044	5.265	4.871																
256	4.650	4.142	4.469																	
384	3.994	4.020																		
512	4.057	5.924																		
768	4.614																			
1024	6.478																			

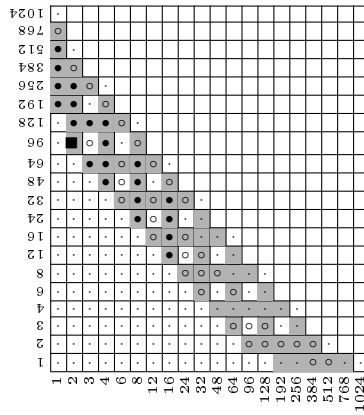


Table75. MB8 Fermi: Normal L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.6420	0.3524	0.2615	0.2165	0.1667	0.1441	0.1209	0.1045	0.0982	0.0745	0.0667	(0.0445)	(0.0444)	(0.0539)	0.0537	0.0563	0.0546	0.0544	0.0543	0.0541
2	0.3645	0.2151	0.1684	0.1450	0.1224	0.1072	0.0976	0.0738	0.0684	0.0527	(0.0433)	(0.0439)	(0.0442)	(0.0545)	0.0546	0.0549	0.0541	0.0543	0.0543	0.0541
3	0.2664	0.1703	0.1377	0.1228	0.1002	0.1002	0.0761	0.0668	0.0640	(0.0442)	(0.0443)	(0.0438)	(0.0435)	(0.0535)	0.0545	0.0534	0.0541	0.0543	0.0543	0.0541
4	0.2250	0.1486	0.1218	0.1097	0.0994	0.0760	0.0669	0.0527	(0.0442)	(0.0442)	(0.0443)	(0.0434)	(0.0435)	(0.0535)	0.0545	0.0534	0.0541	0.0543	0.0543	0.0541
6	0.1693	0.1206	0.1029	0.0911	0.0783	0.0676	0.0550	(0.0451)	(0.0442)	(0.0443)	(0.0441)	(0.0440)	(0.0440)	(0.0547)	0.0547	0.0544	0.0541	0.0543	0.0543	0.0541
8	0.1535	0.0885	0.0939	0.0790	0.0679	0.0563	(0.0433)	(0.0439)	(0.0443)	(0.0440)	(0.0477)	(0.0437)	(0.0440)	(0.0540)	0.0540	0.0544	0.0541	0.0543	0.0543	0.0541
12	0.1259	0.0835	0.0680	0.0676	0.0586	(0.0438)	(0.0438)	(0.0451)	(0.0443)	(0.0440)	(0.0459)	(0.0437)	(0.0440)	(0.0540)	0.0540	0.0544	0.0541	0.0543	0.0543	0.0541
16	0.1115	0.0803	0.0674	0.0564	(0.0440)	(0.0438)	(0.0437)	(0.0445)	(0.0445)	(0.0460)	(0.0435)	(0.0454)	(0.0440)	(0.0540)	0.0540	0.0544	0.0541	0.0543	0.0543	0.0541
24	0.0998	0.0675	0.0642	(0.0442)	(0.0443)	(0.0438)	(0.0437)	(0.0445)	(0.0445)	(0.0480)	(0.0435)	(0.0454)	(0.0440)	(0.0540)	0.0540	0.0544	0.0541	0.0543	0.0543	0.0541
32	0.0880	0.0521	(0.0446)	(0.0442)	(0.0443)	(0.0438)	(0.0437)	(0.0445)	(0.0445)	(0.0480)	(0.0435)	(0.0454)	(0.0440)	(0.0540)	0.0540	0.0544	0.0541	0.0543	0.0543	0.0541
48	0.0694	(0.0447)	(0.0442)	(0.0440)	(0.0443)	(0.0441)	(0.0447)	(0.0445)	(0.0445)	(0.0480)	(0.0435)	(0.0454)	(0.0440)	(0.0540)	0.0540	0.0544	0.0541	0.0543	0.0543	0.0541
64	(0.0451)	(0.0447)	(0.0442)	(0.0440)	(0.0443)	(0.0441)	(0.0447)	(0.0445)	(0.0445)	(0.0480)	(0.0435)	(0.0454)	(0.0440)	(0.0540)	0.0540	0.0544	0.0541	0.0543	0.0543	0.0541
96	0.0457	(0.0445)	(0.0440)	(0.0443)	0.0471	(0.0444)	(0.0433)*	0.0458	0.0439	0.0439	0.0439	0.0439	0.0439	0.0439	0.0439	0.0439	0.0439	0.0439	0.0439	0.0439
128	0.0547	0.0548	0.0540	0.0542	0.0536	0.0543														
192	0.0538	0.0540	0.0540	0.0538																
256	0.0535	0.0543	0.0538	0.0542																
384	0.0541	0.0534																		
512	0.0536																			
768	0.0545	0.0542																		
1024	0.0552																			

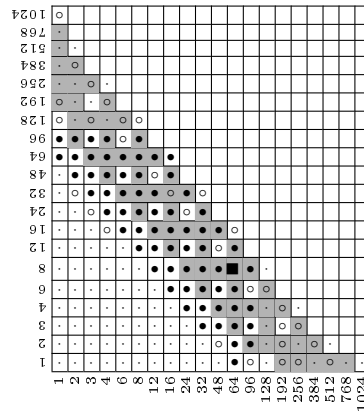


Table 76. MB8 Fermi: Increased L1, size 96×96, milliseconds.

1	4.6047	2.4094	1.6749	1.3100	0.9410	0.7619	0.5773	0.4502	0.3923	0.3463	0.3024	0.2708	0.1921	0.1021	0.1237	0.0380	0.0374	0.0364*	0.0379	0.0370	0.0370
2	2.4186	1.3176	0.9442	0.7623	0.5792	0.4826	0.3943	0.3443	0.3028	0.2410	0.1919	0.1483	0.1229	0.1017	0.1442	0.0379	0.0374	0.0364*	0.0379	0.0370	0.0370
3	1.7829	0.9729	0.7198	0.5959	0.4575	0.4086	0.3842	0.3032	0.1970	0.1919	0.1518	0.1248	0.1491	0.1013	0.1525	0.0383	0.0379	0.0364*	0.0379	0.0370	0.0370
4	1.3253	0.7715	0.5866	0.4857	0.3986	0.3906	0.3039	0.2381	0.1921	0.1483	0.1216	0.1186	0.1439	0.1059	0.1516	0.0377	0.0379	0.0364*	0.0379	0.0370	0.0370
6	1.0534	0.6050	0.4737	0.4064	0.3369	0.2827	0.2032	0.1914	0.1496	0.1208	0.1407	0.1425	0.1518	0.1089	0.1516	0.0377	0.0379	0.0364*	0.0379	0.0370	0.0370
8	0.7768	0.5008	0.4073	0.3478	0.3010	0.2921	0.1922	0.1483	0.1217	0.1227	0.1429	0.1182	0.1816	0.1075	0.1516	0.0377	0.0379	0.0364*	0.0379	0.0370	0.0370
12	0.6713	0.4147	0.3294	0.2644	0.2093	0.1863	0.1491	0.1151	0.1494	0.1275	0.1516	0.1525	0.1561	0.1075	0.1516	0.0377	0.0379	0.0364*	0.0379	0.0370	0.0370
16	0.5086	0.3531	0.3074	0.2235	0.1780	0.1485	0.1215	0.1364	0.1467	0.1186	0.1511	0.1561	0.1561	0.1075	0.1516	0.0377	0.0379	0.0364*	0.0379	0.0370	0.0370
24	0.4550	0.2834	0.2296	0.1843	0.1473	0.1168	0.1450	0.1364	0.1470	0.1186	0.1511	0.1561	0.1561	0.1075	0.1516	0.0377	0.0379	0.0364*	0.0379	0.0370	0.0370
32	0.3552	0.2109	0.1805	0.1462	0.1129	0.1328	0.1416	0.1183	0.1507	0.1155	0.1511	0.1561	0.1561	0.1075	0.1516	0.0377	0.0379	0.0364*	0.0379	0.0370	0.0370
48	0.3121	0.1884	0.1496	0.1125	0.1439	0.1393	0.1478	0.1183	0.1507	0.1155	0.1511	0.1561	0.1561	0.1075	0.1516	0.0377	0.0379	0.0364*	0.0379	0.0370	0.0370
64	0.2416	0.1587	0.1118	0.1215	0.1396	0.1162	0.1455	0.1515	0.1507	0.1155	0.1511	0.1561	0.1561	0.1075	0.1516	0.0377	0.0379	0.0364*	0.0379	0.0370	0.0370
96	0.1975	0.1280	0.1379	0.1553	0.1159	0.1455	0.1515	0.1515	0.1507	0.1155	0.1511	0.1561	0.1561	0.1075	0.1516	0.0377	0.0379	0.0364*	0.0379	0.0370	0.0370
128	0.1088	0.1082	0.1080	0.1119	0.1128	0.1051	0.1051	0.1051	0.1051	0.1051	0.1051	0.1051	0.1051	0.1051	0.1051	0.1051	0.1051	0.1051	0.1051	0.1051	0.1051
192	0.1204	0.1194	0.1164	0.1274	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385
256	0.0382	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381	0.0381
384	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377
512	0.0509	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379
768	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379	0.0379
1024	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368

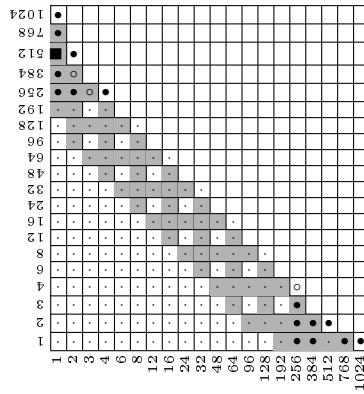


Table 77. MB8 Fermi: Increased L1, size 192×192, milliseconds.

1	629.514	314.885	210.006	157.562	105.130	78.898	52.688	39.572	26.467	19.908	13.385	10.097	6.813	5.115	3.516	2.561	1.908	1.415	1.024
2	314.910	157.582	105.136	78.910	52.695	39.573	26.470	19.909	13.386	10.097	6.813	5.132	3.515	2.543	1.908	1.415	1.024	0.768	0.5347
3	215.401	107.817	71.959	54.018	36.066	27.118	18.205	13.700	9.215	6.959	4.523	3.008	2.162	1.543	1.115	0.815	0.595	0.438	0.317
4	157.608	78.931	52.703	39.584	26.477	19.909	13.389	10.098	6.813	5.137	3.516	2.561	1.908	1.415	1.024	0.768	0.5347	0.3901	0.2848
6	110.519	55.368	36.984	27.784	18.688	14.020	9.436	7.111	4.502	3.295	2.385	1.750	1.287	0.943	0.693	0.512	0.375	0.278	0.204
8	78.956	39.605	26.484	19.921	13.388	10.098	6.817	5.138	3.516	2.561	1.908	1.415	1.024	0.768	0.5347	0.3901	0.2848	0.204	0.149
12	58.001	29.076	19.478	14.638	9.814	7.390	4.807	3.665	2.643	1.923	1.392	1.003	0.743	0.549	0.406	0.299	0.219	0.161	0.119
16	39.629	19.941	13.580	10.107	6.813	5.207	3.643	2.643	1.923	1.392	1.003	0.743	0.549	0.406	0.299	0.219	0.161	0.119	0.087
24	31.640	15.852	10.589	7.942	5.884	4.406	3.295	2.476	1.816	1.332	0.983	0.723	0.539	0.406	0.299	0.219	0.161	0.119	0.087
32	23.726	11.802	7.942	5.884	4.406	3.295	2.476	1.816	1.332	0.983	0.723	0.539	0.406	0.299	0.219	0.161	0.119	0.087	0.065
48	15.880	7.950	5.315	4.460	3.315	2.476	1.816	1.332	0.983	0.723	0.539	0.406	0.299	0.219	0.161	0.119	0.087	0.065	0.048
64	11.880	5.980	4.338	3.315	2.476	1.816	1.332	0.983	0.723	0.539	0.406	0.299	0.219	0.161	0.119	0.087	0.065	0.048	0.035
96	7.908	4.030	3.315	2.476	1.816	1.332	0.983	0.723	0.539	0.406	0.299	0.219	0.161	0.119	0.087	0.065	0.048	0.035	0.025
128	5.958	4.008	4.318	4.515	4.880	5.957													
192	4.022	4.011	5.257	4.994															
256	4.030	4.100	5.929																
384	3.989	4.031																	
512	4.049																		
768	4.190	5.916																	
1024	6.419																		

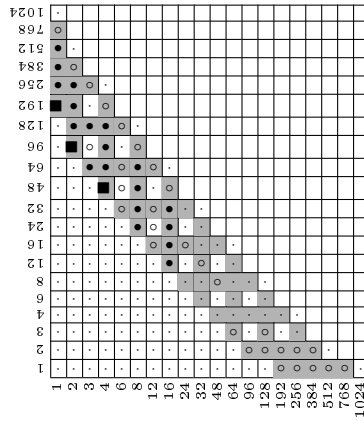


Table 78. MB8 Fermi: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	1.8052	0.9160	0.6197	0.4739	0.3192	0.2502	0.1784	0.1354	0.1116	0.0879	0.0655	(0.0433)	(0.0438)	(0.0654)	0.0529	0.0568	0.0539	0.0547	0.0537	0.0552	
2	0.9128	0.4763	0.3213	0.2509	0.1793	0.1362	0.1106	0.0996	0.0661	0.0653	(0.0429)	(0.0435)	(0.0430)	(0.0638)	0.0535	0.0540	0.0533	0.0535			
3	0.6330	0.3213	0.2280	0.1805	0.1331	0.1114	0.0879	0.0676	0.0644	0.0463	0.0454	(0.0427)	(0.0431)	(0.0639)	0.0535	0.0538					
4	0.4751	0.2522	0.1804	0.1364	0.1103	0.0882	0.0665	0.0644	(0.0430)	(0.0431)	(0.0428)	(0.0428)	(0.0431)	(0.0630)	0.0530	0.0540	0.0533				
6	0.3244	0.1821	0.1354	0.1132	0.0874	0.0669	0.0654	(0.0436)	(0.0436)	(0.0424)	(0.0424)	(0.0428)	(0.0432)	(0.0632)	0.0530	0.0540	0.0533				
8	0.2519	0.1361	0.1112	0.0885	0.0673	0.0646	0.0566	(0.0424)*	(0.0436)	(0.0433)	(0.0431)	(0.0428)	(0.0428)	(0.0632)	0.0530	0.0540	0.0533				
12	0.1850	0.1137	0.0896	0.0677	0.0657	0.0433	0.0450	(0.0436)	(0.0436)	(0.0430)	(0.0430)	(0.0432)	(0.0428)	(0.0633)							
16	0.1379	0.0900	0.0680	0.0648	(0.0438)	(0.0430)	(0.0434)	(0.0436)	(0.0436)	(0.0430)	(0.0430)	(0.0432)	(0.0428)	(0.0633)							
24	0.1175	0.0678	0.0687	(0.0442)	0.0458	(0.0430)	(0.0434)	(0.0436)	(0.0436)	(0.0430)	(0.0430)	(0.0432)	(0.0428)	(0.0633)							
32	0.0924	0.0665	(0.0443)	(0.0437)	(0.0436)	(0.0435)	(0.0434)	(0.0436)	(0.0436)	(0.0430)	(0.0430)	(0.0432)	(0.0428)	(0.0633)							
48	0.0738	0.0447	0.0457	(0.0435)	(0.0438)	(0.0434)	(0.0437)	(0.0436)	(0.0436)	(0.0430)	(0.0430)	(0.0432)	(0.0428)	(0.0633)							
64	0.0469	(0.0444)	(0.0442)	(0.0445)	(0.0438)	(0.0434)	(0.0437)	(0.0436)	(0.0436)	(0.0430)	(0.0430)	(0.0432)	(0.0428)	(0.0633)							
96	0.0480	(0.0443)	0.0445	(0.0438)	(0.0444)	(0.0441)	(0.0437)	(0.0436)	(0.0436)	(0.0430)	(0.0430)	(0.0432)	(0.0428)	(0.0633)							
128	0.0537	0.0537	0.0539	0.0530	0.0549	0.0541															
192	0.0664	0.0538	0.0549	0.0541																	
256	0.0539	0.0538	0.0544	0.0528																	
384	0.0540																				
512	0.0534	0.0539																			
768	0.0538																				
1024	0.0531																				

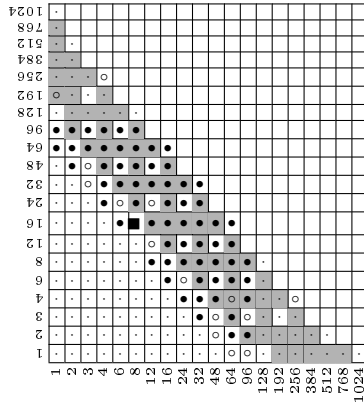


Table 79. MB8 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	14.1189	7.0713	4.7350	3.5444	2.3715	1.7940	1.2043	0.9136	0.6063	0.4661	0.3227	0.2363	0.1882	0.0989	0.1253	0.09454	0.0854	0.08692	0.08583	0.08566
2	7.0794	3.5500	2.3835	1.7872	1.2033	0.9133	0.6090	0.4646	0.3232	0.2355	0.1876	0.1450	0.1254	0.1112	0.1567	0.0987	0.0871	0.08682	0.08583	0.08566
3	4.6881	2.3552	1.5807	1.1949	0.8110	0.6054	0.4179	0.3249	0.2336	0.1879	0.1520	0.1246	0.1219	0.1113	0.1441	0.0965	0.0871	0.08682	0.08583	0.08566
4	3.5558	1.7992	1.2052	0.9170	0.6078	0.4654	0.3233	0.2359	0.1879	0.1446	0.1257	0.1257	0.1264	0.1114	0.1268	0.0949*	0.0871	0.08682	0.08583	0.08566
6	2.3725	1.2046	0.8182	0.6092	0.4224	0.3253	0.2343	0.1878	0.1515	0.1254	0.1222	0.1260	0.1444	0.1119	0.1268	0.0949*	0.0871	0.08682	0.08583	0.08566
8	1.7875	0.9191	0.6092	0.4662	0.3236	0.2359	0.1880	0.1454	0.1250	0.1254	0.1265	0.1267	0.1275	0.0999						
12	1.2263	0.6197	0.4291	0.3281	0.2404	0.1876	0.1516	0.1268	0.1221	0.1256	0.1443	0.1461								
16	0.9189	0.4697	0.3274	0.2365	0.1898	0.1455	0.1186	0.1265	0.1269	0.1264	0.1261	0.1461								
24	0.6481	0.3340	0.2481	0.1879	0.1519	0.1268	0.1217	0.1271	0.1439	0.1285										
32	0.4823	0.2407	0.1952	0.1459	0.1268	0.1260	0.1437	0.1269	0.1274	0.1461										
48	0.3824	0.1917	0.1662	0.1266	0.1213	0.1260	0.1437	0.1269												
64	0.2830	0.1493	0.1182	0.1265	0.1263	0.1268	0.1268	0.1268												
96	0.2021	0.1275	0.1124	0.1276	0.1442	0.1266	0.1271	0.1446												
128	0.1468	0.1126	0.1127	0.1120	0.1262	0.0997														
192	0.0376	0.0376	0.0370	0.0376	0.0376	0.0376	0.0376	0.0376												
256	0.0362	0.0362	0.0362	0.0362	0.0362	0.0362	0.0362	0.0362												
384	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359												
512	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359												
768	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353												
1024	0.0350	0.0350	0.0350	0.0350	0.0350	0.0350	0.0350	0.0350												

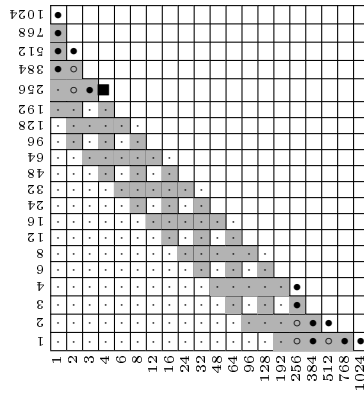


Table80. MB8 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.6116	0.3209	0.2216	0.1734	0.1211	0.0981	0.0746	0.0598	0.0504	0.0435	0.0397	0.0297	0.0355	0.0531	0.0527	0.0583	0.0534	0.0535	0.0547	0.0538
2	0.4029	0.2170	0.1494	0.1196	0.0893	0.0703	0.0597	0.0491	0.0412	0.0386	0.0351	0.0315	0.0384	0.0540	0.0526	0.0536	0.0541	0.0537		
3	0.3338	0.1782	0.1300	0.1055	0.0809	0.0686	0.0572	0.0405	0.0463	0.0343	0.0390	0.0312	0.0350	0.0538	0.0540	0.0540	0.0540	0.0540		
4	0.3049	0.1623	0.1199	0.0919	0.0773	0.0634	0.0458	0.0399	0.0379	0.0337	0.0357	0.0313	0.0383	0.0538	0.0538	0.0539	0.0541	0.0537		
6	0.2829	0.1511	0.1143	0.0852	0.0770	0.0600	0.0495	0.0350	0.0372	0.0358	0.0384	0.0356	0.0425	0.0542	0.0539	0.0544				
8	0.2614	0.1363	0.1135	0.0809	0.0593	0.0490	0.0401	0.0344	0.0367	0.0356	0.0361	0.0398	0.0357	0.0537						
12	0.2447	0.1482	0.1112	0.0875	0.0594	0.0424	0.0400	0.0357	0.0372	0.0366	0.0435	0.0462	0.0411							
16	0.2252	0.1435	0.0820	0.0675	0.0509	0.0436	0.0415	0.0356	0.0356	0.0355	0.0404	0.0356								
24	0.2549	0.1070	0.0906	0.0547	0.0500	0.0412	0.0423	0.0356	0.0356	0.0355	0.0404	0.0356								
32	0.2370	0.1088	0.0649	0.0563	0.0518	0.0405	0.0395	0.0356	0.0356	0.0355	0.0404	0.0356								
48	0.1865	0.0821	0.0678	0.0574	0.0523	0.0405	0.0384	0.0352	0.0384	0.0352	0.0384	0.0352								
64	0.0978	0.0630	0.0581	0.0450	0.0440	0.0352	0.0380	0.0398	0.0380	0.0398	0.0380	0.0398								
96	0.1284	0.0862	0.0749	0.0574	0.0541	0.0441	0.0462													
128	0.0337	0.0541	0.0583	0.0550	0.0548	0.0528														
192	0.0634	0.0543	0.0510	0.0538																
256	0.0540	0.0536	0.0534	0.0538																
384	0.0534	0.0539	0.0534	0.0534																
512	0.0534	0.0532																		
768	0.0528																			
1024	0.0539																			

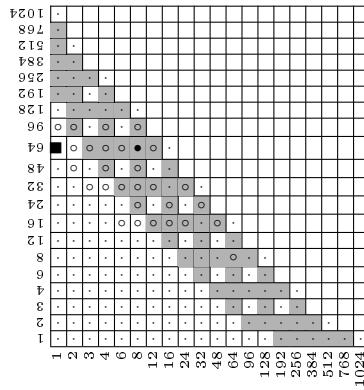


Table82. MB9 Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	4.5687	2.3212	1.5556	1.1796	0.7844	0.5927	0.4014	0.3095	0.2054	0.1588	0.1411	0.1104	0.1305	0.0907	0.1317	0.0959	0.0861	0.0856	0.0859	0.0867	0.0867
2	2.9382	1.4896	1.0008	0.7617	0.5133	0.3931	0.2812	0.2021	0.1503	0.1099	0.1209	0.1314	0.1292	0.1150	0.1297	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
3	2.4153	1.2316	0.8286	0.6273	0.4290	0.3184	0.2308	0.1508	0.1493	0.1193	0.1568	0.1391	0.1234	0.0942	0.1410	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
4	2.1474	1.0974	0.7390	0.5700	0.3761	0.2902	0.1794	0.1163	0.1126	0.1216	0.1287	0.1284	0.1302	0.1241	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
6	1.9092	0.9648	0.6700	0.4898	0.3479	0.2709	0.1560	0.1162	0.1107	0.1305	0.1193	0.1310	0.1401	0.1260	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
8	1.7799	0.9209	0.6049	0.4664	0.2723	0.1567	0.1300	0.1166	0.1107	0.1305	0.1272	0.1266	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
12	1.6583	0.8241	0.5488	0.3957	0.2146	0.1305	0.1351	0.1166	0.1109	0.1322	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
16	1.6323	0.8204	0.4316	0.2450	0.1813	0.1439	0.1308	0.1159	0.1103	0.1322	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
24	1.5726	0.6044	0.3616	0.2424	0.2303	0.1892	0.1344	0.1221	0.1168	0.1322	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
32	1.5778	0.4916	0.3336	0.3479	0.2791	0.1815	0.1428	0.1224	0.1168	0.1322	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
48	1.2638	0.7857	0.6122	0.5104	0.3116	0.1949	0.1428	0.1268	0.1291	0.1262	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
64	1.0600	0.8197	0.7280	0.4903	0.3372	0.2311	0.1618	0.1253	0.1291	0.1262	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
96	2.0687	1.8426	0.8636	0.6001	0.3099	0.2680	0.1687	0.1253	0.1291	0.1262	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
128	1.0033	1.4743	0.9204	0.7275	0.2996	0.1687	0.1687	0.1253	0.1291	0.1262	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
192	2.5854	1.4743	0.9204	0.7275	0.2996	0.1687	0.1687	0.1253	0.1291	0.1262	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
256	0.0358	0.0355	0.0355	0.0357	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355
384	0.0363	0.0363	0.0363	0.0364	0.0363	0.0363	0.0363	0.0363	0.0363	0.0363	0.0363	0.0363	0.0363	0.0363	0.0363	0.0363	0.0363	0.0363	0.0363	0.0363	0.0363
512	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367
768	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361	0.0361
1024	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358

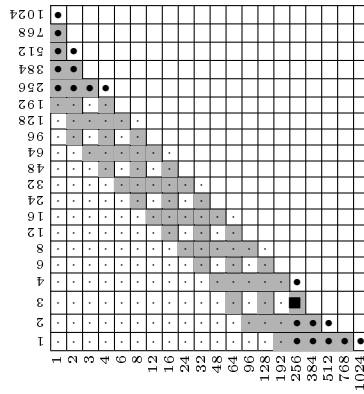


Table83. MB9 Fermi: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.6141	0.3213	0.2207	0.1738	0.1214	0.0977	0.0745	0.0593	0.0508	0.0429	0.0408	0.0303	0.0356	0.0545	0.0548	0.0538	0.0546	0.0538	0.0548	0.0542
2	0.4028	0.2153	0.1497	0.1201	0.0893	0.0707	0.0604	0.0505	0.0412	0.0351	0.0347	0.0315	0.0386	0.0541	0.0547	0.0550	0.0539	0.0536		
3	0.3327	0.1788	0.1297	0.1050	0.0813	0.0679	0.0574	0.0413	0.0457	0.0354	0.0367	0.0323	0.0377	0.0545	0.0543	0.0543	0.0547			
4	0.3044	0.1649	0.1208	0.0930	0.0780	0.0634	0.0531	0.0404	0.0353	0.0336	0.0356	0.0312	0.0361	0.0542	0.0543	0.0543	0.0547			
6	0.2836	0.1509	0.1131	0.0961	0.0768	0.0627	0.0499	0.0349	0.0371	0.0368	0.0385	0.0354	0.0428	0.0537	0.0537	0.0539				
8	0.2612	0.1371	0.1134	0.0900	0.0598	0.0495	0.0377	0.0347	0.0361	0.0358	0.0423	0.0397	0.0364	0.0388	0.0388					
12	0.2442	0.1484	0.1108	0.0875	0.0588	0.0390	0.0412	0.0361	0.0382	0.0358	0.0420	0.0360								
16	0.2253	0.1429	0.0821	0.0676	0.0432	0.0382	0.0408	0.0373	0.0356	0.0407	0.0360									
24	0.2042	0.1034	0.0576	0.0460	0.0444	0.0398	0.0388	0.0397	0.0386	0.0407	0.0360									
32	0.2077	0.1041	0.0576	0.0460	0.0444	0.0398	0.0388	0.0397	0.0386	0.0407	0.0360									
48	0.1751	0.0702	0.0602	0.0490	0.0479	0.0392	0.0390	0.0353	0.0381	0.0407										
64	0.0983	0.0623	0.0589	0.0485	0.0485	0.0384														
96	0.1174	0.0748	0.0688	0.0485	0.0581	0.0384														
128	0.0534	0.0543	0.0547	0.0552	0.0536	0.0543														
192	0.0540	0.0542	0.0544	0.0544	0.0535															
256	0.0535	0.0547	0.0543	0.0543																
384	0.0544	0.0547	0.0543	0.0543																
512	0.0545	0.0537																		
768	0.0558																			
1,024	0.0535																			

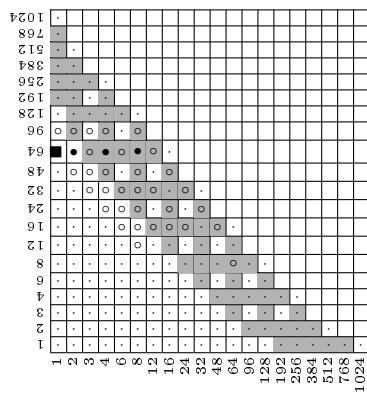


Table 85. MB9 Fermi: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	4.5706	2.3146	1.5467	1.1816	0.7841	0.5087	0.4020	0.3100	0.2058	0.1592	0.1418	0.1111	0.1300	0.0900	0.1297	0.0386	0.0872*	0.0375	0.0379	0.0383
2	2.9373	1.4916	1.0017	0.7647	0.5135	0.3930	0.2817	0.2027	0.1506	0.1102	0.1284	0.1299	0.1294	0.1069	0.1270	0.0375	0.0380	0.0385		
3	2.4150	1.2323	0.8328	0.6284	0.4307	0.3191	0.2312	0.1517	0.1489	0.1188	0.1585	0.1300	0.1251	0.1101	0.1411	0.0378				
4	2.1462	1.0968	0.7383	0.5701	0.3785	0.2907	0.1800	0.1173	0.1145	0.1266	0.1301	0.1306	0.1289	0.1048	0.1302	0.0389				
6	1.9094	0.9637	0.6854	0.4902	0.3485	0.2097	0.1561	0.1140	0.1369	0.1316	0.1212	0.1289	0.1395	0.0955						
8	1.7771	0.9173	0.6048	0.4663	0.2724	0.1664	0.1283	0.1134	0.1248	0.1308	0.1260	0.1324	0.1286	0.0900						
12	1.6470	0.8305	0.5475	0.3924	0.2013	0.1307	0.1311	0.1249	0.1185	0.1298	0.1378	0.1296								
16	1.6210	0.8164	0.4989	0.2444	0.1686	0.1309	0.1206	0.1151	0.1100	0.1281	0.1260	0.1285								
24	1.5217	0.8247	0.3421	0.2152	0.1686	0.1280	0.1227	0.1102	0.1171	0.1316										
32	1.5217	0.4253	0.3065	0.1955	0.1594	0.1295	0.1262	0.1250	0.1245	0.1278										
48	1.0857	0.4374	0.2000	0.1974	0.11575	0.1330	0.1327	0.1286												
64	0.7853	0.3055	0.2921	0.2033	0.1693	0.1290	0.1356	0.1266												
96	0.8084	0.5482	0.3376	0.2350	0.1761	0.1430														
128	0.5045	0.2804	0.2851	0.1638	0.1395	0.0985														
192	1.2721	0.5455	0.4210	0.2713																
256	0.0381	0.0388	0.0387	0.0396																
384	0.0380	0.0380																		
512	0.0380	0.0373																		
768	0.0385																			
1024	0.0376																			

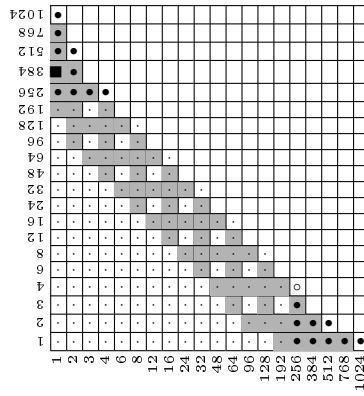


Table86. MB9 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	140.512	70.278	46.920	35.233	23.557	17.577	11.896	8.954	6.008	4.536	4.319	3.235	(3.105)	3.139	(3.117)	3.128	(3.084)	(3.068)	(3.087)	3.244
2	96.509	48.254	32.170	24.128	16.088	12.066	8.044	6.034	4.317	(3.086)	(3.081)	3.127	3.128	3.124	(3.086)	(3.072)	(3.080)	(3.068)	(3.087)	3.244
3	70.012	39.506	26.338	19.754	13.170	9.878	6.921	4.345	4.033	(3.119)	(3.084)	3.126	(3.080)	(3.093)	(3.081)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
4	70.275	35.138	23.325	17.569	11.714	8.785	5.209	3.279	(2.995)	(3.104)	(3.083)	(3.107)	(3.086)	(3.081)	(3.063)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
6	61.561	30.780	20.521	15.391	10.564	6.316	4.291	(2.994)	3.379	(3.122)	(3.093)	(3.107)	(3.086)	(3.081)	(3.063)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
8	57.221	28.607	19.072	14.303	7.956	4.602	3.374	(3.004)	(3.024)	(3.112)	(3.084)	(3.096)	(3.082)	(3.081)	(3.063)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
12	52.886	26.437	16.710	9.808	5.565	3.526	3.449	(3.017)	(2.968)	(3.084)	(3.047)	(3.086)	(3.082)	(3.081)	(3.063)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
16	51.094	25.548	12.675	7.486	4.693	3.453	3.229	(3.014)	(2.968)*	(3.071)	(3.028)	(3.086)	(3.082)	(3.081)	(3.063)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
24	48.918	17.980	10.210	6.287	4.548	3.457	3.221	(2.993)	(2.968)*	(3.071)	(3.028)	(3.086)	(3.082)	(3.081)	(3.063)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
32	47.735	13.158	9.567	6.330	4.467	3.457	3.221	(2.986)	(2.968)*	(3.071)	(3.028)	(3.086)	(3.082)	(3.081)	(3.063)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
48	37.934	13.703	12.194	8.395	4.476	3.457	3.221	(2.982)	(2.968)*	(3.071)	(3.028)	(3.086)	(3.082)	(3.081)	(3.063)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
64	57.637	23.420	14.494	8.543	4.560	3.477	3.228	(3.015)	(2.968)*	(3.071)	(3.028)	(3.086)	(3.082)	(3.081)	(3.063)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
96	79.263	28.029	13.865	8.452	4.901	3.486														
128	97.646	28.549	14.592	8.402	5.173	3.467														
192	124.798	29.122	13.225	8.372																
256	133.722	30.012	14.671	6.212																
384	131.256	30.510																		
512	135.476	24.142																		
768	161.199																			
1024	141.040																			

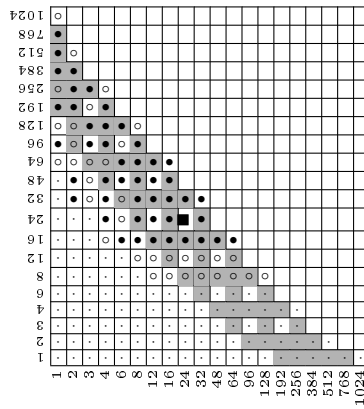


Table87. MB9 Fermi: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1.7501	0.9028	0.6137	0.4693	0.3183	0.2480	0.1793	0.1342	0.1101	0.0878	0.0663	(0.0424)	(0.0433)	0.0538	0.0527	0.0525	0.0538	0.0534	0.0536	0.0540
2	0.9889	0.5134	0.3435	0.2705	0.1942	0.1459	0.1176	0.0945	0.0712	0.0654	0.0456	(0.0434)	(0.0434)	0.0542	0.0539	0.0525	0.0532	0.0532		
3	0.7307	0.3767	0.2897	0.2093	0.1543	0.1274	0.1009	0.0704	0.0701	(0.0435)	0.0448	(0.0431)	(0.0431)	0.0525	0.0537	0.0543				
4	0.6058	0.3159	0.2260	0.1680	0.1363	0.1094	0.0744	0.0597	0.0465	(0.0435)	0.0458	(0.0435)	(0.0429)	0.0545	0.0658	0.0543				
6	0.4877	0.2582	0.1883	0.1551	0.1222	0.0795	0.0785	0.0461	0.0465	(0.0435)	0.0453	(0.0434)	(0.0437)	0.0773						
8	0.4102	0.2150	0.1736	0.1366	0.0895	0.0832	0.0505	0.0457	0.0449	(0.0435)	0.0460	(0.0424)*	(0.0433)	0.0527						
12	0.3576	0.1921	0.1533	0.0994	0.0961	0.0529	0.0508	0.0457	0.0449	(0.0432)	0.0460	(0.0428)								
16	0.3105	0.1749	0.1218	0.1033	0.0678	0.0521	0.0526	0.0472	0.0455	(0.0434)	0.0454	(0.0439)								
24	0.3267	0.1769	0.1433	0.0821	0.0705	0.0573	0.0580	0.0455	0.0454	(0.0433)										
32	0.3006	0.1704	0.1068	0.0761	0.0782	0.0579	0.0546	0.0463	0.0458	(0.0433)										
48	0.2933	0.1399	0.1125	0.0879	0.0782	0.0583	0.0638	0.0460	0.0458	(0.0433)										
64	0.1846	0.1160	0.0979	0.0863	0.0719	0.0506	0.0526	0.0466												
96	0.2326	0.1543	0.1292	0.0884	0.0950	0.0580														
128	0.0335	0.0531	0.0529	0.0538	0.0537	0.0533														
192	0.0328	0.0533	0.0537	0.0546																
256	0.0329	0.0541	0.0535	0.0544																
384	0.0339	0.0545																		
512	0.0334	0.0543																		
768	0.0338																			
1024	0.0341																			

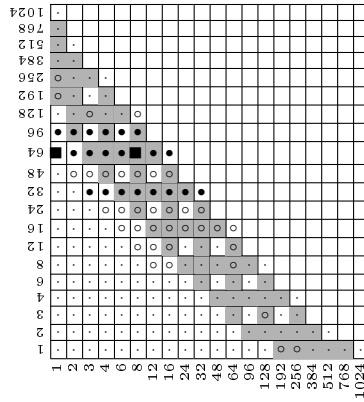


Table88. MB9 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	13.8767	6.9580	4.6540	3.5018	2.3377	1.7588	1.1846	0.8977	0.6009	0.4595	0.3222	0.2348	0.1867	0.1087	0.1279	0.0368	0.0356	0.0361	0.0361	0.0365
2	7.6350	3.8357	2.5632	1.9287	1.2974	0.9859	0.6567	0.5031	0.3533	0.2853	0.2040	0.1441	0.1001	0.1118	0.1268	0.0355	0.0355	0.0361	0.0361	0.0365
3	5.5721	2.7941	1.8757	1.4159	0.9661	0.7184	0.4979	0.3530	0.2560	0.1869	0.1563	0.1269	0.1219	0.1230	0.1438	0.0353	0.0353	0.0361	0.0361	0.0365
4	4.5309	2.2816	1.5844	1.1668	0.7781	0.5931	0.3878	0.2581	0.2070	0.1439	0.1258	0.1272	0.1274	0.1226	0.1289	0.0350	0.0350	0.0361	0.0361	0.0365
6	3.5048	1.7760	1.2139	0.8959	0.6288	0.4196	0.3042	0.2070	0.1509	0.1266	0.1212	0.1269	0.1433	0.1109	0.1286	0.0996	0.0996	0.0996	0.0996	0.0996
8	3.0023	1.5374	1.0133	0.7783	0.4891	0.3077	0.2509	0.1600	0.1300	0.1292	0.1259	0.1302	0.1286	0.1109	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
12	2.5113	1.2681	0.8525	0.5662	0.4179	0.2750	0.2340	0.1308	0.1300	0.1292	0.1259	0.1282	0.1286	0.1109	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
16	2.2915	1.1577	0.7413	0.4366	0.3179	0.2478	0.2036	0.1207	0.1300	0.1292	0.1259	0.1282	0.1286	0.1109	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
24	2.0104	1.0500	0.7413	0.4366	0.3179	0.2478	0.2036	0.1207	0.1300	0.1292	0.1259	0.1282	0.1286	0.1109	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
32	1.9266	0.9391	0.6803	0.4486	0.3510	0.2488	0.2212	0.1303	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563
48	1.9271	0.9152	0.6330	0.4548	0.3615	0.2610	0.2861	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563
64	1.8202	0.9014	0.6814	0.4588	0.3685	0.2420	0.2417	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622
96	1.8737	0.8742	0.6547	0.4803	0.3793	0.2870	0.2870	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622
128	1.1644	0.6295	0.4834	0.3617	0.3121	0.2033	0.2033	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622
192	1.7407	0.9877	0.7293	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437
256	(0.0362)	(0.0348)	(0.0348)*	(0.0362)	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*
384	(0.0362)	(0.0362)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)
512	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)
768	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370
1024	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368

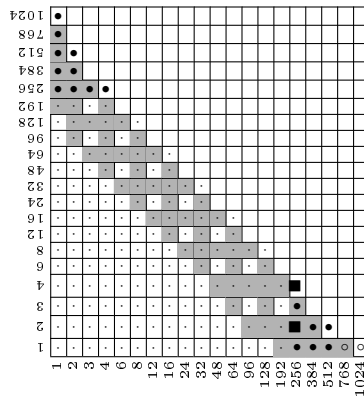


Table89. MB9 Fermi: Without L1, size 192×192, milliseconds.

1	450.261	225.133	150.091	112.570	75.053	56.280	37.532	28.151	18.773	14.082	9.411	7.062	4.740	3.589	3.119	3.089	3.092	3.093	3.103	3.710
2	243.663	123.333	82.226	61.671	41.117	30.839	20.583	15.423	10.325	7.048	5.189	3.875	3.121	3.093	3.093	3.087	3.088	3.095	3.103	3.710
3	179.353	89.679	59.788	44.842	29.897	22.423	15.041	10.324	6.952	4.722	3.515	3.117	3.091	3.088	3.223	3.088	3.088	3.095	3.103	3.710
4	145.831	72.918	48.614	36.461	24.310	18.233	11.317	7.767	5.254	3.572	3.083	3.092	3.091	3.081	3.084	3.088	3.088	3.095	3.103	3.710
6	112.524	56.262	37.511	28.134	18.315	12.291	8.291	5.252	3.622	3.118	3.061	3.078	3.212	3.080	3.084	3.088	3.088	3.095	3.103	3.710
8	96.016	48.010	32.007	24.006	14.318	9.318	6.388	4.017	3.680	3.091	3.040	3.078	3.078	3.592	3.084	3.088	3.088	3.095	3.103	3.710
12	79.793	39.898	25.875	16.430	11.063	7.549	5.980	3.830	3.623	3.075	3.503	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
16	72.922	36.462	20.878	13.035	10.232	7.010	5.790	3.616	3.598	3.062	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
24	65.615	32.088	21.010	13.935	10.430	6.974	5.824	3.602	3.817	3.096	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
32	61.653	28.985	19.777	13.917	10.429	6.971	5.826	3.627	3.658	3.174	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
48	59.397	27.868	20.307	14.122	10.492	6.971	6.001	3.664	3.658	3.174	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
64	56.138	27.831	20.364	14.194	10.471	6.969	6.870	4.282	3.658	3.174	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
96	120.720	48.616	20.744	14.194	10.460	6.998	7.017	4.282	3.658	3.174	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
128	129.449	52.628	21.946	14.409	10.456	7.017	7.017	4.282	3.658	3.174	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
192	135.683	58.966	22.386	14.648	10.456	7.017	7.017	4.282	3.658	3.174	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
256	137.711	60.392	22.386	14.648	10.456	7.017	7.017	4.282	3.658	3.174	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
384	141.301	61.454	22.386	14.648	10.456	7.017	7.017	4.282	3.658	3.174	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
512	143.841	61.454	22.386	14.648	10.456	7.017	7.017	4.282	3.658	3.174	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
768	144.168	61.454	22.386	14.648	10.456	7.017	7.017	4.282	3.658	3.174	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710
1024	148.676	61.454	22.386	14.648	10.456	7.017	7.017	4.282	3.658	3.174	3.619	3.078	3.619	3.592	3.084	3.088	3.088	3.095	3.103	3.710

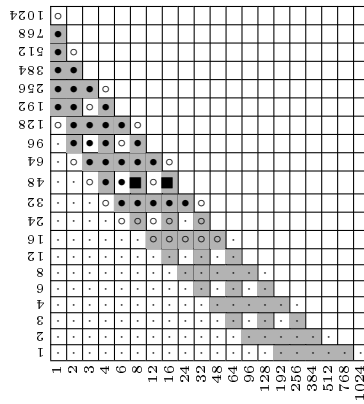


Table90. MB9 Fermi: Without L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	18.1445	9.2114	6.1757	4.7443	3.1188	2.4112	1.7062	1.2341	0.9089	0.7565	0.5302	0.3092	0.3891	(0.0530)	(0.0539)	(0.0542)	(0.0531)	(0.0534)	(0.0527)		
2	9.2154	4.7508	3.1186	2.4097	1.7005	1.2371	0.9031	0.7586	0.5401	0.5195	0.3947	0.3261	0.4126	(0.0536)	(0.0532)	(0.0538)	(0.0531)	(0.0534)			
3	6.1945	3.1204	2.1770	1.7051	1.2284	0.9992	0.7643	0.5397	0.7349	0.3974	0.4388	0.3449	0.4533	(0.0534)	(0.0532)	(0.0532)					
4	4.7539	2.4132	1.7069	1.2397	0.9963	0.7575	0.5403	0.5197	0.3976	0.3741	0.4141	0.3124	0.3996	(0.0532)	(0.0538)	(0.0542)					
6	3.1394	1.7131	1.2369	0.9388	0.7654	0.5392	0.7345	0.3806	0.4405	0.4005	0.4573	0.3991	0.5767	(0.0536)							
8	2.4161	1.2388	0.9996	0.7569	0.5386	0.5200	0.3924	0.3736	0.4163	0.4129	0.3964	0.3016	0.4028	(0.0534)							
12	1.7238	0.9977	0.7700	0.5414	0.7663	0.3962	0.4414	0.4124	0.4529	0.4016	0.5668	0.4020									
16	1.2408	0.7602	0.5409	0.5204	0.3904	0.3753	0.4145	0.4181	0.3975	0.4016	0.4084	0.5239									
24	1.0098	0.5452	0.7370	0.3944	0.4355	0.4128	0.4670	0.3988	0.5755	0.5156											
32	0.7624	0.5212	0.3939	0.3740	0.4167	0.4107	0.3974	0.4019	0.4015	0.5689	0.4019										
48	0.5503	0.3956	0.3435	0.4149	0.4553	0.4015	0.5689	0.4019	0.4015	0.5243											
64	0.3098	0.3256	0.3480	0.3121	0.3992	0.3022	0.4026	0.4086													
96	0.4001	0.4155	0.4583	0.4014	0.5699																
128	(0.0537)	(0.0532)	(0.0532)	(0.0546)	(0.0534)	(0.0531)															
192	(0.0539)	(0.0540)	(0.0538)	(0.0538)	(0.0538)																
256	(0.0535)	(0.0525)*	(0.0538)	(0.0538)																	
384	(0.0541)	(0.0535)	(0.0532)	(0.0541)																	
512	(0.0536)	(0.0533)																			
768	(0.0542)																				
1024	(0.0542)																				

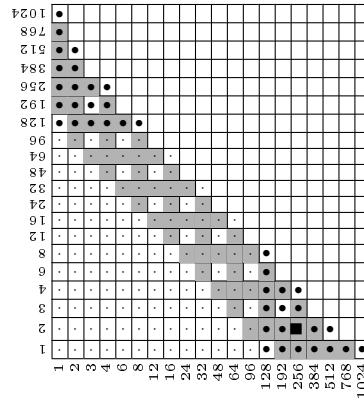


Table91. MB10 Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	699.865	350.166	233.482	175.210	116.861	87.741	58.576	43.989	29.405	22.120	14.914	11.244	7.964	6.226	4.853	4.393	4.470	4.555	4.837	5.124	5.513
2	349.997	175.168	116.836	87.723	58.549	43.995	29.414	22.119	14.913	11.243	7.965	6.213	4.851	4.393	4.468	4.555	4.837	5.112	5.400	5.688	6.077
3	238.819	119.513	79.728	59.897	40.003	30.063	20.242	15.230	10.760	8.110	5.391	4.387	4.551	4.516	4.591	4.677	4.763	4.849	4.935	5.021	5.107
4	175.105	87.668	58.502	43.987	29.400	22.119	14.915	11.245	7.981	6.237	4.853	4.394	4.557	4.512	4.587	4.673	4.759	4.845	4.931	5.017	5.103
6	122.182	61.190	40.848	30.720	20.594	15.550	10.961	8.263	5.430	4.432	4.615	4.571	4.617	4.650	4.683	4.716	4.749	4.782	4.815	4.848	4.881
8	87.693	43.930	29.354	22.111	14.861	11.245	7.954	6.186	4.853	4.740	4.677	4.617	4.557	4.497	4.437	4.377	4.317	4.257	4.197	4.137	4.077
12	63.814	31.975	21.452	16.140	11.310	8.542	5.955	4.526	4.740	4.677	4.617	4.557	4.497	4.437	4.377	4.317	4.257	4.197	4.137	4.077	4.017
16	43.883	22.058	14.813	11.211	7.882	6.187	4.982	4.880	4.880	4.880	4.880	4.880	4.880	4.880	4.880	4.880	4.880	4.880	4.880	4.880	4.880
24	34.588	17.375	12.126	9.097	7.211	4.796	4.010	5.091	5.047	5.047	5.047	5.047	5.047	5.047	5.047	5.047	5.047	5.047	5.047	5.047	5.047
32	25.946	13.048	9.084	6.070	4.897	5.100	5.014	5.253	5.255	5.255	5.255	5.255	5.255	5.255	5.255	5.255	5.255	5.255	5.255	5.255	5.255
48	17.393	9.103	6.070	4.897	5.100	5.184	5.356	7.180													
64	13.038	7.141	4.896	4.942	5.078	6.348	5.400														
96	9.059	4.788	5.216	5.078	5.424	7.121															
128	7.113	4.795	5.182	5.115	5.424	7.121															
192	5.406	4.903	6.353	5.309																	
256	5.197	5.024	5.177	7.092																	
384	5.131	5.164																			
512	5.896																				
768	5.529	7.071																			
1024	7.483																				

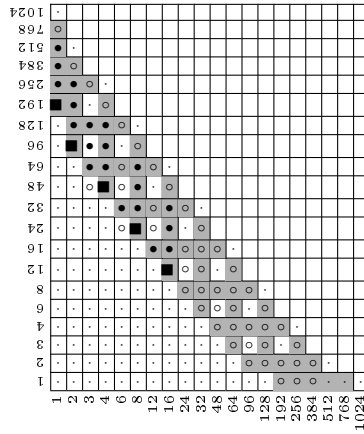


Table93. MB10 Fermi: Normal L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	17.9490	9.1016	6.0956	4.6845	3.0898	2.3913	1.6916	1.2300	0.9038	0.7475	0.5403	0.3085	0.3026	0.0540	0.0544	0.0535	0.0548	0.0544	0.0547	0.0554
2	9.1020	4.6862	3.0893	2.3942	1.6949	1.2287	0.9986	0.7482	0.5396	0.5106	0.3928	0.3281	0.4165	0.0535	0.0543	0.0536	0.0545	0.0539		
3	6.1035	3.0934	2.1514	1.6959	1.2168	0.9924	0.7592	0.5402	0.7257	0.3950	0.4379	0.3480	0.4538	0.0538	0.0532	0.0530				
4	4.6961	2.3922	1.6946	1.2306	0.9908	0.7460	0.5399	0.5106	0.3952	0.3760	0.4166	0.3120	0.4012	0.0541	0.0539					
6	3.0875	1.6824	1.2108	0.9828	0.7588	0.5396	0.6882	0.3922	0.4385	0.4005	0.4165	0.3964	0.5736	0.0537	0.0539					
8	2.4046	1.2928	0.9921	0.7513	0.5397	0.5117	0.3928	0.3760	0.4127	0.4111	0.4014	0.3016	0.4026	0.0536						
12	1.6878	0.9716	0.7591	0.5388	0.3861	0.3945	0.4413	0.4109	0.4522	0.3984	0.4747	0.4020								
16	1.2339	0.7516	0.5405	0.5139	0.3948	0.3750	0.4115	0.4124	0.3991	0.5169	0.4018	0.5251								
24	0.9970	0.5409	0.7316	0.3954	0.4359	0.4135	0.4019	0.5151	0.5671	0.4017										
32	0.7614	0.5112	0.3944	0.3759	0.4116	0.3986	0.5734	0.4029	0.4024	0.5242										
48	0.5496	0.3951	0.4324	0.4181	0.4543	0.3020	0.4013	0.5245												
64	0.3091	0.3266	0.4157	0.3978	0.5675	0.4039														
96	0.3969	0.4157	0.4548	0.3978	0.5675	0.4039														
128	(0.0546)	(0.0540)	(0.0543)	(0.0543)	(0.0547)	(0.0535)														
192	(0.0553)	(0.0540)	(0.0534)	(0.0534)	(0.0536)															
256	(0.0541)	(0.0549)	(0.0543)	(0.0537)																
384	(0.0539)	(0.0545)																		
512	(0.0532)*	(0.0536)																		
768	(0.0539)																			
1024	(0.0534)																			

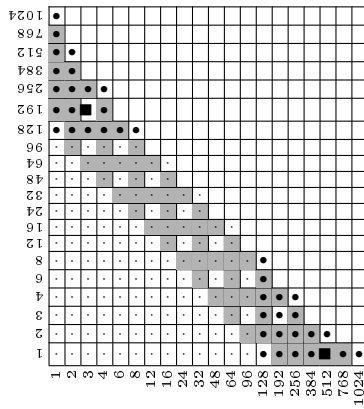


Table94. MB10 Fermi: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	73.7712	36.9610	24.8062	18.5884	12.5464	9.4645	6.3981	4.9128	3.3119	2.5002	1.9547	1.4602	1.5314	0.9300	0.2758	(0.0376)	(0.0372)	(0.0370)	(0.0375)	(0.0374)
2	36.9877	18.5883	12.6017	9.4652	6.3884	4.9135	3.3103	2.5637	1.9550	1.4804	1.5229	1.4704	1.2855	1.1678	1.3618	(0.0369)*	(0.0378)	(0.0380)	(0.0380)	
3	24.8027	12.5731	8.4936	6.4086	4.3908	3.2338	2.4769	1.9560	1.8988	1.5262	1.7228	1.3817	1.3891	1.1580	1.4791					
4	18.6004	9.4854	6.3933	4.9489	3.3099	2.5647	1.9536	1.4607	1.5433	1.4649	1.2838	1.3064	1.3841	1.0686	1.5464	(0.0372)				
6	12.6610	6.4005	4.3848	3.2808	2.4808	1.8768	1.9301	1.9056	1.5716	1.7225	1.2760	1.3442	1.3505	1.1644						
8	9.5175	4.9213	3.2554	2.5784	1.9540	1.8739	1.6095	1.5318	1.5514	1.2786	1.3031	1.3615	1.5441	1.0623						
12	6.4813	3.3040	2.5072	1.9082	1.5729	1.5625	1.4929	1.2817	1.3016	1.3668	1.2054	1.4838	1.5874							
16	4.9565	2.5706	1.9558	1.4619	1.5336	1.7045	1.2739	1.3380	1.5305	1.4719	1.5469									
24	3.3668	1.9197	1.9423	1.4584	1.4788	1.4584	1.2686	1.3681	1.3807	1.3014	1.5423									
32	2.5002	1.4887	1.7103	1.4584	1.4584	1.4584	1.2686	1.3681	1.3807	1.3014	1.5423									
48	1.9653	1.5884	1.4436	1.4584	1.4436	1.4436	1.2686	1.3681	1.3807	1.3014	1.5423									
64	1.5299	1.5638	1.4436	1.4584	1.4436	1.4436	1.2686	1.3681	1.3807	1.3014	1.5423									
96	1.5692	1.3687	1.4761	1.5331	1.7303	1.5380	1.5380	1.5380	1.5380	1.5380	1.5380									
128	1.0557	1.2873	1.4562	1.2727	1.5340	1.0521														
192	1.5428	1.3522	1.7215	1.5407																
256	(0.0370)	(0.0378)	0.03892	(0.0370)																
384	(0.0373)	(0.0381)																		
512	(0.0383)	(0.0370)																		
768	(0.0380)																			
1024	(0.0384)																			

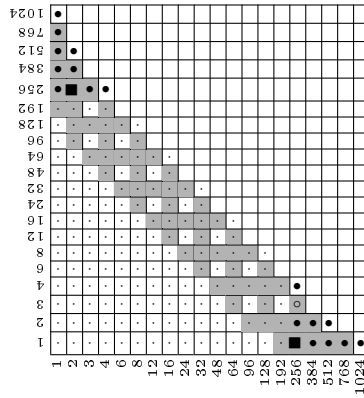


Table95. MB10 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	699.388	349.800	233.275	175.049	116.782	87.684	58.525	43.949	29.386	22.097	14.907	11.238	7.963	6.379	4.372*	4.436	4.503	4.590	4.813	4.818	6.508
2	339.763	174.991	116.733	87.642	58.511	43.980	29.389	22.098	14.907	11.236	7.961	6.185	4.372	4.435	4.502	4.590	4.813	4.818	6.509		
3	238.697	119.405	79.674	59.838	39.970	30.037	20.234	15.233	10.745	8.103	5.227	4.409	4.577	4.648	5.921	4.868					
4	174.953	87.587	58.464	43.931	29.375	22.099	14.909	11.238	7.954	6.180	4.373	4.436	4.500	4.590	4.814	6.509					
6	122.072	61.132	40.819	30.689	20.584	15.532	10.957	8.257	5.323	4.448	4.640	4.599	6.024	4.997							
8	87.549	43.886	29.329	22.091	14.866	11.239	7.959	6.178	4.372	4.436	4.503	4.593	4.814	6.510							
12	63.769	31.946	21.439	16.129	11.303	8.537	5.511	4.535	4.762	4.700	6.192	5.038									
16	43.846	22.039	14.807	11.294	7.882	6.181	4.997	4.903	4.903	4.508	4.817	6.509									
24	34.553	17.363	12.116	9.085	5.884	4.718	4.997	4.903	6.526	5.285											
32	25.927	13.937	9.079	7.178	4.893	4.938	5.042	5.065	5.327	7.283											
48	17.381	9.098	6.064	4.880	5.095	5.012	6.527	5.253													
64	13.024	7.167	4.896	4.941	5.087	5.182	5.352	7.173													
96	9.064	4.784	5.208	5.077	6.346	5.415															
128	7.106	4.801	5.113	5.116	5.434	7.114															
192	5.489	4.896	6.327	5.348																	
256	5.195	5.027	5.189	7.084																	
384	5.197	5.140																			
512	5.180																				
768	5.697	7.064																			
1024	7.417																				

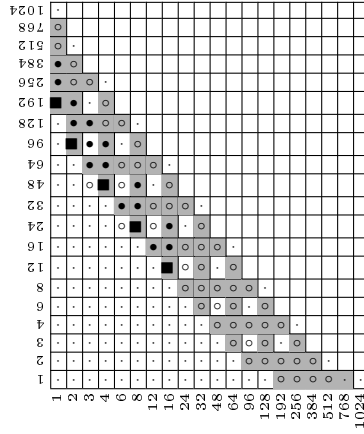


Table96. MB10 Fermi: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	19.1029	9.6665	6.4601	4.9612	3.2436	2.4996	1.7515	1.2617	1.0075	0.7620	0.5483	0.3079	0.3897	(0.0534)	(0.0540)	(0.0586)	(0.0521)	(0.0532)	(0.0543)	(0.0531)	
2	9.6705	4.9594	3.2422	2.4954	1.7540	1.2607	1.0060	0.7636	0.5484	0.5233	0.3875	0.3248	0.4080	(0.0538)	(0.0537)	(0.0532)	(0.0535)	(0.0540)			
3	6.4596	3.2446	2.2600	1.7548	1.2543	1.0060	0.7799	0.5482	0.7358	0.3912	0.4410	0.3435	0.4538	(0.0528)	(0.0537)	(0.0538)					
4	4.9638	2.4960	1.7500	1.2613	1.0094	0.7626	0.5478	0.5227	0.3943	0.3750	0.4084	0.3111	0.3957	(0.0533)	(0.0527)	(0.0533)					
6	3.2465	1.7548	1.2576	1.0076	0.7799	0.5488	0.5476	0.3879	0.4351	0.4074	0.3553	0.3048	0.3680	(0.0544)							
8	2.4988	1.2610	1.0087	0.7631	0.5468	0.5214	0.3902	0.3729	0.4119	0.4022	0.3971	0.3012	0.3977	(0.0534)							
12	1.7587	1.0076	0.7809	0.5488	0.5504	0.3892	0.4305	0.4007	0.4547	0.4022	0.3723	0.3077									
16	1.2619	0.7650	0.5486	0.5232	0.3934	0.3714	0.4069	0.4019	0.3973	0.5092	0.4008	0.5209									
24	1.0145	0.5498	0.7332	0.3922	0.4304	0.4067	0.4543	0.4019	0.5683	0.4000											
32	0.7683	0.5226	0.3935	0.3728	0.4057	0.3977	0.3997	0.5108													
48	0.5527	0.3940	0.4329	0.4068	0.4520	0.3013	0.5677	0.3980													
64	0.3109	0.3252	0.3447	0.3115	0.3971	0.3013	0.4082	0.5175													
96	0.3928	0.4108	0.4579	0.3985	0.5671	0.4006															
128	(0.0532)	(0.0538)	(0.0532)	(0.0529)	(0.0535)	(0.0535)															
192	(0.0537)	(0.0519)*	(0.0531)	(0.0531)	(0.0533)																
256	(0.0542)	(0.0537)	(0.0533)	(0.0533)																	
384	(0.0532)	(0.0537)	(0.0533)	(0.0533)																	
512	(0.0529)	(0.0532)																			
768	(0.0525)																				
1024	(0.0538)																				

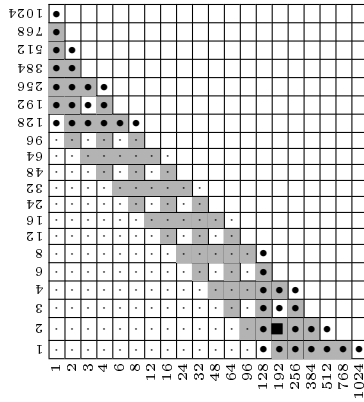


Table97. MB10 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	688131	341702	227862	171027	114092	85671	57194	42985	28733	21641	14577	11022	7795	6173	4411	4397*	4586	4595	4628	5256
2	341664	170967	114038	85661	57179	42987	28736	21642	14577	11022	7794	6175	4418	4422	4514	4507	4629	4629	4628	5256
3	233422	116830	77947	58565	39112	29417	19739	14865	10480	7920	5834	4665	4882	4698	5763	4712	4629	4629	4628	5256
4	170933	86603	57128	42977	28724	21642	14579	11022	7801	6173	4408	4465	4581	4597	4629	4712	4629	4629	4628	5256
6	119586	59904	39091	30078	20021	15120	10372	8050	5977	4751	4980	4764	4861	4770	4629	4629	4629	4629	4628	5256
8	85594	42912	28669	21609	14429	10324	7245	6165	4614	4611	4686	4644	4660	4629	4629	4629	4629	4629	4628	5256
12	62936	31538	20852	15686	11037	8325	6166	4868	4666	4664	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
16	43292	21766	14439	10881	7743	6211	4868	4668	4666	4664	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
24	34744	17093	11939	8888	6570	5181	4407	5154	6384	5141	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
32	25850	12702	9013	7083	5290	5188	3407	5154	6384	5141	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
48	17787	9126	6790	5366	5618	5324	3617	5357	5188	5141	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
64	13281	7273	5493	5524	5489	5524	3927	7474	5188	5141	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
96	9413	5447	5843	5711	6611	5704	4892	6892	5188	5141	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
128	7558	5538	5857	6016	5489	6892	6892	6892	5188	5141	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
192	5564	5617	6329	5011	6844	6844	6844	6844	5188	5141	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
256	5631	5740	5061	6844	6844	6844	6844	6844	5188	5141	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
384	5700	5027	5061	6844	6844	6844	6844	6844	5188	5141	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
512	5762	6892	6892	6892	6892	6892	6892	6892	5188	5141	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
768	5760	6892	6892	6892	6892	6892	6892	6892	5188	5141	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256
1024	7438	6892	6892	6892	6892	6892	6892	6892	5188	5141	4679	4669	4660	4629	4629	4629	4629	4629	4628	5256

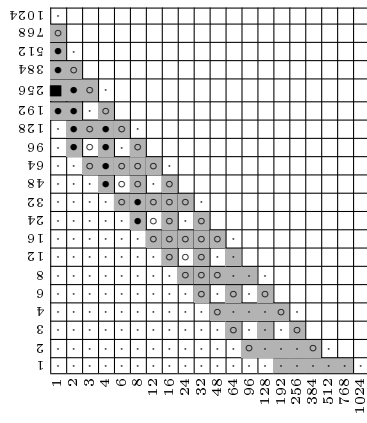


Table99. MB10 Fermi: Without L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	17.9282	9.0770	6.0609	4.6626	3.0482	2.3482	1.6446	1.1836	0.9435	0.7172	0.5245	0.2949	0.3805	(0.0543)	(0.0539)	(0.0531)	(0.0543)	(0.0543)	(0.0530)	(0.0537)
2	9.1573	4.7008	3.0768	2.3664	1.6580	1.1952	0.9552	0.7293	0.5259	0.4064	0.3772	0.3116	0.4042	(0.0543)	(0.0543)	(0.0535)	(0.0535)	(0.0543)	(0.0533)	
3	6.1694	3.0997	2.1498	1.6758	1.2021	0.9627	0.7520	0.5263	0.7723	0.3806	0.4277	0.3342	0.4577	(0.0536)	(0.0533)	(0.0534)				
4	4.7000	2.4077	1.6908	1.2191	0.9708	0.7365	0.5283	0.4986	0.3750	0.3619	0.4088	0.2981	0.4007	(0.0533)	(0.0533)	(0.0534)				
6	3.1856	1.7500	1.2348	0.9916	0.7704	0.5330	0.3889	0.3786	0.4298	0.4066	0.4611	0.3989	0.5849	(0.0544)	(0.0533)	(0.0531)				
8	2.4967	1.2617	1.0095	0.7640	0.5407	0.5084	0.3859	0.3608	0.4016	0.4020	0.4087	0.2868	0.3985	(0.0535)						
12	1.8156	1.0456	0.8013	0.5490	0.7315	0.3888	0.4352	0.4085	0.4644	0.4020	0.5862	0.4019								
16	1.3491	0.8155	0.5617	0.5276	0.3900	0.3651	0.4058	0.4020	0.4003	0.4003	0.3979	0.5252								
24	1.1497	0.5878	0.6636	0.3931	0.4410	0.4048	0.4643	0.4020	0.5841	0.4003										
32	0.9272	0.5662	0.4064	0.3792	0.4158	0.4086	0.4047	0.5264												
48	0.6664	0.4240	0.4578	0.4196	0.4743	0.2912	0.5919	0.4012												
64	0.3622	0.3423	0.3548	0.3111	0.4080	0.2912	0.4026	0.5267												
96	0.4746	0.4492	0.4918	0.4207	0.6059	0.4084														
128	(0.0532)	(0.0531)	(0.0533)	(0.0539)	(0.0537)	(0.0537)	(0.0540)													
192	(0.0548)	(0.0539)	(0.0537)	(0.0538)																
256	(0.0538)	(0.0524)*	(0.0540)	(0.0537)																
384	(0.0534)	(0.0541)																		
512	(0.0535)	(0.0549)																		
768	(0.0539)																			
1024	(0.0532)																			

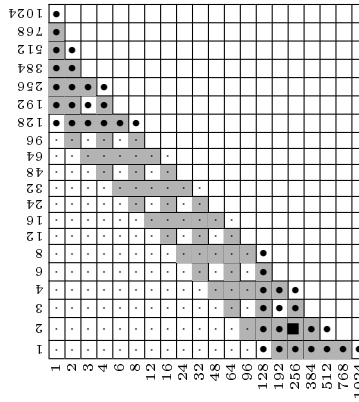


Table100. MB11 Fermi: Normal L1, size 96×96, milliseconds.

1	73.7505	36.9003	24.6752	18.4625	12.4518	9.3440	6.2407	4.7004	3.1314	2.4061	1.8520	1.4291	1.1205	0.8660	0.6600	0.4956	0.3659	0.2768	0.2024
2	37.5623	18.7052	12.6854	9.5252	6.3558	4.8844	3.1876	2.4922	1.8338	1.4289	1.1229	0.8502	0.6580	0.4939	0.3764	0.2858	0.2151	0.1588	0.1192
3	25.5652	12.9087	8.6835	6.4656	4.4637	3.2108	2.1816	1.6922	1.3140	1.0460	0.8133	0.6288	0.4818	0.3688	0.2811	0.2148	0.1618	0.1208	0.0908
4	19.4691	9.8550	6.5779	5.0563	3.2946	2.5351	1.8869	1.4356	1.1594	0.9113	0.7007	0.5433	0.4193	0.3207	0.2466	0.1893	0.1443	0.1093	0.0823
6	13.5014	6.8034	4.7060	3.4129	2.5889	1.9148	1.4924	1.1637	0.9524	0.7414	0.5730	0.4438	0.3463	0.2693	0.2066	0.1553	0.1163	0.0863	0.0653
8	10.5405	5.4045	3.5288	2.7146	1.9712	1.4751	1.1789	0.9637	0.7670	0.5974	0.4686	0.3622	0.2809	0.2162	0.1632	0.1222	0.0912	0.0682	0.0512
12	7.4968	3.7556	2.7745	2.0305	1.6660	1.4547	1.1930	0.9699	0.7916	0.6118	0.4745	0.3671	0.2855	0.2198	0.1668	0.1258	0.0948	0.0718	0.0548
16	6.1171	3.0689	2.1233	1.5841	1.5981	1.3687	1.1368	0.9699	0.7916	0.6118	0.4745	0.3671	0.2855	0.2198	0.1668	0.1258	0.0948	0.0718	0.0548
24	4.4756	2.3087	1.9835	1.6163	1.6452	1.3909	1.1488	0.9677	0.7684	0.5816	0.4507	0.3432	0.2616	0.1999	0.1479	0.1069	0.0759	0.0549	0.0419
32	3.8296	1.9000	1.7142	1.7407	1.6875	1.4624	1.1880	0.9595	0.7584	0.5816	0.4507	0.3432	0.2616	0.1999	0.1479	0.1069	0.0759	0.0549	0.0419
48	3.5624	2.1900	2.0544	1.6920	1.6212	1.6244	1.4057	1.1732	0.9575	0.7532	0.5732	0.4433	0.3363	0.2547	0.1930	0.1420	0.1010	0.0700	0.0490
64	2.9541	2.1940	1.7551	1.6920	1.6212	1.6244	1.4057	1.1732	0.9575	0.7532	0.5732	0.4433	0.3363	0.2547	0.1930	0.1420	0.1010	0.0700	0.0490
96	3.3743	2.2498	1.9398	1.6648	1.6629	1.6629	1.3870	1.1212	0.9585	0.7532	0.5732	0.4433	0.3363	0.2547	0.1930	0.1420	0.1010	0.0700	0.0490
128	1.8809	1.5298	1.5710	1.2950	1.3585	1.1212	0.9585	0.7532	0.5732	0.4433	0.3363	0.2547	0.1930	0.1420	0.1010	0.0700	0.0490	0.0380	0.0270
192	3.2182	2.5209	2.5089	2.0686	2.0686	2.0686	2.0686	2.0686	2.0686	2.0686	2.0686	2.0686	2.0686	2.0686	2.0686	2.0686	2.0686	2.0686	2.0686
256	(0.0357)	(0.0356)	(0.0356)	(0.0358)	(0.0358)	(0.0358)	(0.0358)	(0.0358)	(0.0358)	(0.0358)	(0.0358)	(0.0358)	(0.0358)	(0.0358)	(0.0358)	(0.0358)	(0.0358)	(0.0358)	(0.0358)
384	0.0361	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)	(0.0355)
512	0.0370	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)
768	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)	(0.0353)
1024	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)	(0.0354)

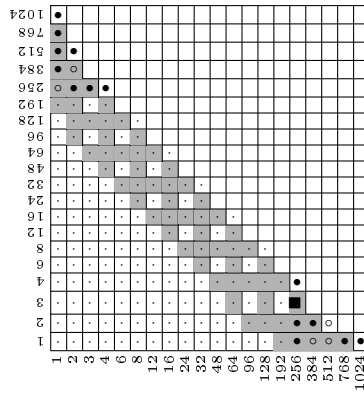


Table101. MB11 Fermi: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	221.609	110.800	73.869	55.401	38.932	27.699	18.465	13.849	9.233	6.922	5.703	(4.278)	(4.298)	(4.290)	(4.263)	(4.258)	(4.234)	(4.216)	(4.205)	(4.213)
2	131.874	65.935	43.958	32.968	21.978	16.485	10.990	8.242	5.980	(4.263)	(4.243)	(4.270)	(4.275)	(4.264)	(4.233)	(4.225)	(4.232)	(4.216)	(4.205)	(4.213)
3	102.603	51.303	34.205	25.651	17.102	12.825	9.119	5.990	5.617	(4.262)	4.736	(4.274)	(4.210)	(4.254)	(4.238)	(4.226)	(4.232)	(4.216)	(4.205)	(4.213)
4	88.011	44.007	29.338	22.006	14.670	11.024	6.924	4.564	(4.212)	(4.259)	(4.246)	(4.252)	(4.203)	(4.228)	(4.209)	(4.300)	(4.232)	(4.216)	(4.205)	(4.213)
6	73.690	36.878	24.587	18.434	13.161	7.921	6.007	(4.214)	(4.690)	(4.275)	(4.215)	(4.239)	(4.303)	(4.228)	(4.209)	(4.300)	(4.232)	(4.216)	(4.205)	(4.213)
8	67.981	34.304	22.889	17.187	10.596	6.525	5.024	(4.213)	(4.217)	(4.254)	(4.219)	(4.232)	(4.222)	(4.308)	(4.209)	(4.300)	(4.232)	(4.216)	(4.205)	(4.213)
12	68.991	34.438	22.275	13.456	9.285	5.811	4.899	(4.218)	(4.207)	(4.252)	(4.192)	(4.278)	(4.222)	(4.308)	(4.209)	(4.300)	(4.232)	(4.216)	(4.205)	(4.213)
16	66.343	33.420	18.488	12.850	6.022	5.493	4.899	(4.218)	(4.207)	(4.252)	(4.192)	(4.278)	(4.222)	(4.308)	(4.209)	(4.300)	(4.232)	(4.216)	(4.205)	(4.213)
24	106.137	49.723	33.372	21.869	13.254	8.163	5.274	(4.218)	(4.207)	(4.252)	(4.192)	(4.278)	(4.222)	(4.308)	(4.209)	(4.300)	(4.232)	(4.216)	(4.205)	(4.213)
32	109.776	55.156	36.115	24.699	15.527	8.224	5.178	(4.218)	(4.207)	(4.252)	(4.192)	(4.278)	(4.222)	(4.308)	(4.209)	(4.300)	(4.232)	(4.216)	(4.205)	(4.213)
48	120.419	57.158	38.948	24.924	15.655	8.084	5.716	(4.185)	(4.192)	(4.255)	(4.192)	(4.278)	(4.222)	(4.308)	(4.209)	(4.300)	(4.232)	(4.216)	(4.205)	(4.213)
96	141.438	68.001	38.503	24.710	14.084	8.458														
128	159.222	65.526	39.524	24.951	15.754	7.015														
192	173.557	69.480	36.991	24.560																
256	178.712	70.715	40.502	23.218																
384	182.570	75.507																		
512	184.553																			
768	188.326	61.860																		
1024	188.450																			

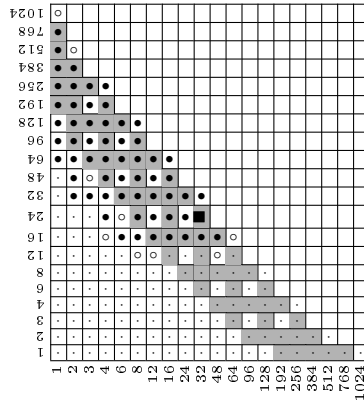


Table102. MB11 Fermi: Normal L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	17.9348	9.0778	6.0581	4.6580	3.0498	2.3454	1.6438	1.1873	0.9420	0.7173	0.5244	0.2941	0.3833	0.0530	0.0544	0.0535	0.0546	0.0542	0.0543	0.0532
2	9.1648	4.7034	3.0736	2.3677	1.6596	1.1961	0.9538	0.7211	0.5255	0.4964	0.3805	0.3116	0.4053	0.0538	0.0544	0.0532	0.0546	0.0542		
3	6.1791	3.1054	2.1507	1.6738	1.1973	0.9640	0.7503	0.5255	0.7252	0.3831	0.4285	0.3834	0.4637	0.0538	0.0542	0.0536				
4	4.7893	2.4123	1.6912	1.2181	0.9700	0.7350	0.5291	0.4987	0.3773	0.3606	0.4092	0.2984	0.4023	0.0538	0.0542	0.0536				
6	3.1877	1.7214	1.2334	0.9923	0.7708	0.5332	0.5359	0.3833	0.4320	0.4121	0.4580	0.2863	0.5814	0.0542	0.0544					
8	2.4986	1.2623	1.0103	0.7635	0.5401	0.5068	0.3849	0.3600	0.4617	0.4015	0.4092	0.2863	0.3989	0.0544	0.0545					
12	1.8154	1.0478	0.8013	0.5497	0.6897	0.3836	0.4325	0.4005	0.4631	0.4005	0.5835	0.4003								
16	1.3499	0.8165	0.5614	0.5244	0.3908	0.3640	0.4048	0.4003	0.4002	0.4309	0.4023	0.5229								
24	1.1519	0.5897	0.7084	0.3889	0.4380	0.4059	0.4640	0.4003	0.5828	0.4002										
32	0.9231	0.3594	0.4016	0.3709	0.4092	0.4073	0.4625	0.5282	0.3896	0.5260										
48	0.6534	0.4148	0.4488	0.4143	0.4682	0.4044	0.5892	0.4004												
64	0.3621	0.3423	0.3553	0.3109	0.4052	0.2910	0.3999	0.5221												
96	0.4589	0.4896	0.4867	0.4140	0.5958	0.4035														
128	0.0536	0.0543	0.0540	0.0547	0.0545	0.0543														
192	0.0580	0.0549	0.0533	0.0552																
256	0.0545	0.0549	0.0547	0.0544																
384	0.0542	0.0549	0.0538	0.0547																
512	0.0540	0.0540																		
768	0.0542																			
1024	0.0539																			

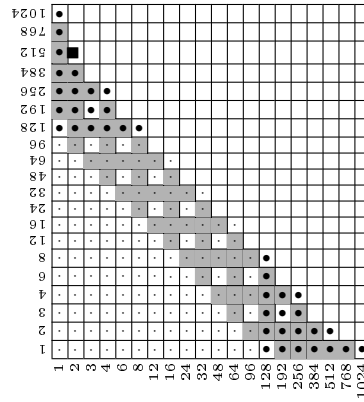


Table103. MB11 Fermi: Increased L1, size 96×96, milliseconds.

1	3.7523	36.8957	24.6686	18.4690	12.4833	9.3491	6.2421	4.7887	3.1315	2.4023	1.8530	1.4296	1.1172	0.8885	0.768	1.024
2	37.5651	18.7982	12.6794	9.5170	6.3831	4.3822	3.1837	2.4394	1.8641	1.4238	1.1216	0.8763	0.6745	0.5385	0.4374	0.3383
3	25.5508	12.8968	8.6892	6.0661	4.010	3.2411	2.4813	1.8625	1.9167	1.5569	1.2498	1.0708	0.901	0.7583	0.6367	0.5383
4	19.4822	9.8483	6.5816	5.0542	3.2974	2.5386	1.8871	1.4359	1.5184	1.5600	1.5746	1.5709	1.5031	1.3778	1.2583	1.1570
6	13.5841	6.8022	4.7069	3.4101	2.5886	1.9144	1.8410	1.5656	1.9443	1.5789	1.4938	1.5663	1.7620	1.5627	1.4570	1.3572
8	10.5297	5.4020	3.5280	2.7120	1.9709	1.4756	1.4522	1.5678	1.6664	1.5727	1.5704	1.5729	1.5695	1.0533		
12	7.4888	3.7504	2.7733	2.0287	1.8008	1.4429	1.5931	1.5637	1.4967	1.5694	1.7636	1.5737				
16	6.1084	3.0542	2.1166	1.5368	1.5614	1.4908	1.3571	1.6325	1.5693	1.5782						
24	4.4386	2.2850	1.9102	1.3928	1.5397	1.3905	1.3493	1.5631	1.5636	1.5778						
32	3.7657	1.7589	1.7192	1.3376	1.3701	1.3803	1.3755	1.5636	1.5648							
48	2.7518	1.2753	1.5628	1.3376	1.3701	1.3803	1.4854	1.5648								
64	2.1259	1.5740	1.3788	1.3846	1.4080	1.3234	1.5728	1.5721								
96	2.3083	1.4780	1.4404	1.4284	1.5189	1.5802										
128	1.2580	1.0668	1.0970	1.1165	1.2088	1.0689										
256	0.0383	0.0382	0.0380													
384	(0.0372)	(0.0368)														
512	(0.0372)	(0.0374)														
768	(0.0378)															
1024	(0.0352)*															

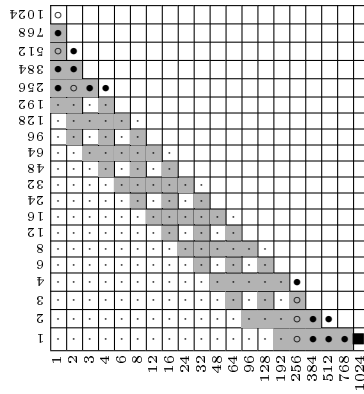


Table104. MB11 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	212.655	106.333	70.884	53.152	35.426	26.589	17.771	13.350	8.945	6.735	5.712	(4.283)	(4.283)	(4.272)	(4.272)	(4.268)	(4.268)	(4.264)	(4.264)	(4.264)	(4.264)
2	131.821	65.913	43.940	32.956	21.971	16.478	10.987	8.240	5.926	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
3	102.548	51.273	34.182	25.637	17.092	12.819	9.073	5.962	5.828	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
4	87.936	43.967	29.311	21.984	14.656	10.992	6.814	4.499	(4.283)	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
6	73.351	36.670	24.449	18.337	12.704	7.713	5.797	(4.283)	(4.283)	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
8	66.052	33.027	22.020	16.510	9.548	5.792	4.419	4.681	(4.283)	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
12	58.776	29.386	18.846	11.300	6.740	4.575	4.681	(4.283)	(4.283)	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
16	55.471	27.737	14.100	8.611	5.361	4.575	4.681	(4.283)	(4.283)	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
24	51.836	19.202	10.906	6.641	5.364	4.575	(4.283)	(4.283)	(4.283)	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
32	49.015	18.045	9.783	6.457	5.318	4.575	(4.283)	(4.283)	(4.283)	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
48	39.092	18.045	11.907	8.306	5.276	4.518	(4.283)	(4.283)	(4.283)	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
64	59.838	23.150	14.425	8.335	5.308	4.519	(4.283)	(4.283)	(4.283)	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
96	78.868	27.988	13.788	7.903	5.615	4.531	(4.283)	(4.283)	(4.283)	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
128	97.477	28.420	14.476	7.715	5.593	4.643	(4.283)	(4.283)	(4.283)	(4.283)	(4.283)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)	(4.277)
192	124.581	28.836	12.932	8.060																	
256	133.354	29.655																			
384	131.068	29.979																			
512	134.965	24.291																			
768	160.837																				
1024	141.172																				

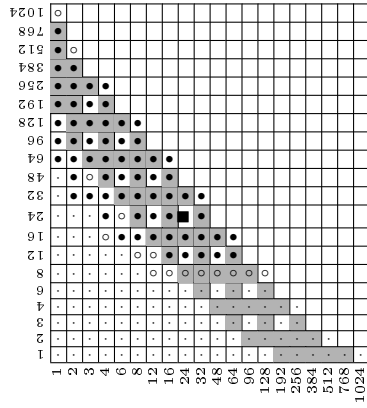


Table105. MB11 Fermi: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	19.0945	9.6600	6.4528	4.9588	3.2398	2.4956	1.7491	1.2603	1.0062	0.7623	0.5471	0.3080	0.3890	0.0533	0.0533	0.0533	0.0544	0.0533	0.0533	0.0529	0.0529
2	9.7510	5.0080	3.2870	2.5179	1.7656	1.2722	1.0123	0.7698	0.5505	0.5212	0.3830	0.3232	0.4094	0.0542	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
3	6.5730	3.3010	2.2889	1.7804	1.2741	1.0245	0.7915	0.5504	0.6908	0.3877	0.4380	0.3438	0.4658	0.0530	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
4	5.0922	2.5628	1.8018	1.2949	1.0332	0.7815	0.5548	0.5273	0.3985	0.3735	0.4088	0.3088	0.4080	0.0538	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
6	3.3861	1.8382	1.3121	1.0538	0.8113	0.5604	0.7079	0.3888	0.4351	0.4079	0.4674	0.4065	0.5862	0.0546	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
8	2.6592	1.3386	1.0673	0.8105	0.5684	0.5359	0.3909	0.3782	0.4073	0.4075	0.4064	0.2982	0.4080	0.0528	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
12	1.9292	1.1100	0.8430	0.5783	0.3793	0.3954	0.4419	0.4110	0.4717	0.4075	0.5891	0.4063	0.5293	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
16	1.4348	0.8669	0.5973	0.5579	0.4103	0.3751	0.4165	0.4097	0.4112	0.5283	0.4103	0.5293	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
24	1.2226	0.6338	0.8036	0.4256	0.4608	0.4280	0.4782	0.4119	0.5851	0.4075	0.4106	0.5276	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
32	0.9852	0.6312	0.4453	0.4061	0.4369	0.4212	0.4180	0.4306	0.4226	0.6026	0.4099	0.4106	0.5276	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
48	0.7367	0.4820	0.4563	0.4530	0.4396	0.4226	0.6026	0.4099	0.3056	0.4157	0.5297	0.4106	0.5276	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533	0.0533
64	0.4472	0.3960	0.3982	0.3299	0.4386	0.3056	0.4157	0.5297	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224
96	0.5975	0.5182	0.5191	0.4528	0.6356	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224	0.4224
128	0.0527	0.0537	0.0537	0.0531	0.0531	0.0516*	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537
192	0.0543	0.0535	0.0540	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532
256	0.0527	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530
384	0.0555	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534
512	0.0540	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534
768	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537	0.0537
1024	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530

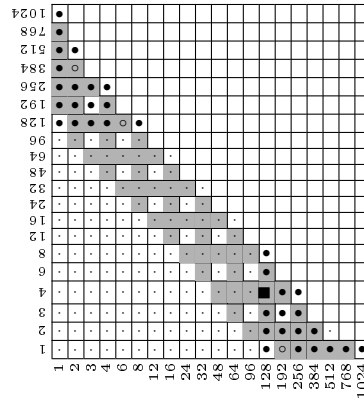


Table106. MB11 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	83.0079	41.5886	27.7894	20.8297	14.0016	10.5223	7.0250	5.3876	3.5194	2.7063	1.9962	1.5410	1.5484	1.0615	1.5656	(0.03840)	(0.03840)	(0.0362)	(0.0361)	(0.0363)
2	42.2590	21.1581	14.2368	10.6920	7.1410	5.4764	3.5738	2.7506	2.0258	1.5400	1.5917	1.5887	1.4682	1.4981	1.3780	(0.0364)	(0.0360)	(0.0356)		
3	28.6924	14.4716	9.7377	7.2564	5.0048	3.6371	2.6928	2.0247	2.0280	1.6269	1.7409	1.6658	1.3434	1.3745	1.7719	(0.0354)				
4	21.8523	11.0463	7.3755	5.6566	3.6964	2.8423	2.0554	1.5619	1.6505	1.5877	1.4660	1.5729	1.3786	1.3144	1.5675	(0.0359)				
6	15.1752	7.6090	5.2513	3.8160	2.8093	2.0875	2.0332	1.6478	1.9545	1.5715	1.4931	1.3788	1.7799	1.5649						
8	11.7577	6.0292	3.9365	3.0261	2.1500	1.6096	1.6813	1.5963	1.3840	1.5710	1.4931	1.3787	1.5716	1.5694	1.0687					
12	8.3523	4.1847	3.0125	2.2178	2.1123	1.6997	1.9628	1.8848	1.3597	1.5732	1.7837	1.5715								
16	6.7781	3.4034	2.3288	1.7118	1.8230	1.7046	1.4840	1.4407	1.3966	1.5707	1.5655	1.5925								
24	4.9300	2.5354	2.2616	1.9128	1.7493	1.4573	1.4139	1.3971	1.7879	1.5743										
32	4.1747	2.0348	2.1009	1.7589	1.4144	1.3908	1.4428	1.3330	1.5903											
48	3.3743	2.2503	1.8079	1.4858	1.5070	1.4600	1.8724	1.5972												
64	2.8560	1.9511	1.5811	1.4908	1.5141	1.4025														
96	3.2342	1.6216	1.6092	1.5592	1.7049	1.6652														
128	1.8401	1.2322	1.2379	1.2192	1.3208	1.1692														
192	2.8268	1.7111	1.9165	1.7661																
256	(0.0353)	(0.0351)																		
384	(0.0365)	(0.0348)*																		
512	(0.0364)	(0.0349)																		
768	(0.0353)																			
1024	0.0371																			

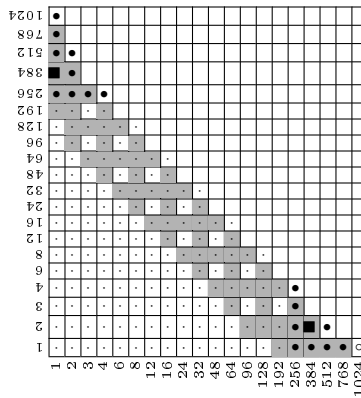


Table107. MB11 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	520.122	260.057	173.380	130.039	86.700	65.025	43.357	32.521	21.685	16.267	10.896	8.175	5.808	4.420	4.275	4.237	4.231	4.228	4.254	4.863
2	281.689	140.849	93.902	70.427	48.957	35.218	23.482	17.613	11.812	8.162	5.999	4.411	3.215	2.420	2.254	2.227	2.243	2.228	2.254	2.863
3	202.680	101.333	67.558	50.669	33.782	25.338	17.023	11.811	7.984	5.502	4.724	3.268	2.219	1.744	1.715	1.720	1.724	1.728	1.754	2.363
4	163.268	81.637	54.427	40.822	27.917	20.413	12.796	8.876	6.013	4.213	3.247	2.240	1.524	1.175	1.155	1.160	1.164	1.168	1.194	1.803
6	124.058	62.048	41.367	31.026	20.894	13.769	9.280	6.011	4.755	3.242	2.231	1.524	1.015	0.766	0.755	0.760	0.764	0.768	0.794	1.403
8	104.658	52.329	34.887	26.187	15.786	10.399	7.089	4.708	3.227	2.222	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
12	85.502	42.754	27.835	17.887	11.306	7.460	5.987	4.227	3.226	2.222	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
16	77.303	38.654	22.002	14.134	10.330	7.164	5.990	4.233	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
24	68.570	33.552	21.058	14.197	10.432	7.018	5.943	4.284	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
32	63.850	29.027	20.138	13.921	10.526	7.045	5.954	4.304	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
48	59.182	27.931	20.176	14.092	10.451	7.045	5.954	4.304	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
64	53.102	27.825	20.010	13.997	10.475	7.072	6.015	4.324	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
96	47.032	27.815	20.861	14.306	10.576	7.132	6.015	4.344	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
128	42.962	27.805	20.861	14.306	10.576	7.132	6.015	4.344	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
192	38.892	27.795	20.861	14.306	10.576	7.132	6.015	4.344	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
256	34.822	27.785	20.861	14.306	10.576	7.132	6.015	4.344	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
384	30.752	27.775	20.861	14.306	10.576	7.132	6.015	4.344	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
512	26.682	27.765	20.861	14.306	10.576	7.132	6.015	4.344	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
768	22.612	27.755	20.861	14.306	10.576	7.132	6.015	4.344	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154
1024	18.542	27.745	20.861	14.306	10.576	7.132	6.015	4.344	3.266	2.224	1.524	1.015	0.766	0.517	0.506	0.511	0.515	0.519	0.545	1.154

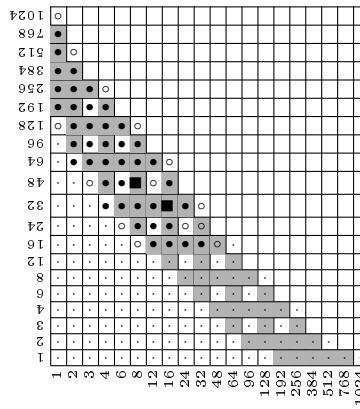


Table108. MB11 Fermi: Without L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.0571	0.0409	0.0351	0.0319	0.0288	0.0268	0.0248	0.0236	0.0231	0.02215	0.0215	0.0209	0.0203	0.0197	0.0191	0.0185	0.0179	0.0173	0.0167	0.0161
2	0.0433	0.0316	0.0290	0.0268	0.0248	0.0236	0.0230	0.0223	0.0217	0.0211	0.0205	0.0199	0.0193	0.0187	0.0181	0.0175	0.0169	0.0163	0.0157	0.0151
3	0.0352	0.0288	0.0261	0.0246	0.0235	0.0228	0.0223	0.0218	0.0213	0.0208	0.0203	0.0198	0.0193	0.0188	0.0183	0.0178	0.0173	0.0168	0.0163	0.0158
4	0.0324	0.0273	0.0244	0.0235	0.0230	0.0225	0.0220	0.0215	0.0210	0.0205	0.0200	0.0195	0.0190	0.0185	0.0180	0.0175	0.0170	0.0165	0.0160	0.0155
6	0.0268	0.0249	0.0244	0.0240	0.0236	0.0232	0.0228	0.0224	0.0220	0.0216	0.0212	0.0208	0.0204	0.0200	0.0196	0.0192	0.0188	0.0184	0.0180	0.0176
8	0.0268	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
12	0.0247	0.0233	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232
16	0.0237	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231
24	0.0236	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228
32	0.0236	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228	0.0228
48	0.0274	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353	0.0353
64	0.0305	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359	0.0359
96	0.0361	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584	0.0584
128	0.0542	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527	0.0527
192	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532	0.0532
256	0.0532	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530	0.0530
384	0.0545	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564	0.0564
512	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539	0.0539
768	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529
1,024	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529	0.0529

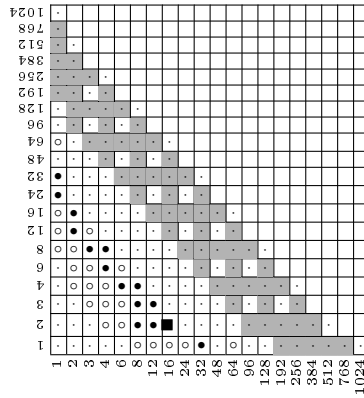


Table109. MB12 Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1771	0.0963	0.0685	0.0540	0.0401	0.0324	0.0250	0.0208	0.0180	(0.0160)	0.0450	0.0441	0.0642	0.0619	0.1224	0.0855	0.0360	0.0383	0.0854	0.0350
2	0.0666	0.0543	0.0401	0.0323	0.0250	0.0209	0.0180	(0.0150)	0.0453	0.0441	0.0643	0.0877	0.1307	0.1241	0.2377	0.0358				
3	0.0688	0.0400	0.0297	0.0250	0.0204	0.0180	0.0174	0.0450	0.0631	0.0654	0.1008	0.1806	0.1762	0.2044	0.4514	0.0754				
4	0.0564	0.0323	0.0250	0.0208	0.0180	(0.0150)	0.0452	0.0441	0.0642	0.0844	0.1226	0.1678	0.2378	0.2425	0.5337	0.0362				
6	0.0399	0.0251	0.0208	0.0180	0.0175	0.0442	0.0631	0.0642	0.1008	0.1226	0.1761	0.2377	0.4515	0.4027						
8	0.0324	0.0208	0.0180	(0.0150)	0.0448	0.0443	0.0642	0.0870	0.1226	0.1678	0.2377	0.5337	0.5338	0.4776						
12	0.0250	0.0180	0.0175	0.0452	0.0640	0.0640	0.1008	0.1226	0.1763	0.2377	0.5337	0.7132								
16	0.0208	(0.0150)	0.0451	0.0638	0.0644	0.0690	0.0877	0.1226	0.1761	0.2378	0.4510	0.5331								
24	0.0170	0.0443	0.0643	0.0643	0.0644	0.1061	0.1228	0.1761	0.2377	0.4510	0.5331									
32	(0.0150)*	0.0442	0.0643	0.0643	0.0644	0.1061	0.1228	0.1761	0.2377	0.4510	0.5331									
48	0.0442	0.0643	0.0643	0.0643	0.1061	0.1228	0.1761	0.2377	0.4510	0.5331										
64	0.0442	0.0643	0.0643	0.0643	0.1061	0.1228	0.1761	0.2377	0.4510	0.5331										
96	0.0644	0.0805	0.1224	0.1228	0.1763	0.2377	0.4509	0.5338	0.7132											
128	0.0622	0.1240	0.1724	0.1676	0.2376	0.2995	0.4027	0.4777												
192	0.1226	0.2577	0.3786	0.3786	0.5335															
256	0.0360	0.0358	0.0358	0.0358																
384	0.0367	0.0364																		
512	0.0365	0.0348																		
768	0.0358																			
1024	0.0359																			

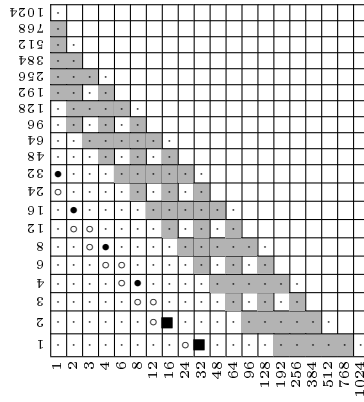


Table110. MB12 Fermi: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	218.97	110.98	57.75	57.72	40.40	30.69	21.88	17.10	13.15	(10.68)	36.70	36.49	54.60	72.52	108.38	144.51	216.31	288.16	431.76	585.23	
2	110.99	57.83	40.33	30.73	21.90	17.10	13.16	(10.68)	36.70	36.49	54.60	72.52	108.38	144.50	216.32	288.15	431.75	585.23			
3	70.89	40.43	27.84	21.92	16.27	13.15	11.56	36.71	54.60	54.60	90.45	108.32	162.44	216.31	324.00	431.75	585.23				
4	50.88	30.67	21.89	17.12	13.13	(10.67)*	36.70	36.49	54.60	72.52	108.32	144.51	216.30	324.00	431.75	585.23					
6	40.40	21.92	16.29	13.16	11.57	36.71	54.70	54.59	90.45	108.33	162.41	216.30	324.00	431.76	585.22						
8	30.76	17.15	13.16	(10.70)	36.71	36.49	54.60	72.52	108.35	144.54	216.32	288.15	431.76	585.22							
12	21.86	13.13	11.56	36.71	54.80	54.60	90.47	108.38	162.43	216.31	324.00	431.76	585.23								
16	17.39	(10.70)	36.71	54.79	54.60	72.52	108.32	144.53	216.30	324.00	431.76	585.23									
24	13.20	36.71	54.79	54.60	90.45	108.32	162.44	216.33	324.00	431.76	585.23										
32	(10.69)	36.49	54.60	72.52	108.38	144.49	216.33	288.13	431.76	585.23											
48	36.71	54.60	90.45	108.33	162.45	216.30	323.99	431.74	585.23												
64	36.49	72.52	108.34	144.51	216.33	288.15	431.76	585.23													
96	54.61	108.38	162.45	216.30	324.00	431.75	585.24														
128	72.52	144.49	216.33	288.15	431.76	585.24															
192	108.35	216.31	324.00	431.75	585.24																
256	144.48	288.16	431.74	585.24																	
384	216.30	431.76	585.23																		
512	288.15	585.23																			
768	431.76	585.23																			
1024	585.24																				

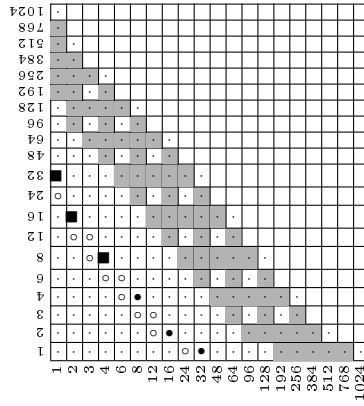


Table 111. MB12 Fermi: Normal L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024	
1	0.0576	0.0400	0.0360	0.0321	0.0284	0.0270	0.0244	(0.0233)	(0.0231)	(0.0232)	0.0314	0.0269	0.0351	0.0545	0.0532	0.0650	0.0640	0.0541			
2	0.0426	0.0315	0.0292	0.0269	0.0246	(0.0233)	(0.0231)	(0.0228)	0.0316	0.0330	0.0356	0.0350	0.0541	0.0547	0.0544	0.0544					
3	0.0360	0.0286	0.0262	0.0252	0.0239	(0.0233)	(0.0231)	0.0309	0.0388	0.0355	0.0475	0.0448	0.0790	0.0542	0.0541	0.0544					
4	0.0326	0.0276	0.0254	(0.0238)	(0.0231)	(0.0231)	(0.0228)	0.0324	0.0356	0.0387	0.0524	0.0500	0.0862	0.0545	0.0541	0.0544					
6	0.0286	0.0245	0.0242	(0.0238)	(0.0235)	0.0312	0.0387	0.0324	0.0359	0.0477	0.0540	0.0784	0.0863	0.1684	0.0545	0.0544					
8	0.0265	0.0248	(0.0235)	(0.0234)	0.0314	0.0326	0.0357	0.0391	0.0391	0.0534	0.0640	0.0863	0.0803	0.1581	0.0548						
12	0.0250	(0.0233)	(0.0231)	0.0317	0.0382	0.0362	0.0470	0.0587	0.0776	0.0863	0.1680	0.1529									
16	(0.0235)	(0.0231)	0.0306	0.0457	0.0355	0.0387	0.0589	0.0875	0.0879	0.1377	0.1534										
24	0.0230	0.0305	0.0383	0.0366	0.0470	0.0635	0.0783	0.0875	0.1678	0.1534											
32	(0.0234)	0.0323	0.0356	0.0395	0.0594	0.0639	0.0866	0.1375	0.1678	0.1534											
48	0.0315	0.0359	0.0481	0.0534	0.0770	0.0866	0.1681	0.1529													
64	0.0275	0.0358	0.0460	0.0503	0.0864	0.0810	0.1528	0.2549													
96	0.0365	0.0585	0.0781	0.0868	0.1678	0.1528															
128	0.0543	0.0537	0.0548	0.0551	0.0542	0.0540															
192	0.0547	0.0542	0.0546	0.0542																	
256	0.0545	0.0539	0.0548	0.0552																	
384	0.0545	0.0540	0.0548																		
512	0.0547	0.0548																			
768	0.0542																				
1,024	0.0553																				

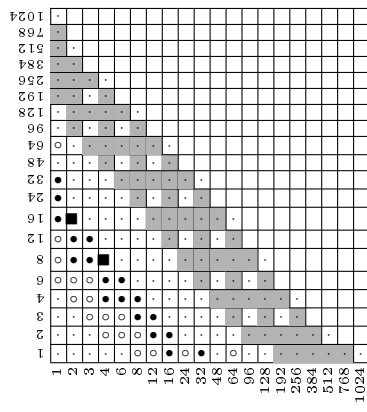


Table112. MB12 Fermi: Increased L1, size 96x96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1768	0.0962	0.0930	0.0546	0.0402	0.0327	0.0253	0.0212	0.0184	(0.0164)	0.0455	0.0447	0.0660	0.0500	0.1230	0.0981	0.0378	0.0384	0.0384	0.0377
2	0.0973	0.0542	0.0403	0.0327	0.0253	0.0212	0.0184	(0.0164)*	0.0455	0.0447	0.0637	0.0852	0.1230	0.1244	0.2383	0.0380	0.0381	0.0377		
3	0.0694	0.0403	0.0302	0.0255	0.0209	0.0183	0.0180	0.0456	0.0636	0.0848	0.1013	0.1239	0.1767	0.2049	0.4519	0.0381				
4	0.0547	0.0327	0.0254	0.0213	0.0185	(0.0164)	0.0458	0.0447	0.0636	0.0849	0.1281	0.1686	0.2382	0.2431	0.5341	0.0384				
6	0.0402	0.0254	0.0209	0.0184	0.0179	0.0459	0.0638	0.0852	0.1014	0.1281	0.1767	0.2381	0.4518	0.4035						
8	0.0327	0.0212	0.0184	(0.0164)	0.0455	0.0449	0.0634	0.0812	0.1281	0.1543	0.2383	0.3002	0.5341	0.4781						
12	0.0254	0.0185	0.0180	0.0458	0.0642	0.0647	0.1064	0.1310	0.1767	0.2382	0.4519	0.5342								
16	0.0213	(0.0164)	0.0457	0.0645	0.0681	0.0880	0.1280	0.1811	0.1767	0.3004	0.5340	0.7137								
24	0.0185	0.0455	0.0636	0.0648	0.1065	0.1311	0.1767	0.1811	0.2381	0.4521										
32	(0.0164)	0.0445	0.0647	0.0845	0.1281	0.1884	0.2382	0.1884	0.3110	0.1767										
48	0.0456	0.0647	0.0809	0.1066	0.1310	0.2382	0.4521	0.2382	0.3004	0.5343										
64	0.0446	0.1239	0.1176	0.1679	0.2381	0.3004	0.5341	0.3004	0.5341											
96	0.0648	0.1239	0.1176	0.2382	0.4520	0.5341		0.5341												
128	0.0627	0.1245	0.1728	0.2997	0.4038	0.4781														
192	0.1231	0.2382	0.4521	0.5342																
256	0.0385	0.0377	0.0387	0.0380																
384	0.0383	0.0384																		
512	0.0381																			
768	0.0376																			
1024	0.0382																			

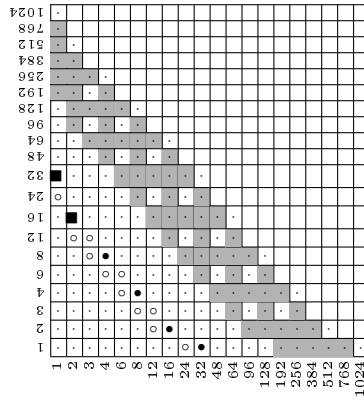


Table 113. MB12 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	218.82	110.85	75.61	57.72	40.27	30.64	21.88	17.08	13.13	(10.67)	36.70	36.49	54.60	72.52	108.38	144.58	216.33	288.16	431.75	585.20	
2	110.85	57.72	40.25	30.68	21.87	17.07	13.12	(10.67)	36.71	36.49	54.61	72.53	108.38	144.47	216.30	288.15	431.75	585.20			
3	72.56	40.37	27.74	21.85	16.25	13.14	11.56	36.71	54.79	54.60	90.44	108.38	162.43	216.34	324.00	431.75					
4	50.88	30.62	21.83	17.06	13.12	(10.65)*	36.70	36.49	54.61	72.51	108.34	144.49	216.81	288.14	431.75	585.20					
6	40.27	21.89	16.24	13.14	11.56	36.70	54.79	54.60	90.46	108.33	162.43	216.33	324.00	431.76							
8	30.71	17.13	13.16	(10.69)	36.70	36.49	54.60	72.52	108.38	144.49	216.38	288.17	431.75	585.23							
12	21.83	13.13	11.56	36.71	54.80	54.60	90.45	108.34	162.47	216.32	324.00	431.74									
16	17.14	(10.68)	36.70	36.49	54.62	72.52	108.34	144.50	216.31	288.15	431.75	585.21									
24	13.18	36.70	54.80	54.61	90.46	108.38	162.43	216.33	324.00	431.75											
32	(10.65)	36.49	54.60	72.53	108.38	144.47	216.30	288.14	431.74	585.21											
48	36.70	54.60	90.45	108.32	162.43	216.31	324.00	431.74													
64	38.49	72.52	108.38	144.49	216.32	288.15	431.74	585.22													
96	54.60	108.38	162.44	216.30	324.00	431.76															
128	72.51	144.52	216.32	288.16	431.76	585.22															
192	108.34	216.31	324.00	431.76																	
256	144.49	288.14	431.75	585.22																	
384	216.30	431.75																			
512	288.15	585.20																			
768	431.76																				
1024	585.20																				

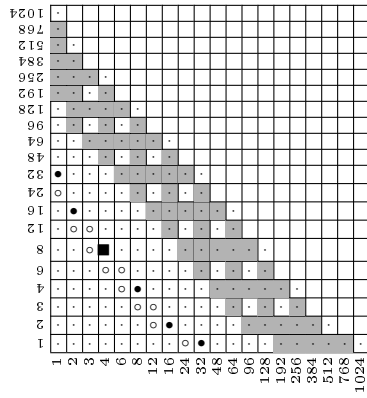


Table114. MB12 Fermi: Increased L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.0571	0.0408	0.0354	0.0316	0.0289	0.0265	0.0248	0.0234	0.0224	0.0216	0.0211	0.0207	0.0204	0.0202	0.0201	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200
2	0.0425	0.0317	0.0286	0.0265	0.0247	0.0234	0.0224	0.0216	0.0211	0.0207	0.0204	0.0202	0.0201	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200	0.0200
3	0.0348	0.0254	0.0259	0.0243	0.0239	0.0235	0.0231	0.0228	0.0226	0.0225	0.0224	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223
4	0.0322	0.0268	0.0245	0.0241	0.0239	0.0235	0.0231	0.0228	0.0226	0.0225	0.0224	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223
6	0.0286	0.0254	0.0244	0.0242	0.0241	0.0239	0.0235	0.0231	0.0228	0.0226	0.0225	0.0224	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223
8	0.0267	0.0234	0.0236	0.0234	0.0233	0.0231	0.0228	0.0226	0.0225	0.0224	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223
12	0.0249	0.0232	0.0233	0.0233	0.0233	0.0231	0.0228	0.0226	0.0225	0.0224	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223
16	0.0238	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225
24	0.0235	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225
32	0.0235	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225
48	0.0232	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225
64	0.0232	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225
96	0.0232	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225
128	0.0232	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225
192	0.0232	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225
256	0.0232	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225
384	0.0232	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225
512	0.0232	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225
768	0.0232	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225
1024	0.0232	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225	0.0225

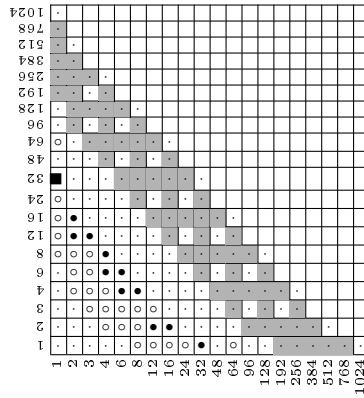


Table115. MB12 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1773	0.0962	0.0687	0.0540	0.0400	0.0323	0.0249	0.0207	0.0179	(0.0159)	0.0457	0.0441	0.0644	0.0621	0.1225	0.0857	0.0358	0.0354	0.0847	0.0349
2	0.0965	0.0536	0.0399	0.0324	0.0250	0.0208	0.0180	(0.0159)	0.0451	0.0442	0.0633	0.0843	0.1307	0.1242	0.2377	0.0357	0.0357			
3	0.0684	0.0400	0.0327	0.0249	0.0204	0.0180	0.0175	0.0450	0.0630	0.0653	0.1007	0.1236	0.1762	0.2044	0.4517	0.0364				
4	0.0401	0.0323	0.0250	0.0208	0.0179	(0.0159)	0.0453	0.0443	0.0637	0.0842	0.1225	0.1537	0.2376	0.2989	0.5338	0.0359				
6	0.0323	0.0208	0.0180	0.0177	0.0451	0.0451	0.0637	0.0640	0.1009	0.1225	0.1762	0.2378	0.4514	0.4030						
8	0.0250	0.0179	0.0175	(0.0159)*	0.0451	0.0441	0.0643	0.0841	0.1305	0.1538	0.2376	0.2908	0.5339	0.4776						
12	0.0208	(0.0159)	0.0450	0.0444	0.0639	0.0653	0.1007	0.1389	0.1762	0.2378	0.4531	0.5336								
16	0.0179	0.0452	0.0638	0.0644	0.0649	0.0876	0.1225	0.1807	0.1762	0.2377	0.4515	0.5338								
24	(0.0151)	0.0443	0.0643	0.0874	0.1226	0.1679	0.2377	0.2377	0.4515	0.5339										
32	0.0452	0.0648	0.1101	0.1306	0.1762	0.2377	0.4515	0.5339		0.7132										
48	0.0644	0.0804	0.1226	0.1679	0.2377	0.2908	0.5334													
96	0.0644	0.1307	0.1762	0.2376	0.4515	0.5334														
128	0.0620	0.1241	0.2207	0.2423	0.4028	0.4775														
192	0.1226	0.2377	0.4514	0.5335																
256	0.0359	0.0351	0.0360	0.0361																
384	0.0367	0.0360																		
512	0.0362	0.0357																		
768	0.0360																			
1024	0.0365																			

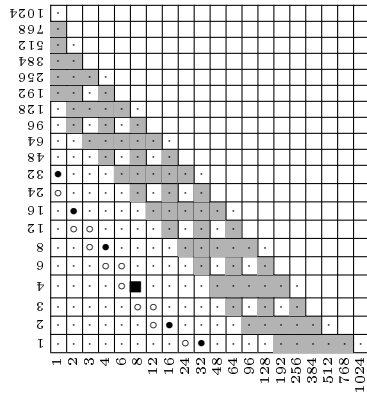


Table 116. MB12 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	218.88	110.85	75.49	57.60	40.26	30.63	21.88	17.11	13.12	10.67*	8.70	7.25	6.10	5.25	4.50	3.84	3.26	2.78	2.40	2.10
2	110.86	57.60	40.25	30.62	21.84	17.08	13.15	(10.68)	8.70	7.25	6.10	5.25	4.50	3.84	3.26	2.78	2.40	2.10	1.80	1.50
3	72.54	40.36	27.79	21.89	16.26	13.13	11.66	9.70	8.10	6.75	5.62	4.75	4.00	3.36	2.88	2.40	2.00	1.70	1.40	1.20
4	52.87	30.97	21.83	17.09	13.12	(10.68)	8.70	7.25	6.10	5.25	4.50	3.84	3.26	2.78	2.40	2.10	1.80	1.50	1.30	1.10
6	40.34	21.89	16.25	13.13	11.56	9.71	8.10	6.75	5.62	4.75	4.00	3.36	2.88	2.40	2.10	1.80	1.50	1.30	1.10	0.90
8	30.77	17.13	13.16	(10.70)	8.70	7.25	6.10	5.25	4.50	3.84	3.26	2.78	2.40	2.10	1.80	1.50	1.30	1.10	0.90	0.70
12	21.86	13.14	11.56	9.70	8.10	6.75	5.62	4.75	4.00	3.36	2.88	2.40	2.10	1.80	1.50	1.30	1.10	0.90	0.70	0.50
16	17.14	(10.70)	8.71	7.25	6.10	5.25	4.50	3.84	3.26	2.78	2.40	2.10	1.80	1.50	1.30	1.10	0.90	0.70	0.50	0.40
24	13.17	8.71	7.25	6.10	5.25	4.50	3.84	3.26	2.78	2.40	2.10	1.80	1.50	1.30	1.10	0.90	0.70	0.50	0.40	0.30
32	(10.68)	8.70	7.25	6.10	5.25	4.50	3.84	3.26	2.78	2.40	2.10	1.80	1.50	1.30	1.10	0.90	0.70	0.50	0.40	0.30
48	8.70	7.25	6.10	5.25	4.50	3.84	3.26	2.78	2.40	2.10	1.80	1.50	1.30	1.10	0.90	0.70	0.50	0.40	0.30	0.20
64	8.70	7.25	6.10	5.25	4.50	3.84	3.26	2.78	2.40	2.10	1.80	1.50	1.30	1.10	0.90	0.70	0.50	0.40	0.30	0.20
96	54.60	108.32	162.41	216.31	324.00	431.74	585.19													
128	72.53	144.53	216.32	288.15	431.74	585.19														
192	108.38	216.34	324.00	431.74	585.19															
256	144.50	288.15	431.75	585.19																
384	216.33	431.75																		
512	288.16	585.18																		
768	431.74																			
1024	585.18																			

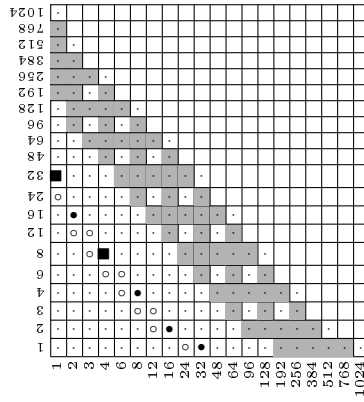


Table117. MB12 Fermi: Without L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0627	0.0457	0.0395	0.0536	0.0337	0.0323	0.0480	0.0481	0.0294	0.0281	0.0286	(0.0269)	(0.0273)	0.1287	0.0724	0.0719	0.0712	0.0725	0.0726	0.0724
2	0.0461	0.0367	0.0337	0.0318	0.0307	0.0296	0.0292	0.0288	0.0442	0.0282	0.0276	0.0277	(0.0273)	0.0731	0.0726	0.1246	0.1265	0.0876		
3	0.0405	0.0346	0.0323	0.0480	0.0295	0.0260	0.0458	0.0481	0.0285	0.0440	(0.0273)	0.0281	(0.0273)	0.1253	0.0731	0.0723				
4	0.0548	0.0321	0.0317	0.0305	0.0282	0.0286	0.0288	0.0283	0.0276	0.0446	0.0280	0.0446	0.0448	0.0740	0.1255	0.1243				
6	0.0349	0.0319	0.0305	0.0294	0.0287	0.0285	0.0286	(0.0273)	0.0458	0.0280	0.0451	(0.0269)*	0.0276	0.0731						
8	0.0340	0.0308	0.0469	0.0292	0.0282	0.0448	0.0280	0.0280	0.0452	0.0418	0.0438	(0.0270)	(0.0270)	0.0722						
12	0.0323	0.0459	0.0291	0.0286	0.0280	(0.0274)	(0.0274)	0.0277	0.0279	0.0454	0.0278	(0.0270)	0.0276							
16	0.0314	0.0309	0.0292	0.0286	(0.0274)	0.0446	(0.0272)	(0.0274)	(0.0274)	0.0454	(0.0270)	0.0277								
24	0.0480	0.0444	0.0301	(0.0264)	0.0466	0.0275	0.0446	(0.0269)	0.0472	(0.0274)	0.0277									
32	0.0306	0.0281	0.0449	(0.0274)	0.0444	0.0452	(0.0273)	(0.0272)	0.0276	0.0277										
48	0.0294	0.0281	0.0446	(0.0264)	0.0276	(0.0267)	(0.0267)	0.0445												
96	0.0292	0.0287	0.0278	0.0275	0.0282	(0.0274)														
128	0.0706	0.0721	0.0724	0.0719	0.0724	0.0728														
192	0.0721	0.0721	0.0730	0.0719																
256	0.1254																			
384	0.0721	0.0727																		
512	0.1261	0.0749																		
768	0.0725																			
1024	0.0733																			

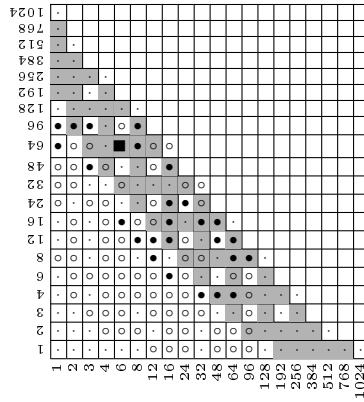


Table118. MB13 Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1633	0.0920	0.0569	0.0556	0.0332	0.0272	0.0331	0.0184	0.0154	0.0140	0.0237	0.0235	0.0111	(0.0105)	0.0205	0.0487	0.1012	0.0476	0.0492	0.1023
2	0.0938	0.0459	0.0340	0.0277	0.0218	0.0293	0.0267	0.0253	0.0127	0.0118	0.0225	0.0106	(0.0105)	0.0101*	0.0201	0.0483	0.0489	0.0489		
3	0.0815	0.0355	0.0268	0.0224	0.0182	0.0278	0.0240	0.0233	0.0118	0.0111	0.0219	(0.0104)	0.0210	(0.0102)	0.0114	0.0483				
4	0.0510	0.0303	0.0339	0.0311	0.0165	0.0251	0.0245	0.0246	0.0118	0.0238	(0.0105)	0.0249	(0.0104)	(0.0102)	0.0219	0.1009				
6	0.0439	0.0363	0.0305	0.0172	0.0149	0.0235	0.0120	0.0222	(0.0105)	0.0211	(0.0105)	(0.0104)	0.0110	(0.0104)						
8	0.0465	0.0339	0.0181	0.0268	0.0133	0.0121	0.0116	0.0109	(0.0105)	0.0238	(0.0105)	(0.0106)	0.0106	(0.0105)						
12	0.0303	0.0228	0.0281	0.0139	0.0124	0.0114	0.0111	(0.0105)	0.0238	(0.0104)	0.0217	(0.0106)								
16	0.0277	0.0208	0.0146	0.0237	0.0118	0.0111	0.0108	(0.0105)	0.0499	(0.0104)	0.0219	0.0116								
24	0.0248	0.0157	0.0134	0.0230	0.0115	0.0108	0.0210	(0.0105)	0.0111	0.0106										
32	0.0236	0.0142	0.0223	0.0121	0.0113	0.0217	(0.0105)	(0.0105)	0.0111	0.0106										
48	0.0199	0.0136	0.0129	0.0115	0.0231	0.0109	0.0114	0.0109	0.0107	0.0116										
64	0.0187	0.0243	0.0129	0.0223	0.0118	0.0108	0.0112	0.0118												
96	0.0183	0.0137	0.0244	0.0121	0.0122	0.0110														
128	0.0155	0.0128	0.0122	0.0114	0.0111	0.0107														
192	0.0184	0.0267	0.0145	0.0240																
256	0.1002	0.1021		0.1027																
384	0.0483	0.0488																		
512	0.0483	0.0488																		
768	0.0488	0.0488																		
1024	0.0487																			

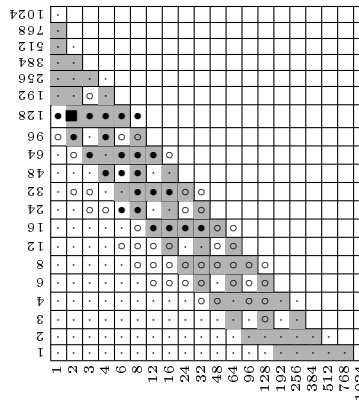


Table 119. MB13 Fermi: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	145.413	72.712	48.478	36.361	24.244	18.185	12.127	9.098	6.070	4.554	3.054	2.282	1.564	1.352	1.329	1.346	1.364	1.353	1.464	2.659	
2	74.920	37.467	25.066	18.675	12.550	9.341	6.332	4.694	3.250	2.282	1.661	1.351	1.328	1.343	1.361	1.354	1.463	2.675			
3	53.107	26.654	17.859	13.283	8.989	6.374	4.641	3.164	2.263	1.570	1.285	1.323	1.353	1.353	1.617	1.463	2.672				
4	42.581	21.219	14.292	10.651	7.183	5.332	3.481	2.381	1.740	1.353	1.363	1.344	1.357	1.351	1.463	2.672					
6	31.959	15.984	10.741	7.972	5.522	3.933	2.527	1.668	1.495	1.325*	1.363	1.360	1.358	1.618	1.463	2.672					
8	26.700	13.351	8.981	6.685	4.144	2.708	1.945	1.392	1.360	1.345	1.363	1.358	1.464	2.676							
12	21.415	10.712	7.064	4.533	2.926	1.905	1.667	1.360	1.401	1.357	1.546	2.671									
16	18.769	9.403	5.313	3.438	2.451	1.622	1.598	1.398	1.393	1.357	1.546	2.671									
24	16.293	6.417	4.129	2.734	2.426	1.838	1.637	1.374	1.783	1.650	2.671										
32	14.882	5.103	3.814	2.600	2.345	1.836	1.607	1.422	1.650	2.671											
48	10.230	4.759	3.654	2.608	2.720	1.618	2.007	1.566	1.650	2.671											
64	9.237	4.450	3.817	2.709	2.452	1.624	1.847	2.863													
96	9.047	4.455	4.015	2.787	3.042	1.842															
128	9.098	5.190	4.520	2.861	2.799	3.215															
192	10.962	6.898	5.672	3.996																	
256	12.902	8.043																			
384	16.680	10.660																			
512	22.044	11.288																			
768	28.624																				
1024	31.212																				

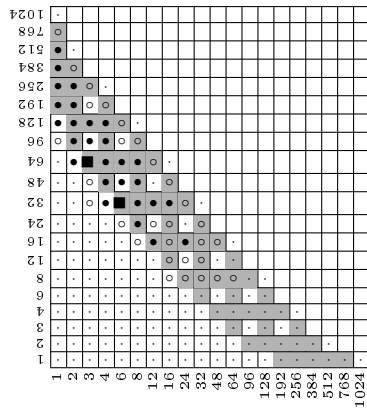


Table 120. MB13 Fermi: Normal L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0626	0.0468	0.0408	0.0357	0.0345	0.0314	0.0304	0.0296	0.0286	0.0282	0.0280	0.0257	0.0266	0.0739	0.0731	0.0731	0.0728	0.0720	0.0728	0.0731
2	0.0456	0.0370	0.0353	0.0326	0.0314	0.0300	0.0286	0.0285	0.0285	0.0278	0.0280	0.0271	0.0270	0.0726	0.0733	0.0743				
3	0.0404	0.0349	0.0326	0.0307	0.0405	0.0293	0.0284	0.0282	0.0279	0.0285	0.0271	0.0426	0.0277	0.0724	0.0733	0.0729				
4	0.0384	0.0332	0.0312	0.0300	0.0286	0.0283	0.0291	0.0278	0.0276	0.0285	0.0273	0.0270	0.0273	0.0892	0.0737	0.0897				
6	0.0353	0.0310	0.0300	0.0296	0.0286	0.0282	0.0284	0.0276	0.0276	0.0275	0.0267	0.0275	0.0270	0.0722						
8	0.0337	0.0311	0.0306	0.0295	0.0292	0.0288	0.0277	0.0276	0.0274	0.0273	0.0271	0.0278	0.0271	0.0727						
12	0.0321	0.0309	0.0287	0.0282	0.0283	0.0283	0.0270	0.0269	0.0272	0.0272	0.0272	0.0284	0.0273							
16	0.0316	0.0282	0.0281	0.0281	0.0278	0.0279	0.0271	0.0270	0.0272	0.0272	0.0272	0.0286	0.0269							
24	0.0308	0.0293	0.0278	0.0274	0.0278	0.0272	0.0271	0.0270	0.0270	0.0270	0.0270									
32	0.0301	0.0286	0.0285	0.0285	0.0289	0.0285	0.0283	0.0283	0.0283	0.0271										
48	0.0291	0.0290	0.0292	0.0270	0.0284	0.0274	0.0270	0.0270	0.0270	0.0268	0.0271									
64	0.0292	0.0282	0.0275	0.0277	0.0276	0.0276	0.0270													
96	0.0277	0.0277	0.0277	0.0277	0.0277	0.0277	0.0277													
128	0.0739	0.0741	0.0736	0.0733	0.0736	0.0737	0.0746													
192	0.0712	0.0718	0.0736	0.0733																
256	0.0734	0.0722	0.0728	0.0736																
384	0.0726	0.0735																		
512	0.0731																			
768																				
1024	0.0742																			

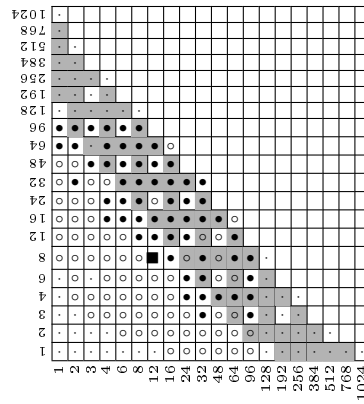


Table121. MB13 Fermi: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.1521	0.0812	0.0575	0.0457	0.0338	0.0280	0.0220	0.0190	0.0160	0.0146	0.0133	0.0124	0.0116	(0.0110)	(0.0113)	0.0515	0.0510	0.0521	0.0523	0.0530
2	0.0828	0.0466	0.0345	0.0284	0.0223	0.0192	0.0162	0.0147	0.0133	0.0123	0.0118	0.0116	(0.0112)	(0.0109)*	(0.0111)	0.0507	0.0522	0.0511		
3	0.0518	0.0359	0.0275	0.0230	0.0189	0.0166	0.0148	0.0133	0.0124	0.0118	(0.0113)	(0.0113)	(0.0111)	(0.0110)	(0.0117)	0.0512				
4	0.0412	0.0307	0.0240	0.0205	0.0172	0.0153	0.0135	0.0125	0.0119	0.0115	(0.0112)	(0.0111)	(0.0112)	(0.0110)	(0.0114)	0.0500				
6	0.0361	0.0287	0.0206	0.0181	0.0155	0.0137	0.0126	0.0118	0.0115	(0.0113)	(0.0111)	(0.0111)	0.0117	(0.0112)						
8	0.0369	0.0264	0.0189	0.0167	0.0143	0.0128	0.0124	0.0115	(0.0113)	(0.0112)	(0.0113)	(0.0113)	(0.0114)	(0.0112)						
12	0.0285	0.0191	0.0152	0.0134	0.0125	0.0118	0.0115	0.0115	(0.0113)	(0.0112)	(0.0114)	0.0119	(0.0114)	0.0122						
16	0.0254	0.0163	0.0142	0.0127	0.0122	0.0116	0.0115	0.0115	(0.0113)	(0.0114)	(0.0112)	0.0117								
24	0.0242	0.0150	0.0137	0.0127	0.0124	0.0116	0.0115	0.0115	(0.0113)	(0.0114)	(0.0112)	0.0114								
32	0.0205	0.0143	0.0136	0.0121	0.0123	0.0115	0.0115	0.0115	(0.0113)	(0.0114)	(0.0112)	0.0114								
48	0.0194	0.0149	0.0148	0.0126	0.0125	0.0115	0.0115	0.0115	(0.0113)	(0.0114)	(0.0112)	0.0117								
64	0.0187	0.0148	0.0146	0.0126	0.0126	0.0115	0.0115	0.0117	(0.0114)	(0.0113)	(0.0112)	0.0117								
96	0.0162	0.0135	0.0125	0.0121	0.0118	0.0115	0.0115	0.0117	(0.0114)	(0.0113)	(0.0112)	0.0117								
128	0.0207	0.0155	0.0151	0.0130	0.0118	0.0115	0.0115	0.0117	(0.0114)	(0.0113)	(0.0112)	0.0117								
192	0.0513	0.0508	0.0521	0.0512																
256	0.0505	0.0530																		
384	0.0510	0.0670																		
512	0.0508																			
768	0.0508																			
1,024	0.0509																			

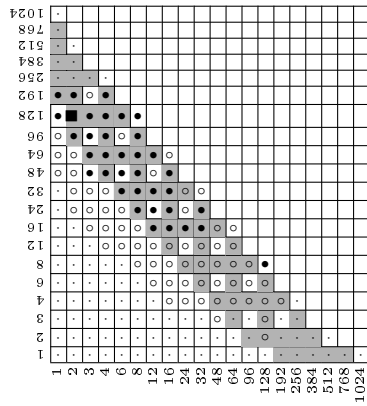


Table122. MB13 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	145.414	72.712	48.479	36.361	24.245	18.186	12.128	9.098	6.071	4.555	3.052	2.283	1.568	1.352	1.329	1.343	1.366	1.380	1.405	1.424	
2	74.563	37.282	25.022	18.713	12.532	9.361	6.322	4.686	3.255	2.283	1.650	1.283	1.350	1.329	1.344	1.350	1.352	1.352	1.352	1.352	1.352
3	53.047	26.525	17.828	13.312	8.976	6.361	4.620	3.150	2.268	1.669	1.485	1.327	1.350	1.344	1.350	1.350	1.350	1.350	1.350	1.350	1.350
4	42.375	21.189	14.222	10.684	7.173	5.323	3.468	2.377	1.736	1.352	1.369	1.344	1.350	1.344	1.350	1.350	1.350	1.350	1.350	1.350	1.350
6	31.924	15.914	10.725	7.980	5.530	3.888	2.520	1.661	1.495	1.327	1.369	1.344	1.350	1.344	1.350	1.350	1.350	1.350	1.350	1.350	1.350
8	26.606	13.343	8.970	6.688	4.150	2.706	1.938	1.301	1.414	1.360	1.369	1.344	1.350	1.344	1.350	1.350	1.350	1.350	1.350	1.350	1.350
12	21.439	10.726	7.042	4.517	2.935	1.900	1.663	1.360	1.414	1.360	1.369	1.344	1.350	1.344	1.350	1.350	1.350	1.350	1.350	1.350	1.350
16	18.821	9.411	5.310	3.416	2.435	1.620	1.595	1.380	1.411	1.361	1.369	1.344	1.350	1.344	1.350	1.350	1.350	1.350	1.350	1.350	1.350
24	16.170	6.411	4.134	2.731	2.434	1.845	1.657	1.380	1.411	1.361	1.369	1.344	1.350	1.344	1.350	1.350	1.350	1.350	1.350	1.350	1.350
32	14.850	5.096	3.817	2.698	2.949	1.812	1.597	1.422	1.649	1.781	1.465	1.649	1.781	1.465	1.649	1.781	1.465	1.649	1.781	1.465	1.649
48	10.235	4.762	3.652	2.692	2.727	1.824	2.006	1.567	1.649	1.781	1.465	1.649	1.781	1.465	1.649	1.781	1.465	1.649	1.781	1.465	1.649
64	9.235	4.453	4.018	2.814	3.037	1.839	1.846	1.579	1.649	1.781	1.465	1.649	1.781	1.465	1.649	1.781	1.465	1.649	1.781	1.465	1.649
96	9.103	5.172	4.520	2.870	2.796	3.221															
128	10.985	6.930	5.638	3.974																	
192	12.878	7.966	4.563																		
256	16.713	10.681																			
384	22.082	11.265																			
512	28.696																				
768	31.219																				
1024																					

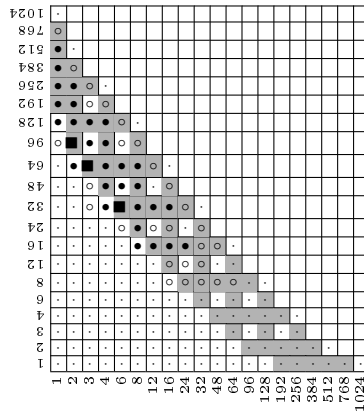


Table123. MB13 Fermi: Increased L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024	
1	0.0625	0.0463	0.0562	0.0365	0.0350	0.0324	0.0314	0.0299	0.0286	0.0291	0.0279	(0.0268)	0.0274	0.0731	0.0738	0.0728	0.0727	0.0725	0.0724	0.0719	
2	0.0457	0.0368	0.0328	0.0319	0.0305	0.0299	0.0287	0.0285	0.0281	0.0276	(0.0269)	0.0271	0.0270	0.0732	0.0713	0.0729	0.0721	0.0726			
3	0.0398	0.0335	0.0434	0.0308	0.0294	0.0286	0.0286	0.0276	0.0284	0.0306	(0.0266)	0.0271	(0.0269)	0.0732	0.0719	0.0729	0.0721				
4	0.0380	0.0337	0.0313	0.0304	0.0289	0.0288	0.0281	0.0276	0.0273	0.0270	(0.0266)	(0.0267)	(0.0265)	0.0739	0.0722	0.0727					
6	0.0349	0.0321	0.0312	0.0292	0.0282	0.0286	0.0276	(0.0268)	0.0275	(0.0266)	0.0270	0.0270	0.0270	0.0718							
8	0.0341	0.0307	0.0292	0.0293	0.0284	0.0283	(0.0265)	0.0276	0.0274	(0.0267)	0.0270	0.0270	(0.0266)	0.0703							
12	0.0327	0.0298	0.0292	0.0283	0.0274	0.0271	0.0276	0.0278	0.0271	0.0275	0.0270	0.0272	(0.0266)								
16	0.0318	0.0297	0.0279	0.0281	0.0278	0.0273	(0.0267)	0.0271	(0.0268)	0.0271	0.0273	0.0271	0.0272								
24	0.0311	0.0283	0.0258	0.0277	0.0274	(0.0267)	0.0272	0.0273	(0.0268)	0.0271	0.0273	0.0271	0.0272								
32	0.0304	0.0282	0.0258	0.0270	0.0273	0.0270	0.0272	0.0273	0.0275	0.0275	0.0271	0.0271	0.0271								
48	0.0300	0.0286	0.0258	(0.0269)	0.0275	(0.0268)	0.0273	0.0274	0.0274	0.0274	0.0271	0.0271	0.0271								
64	0.0284	0.0277	0.0279	0.0274	0.0276	(0.0266)	0.0272	0.0273													
96	0.0457	0.0280	(0.0261)	0.0274	0.0275	(0.0266)	0.0272														
128	0.0707	0.0725	0.0733	0.0721	0.0726	0.0718															
192	0.0719	0.0718	0.0716	0.0714																	
256	0.0734	0.0736	0.0740	0.0725																	
384	0.0711	0.0735																			
512	0.0731	0.0733																			
768	0.0725																				
1,024	0.0740																				

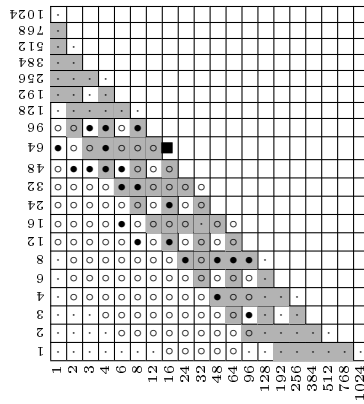


Table 124. MB13 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1514	0.0805	0.0568	0.0450	0.0324	0.0272	0.0318	0.0184	0.0154	0.0139	0.0125	0.0118	0.0111	(0.0103)	(0.0105)	0.0489	0.0505	0.0479	0.0478	0.0484
2	0.0824	0.0458	0.0320	0.0277	0.0218	0.0187	0.0157	0.0141	0.0127	0.0117	0.0111	0.0106	(0.0104)	(0.0101)*	(0.0104)	0.0501	0.0472	0.0481		
3	0.0513	0.0354	0.0269	0.0225	0.0183	0.0160	0.0140	0.0126	0.0117	0.0111	0.0106	(0.0104)	(0.0104)	(0.0103)	0.0110	0.0489				
4	0.0410	0.0302	0.0234	0.0197	0.0164	0.0148	0.0227	0.0118	0.0112	0.0107	(0.0105)	(0.0104)	(0.0104)	(0.0102)	0.0106	0.0485				
6	0.0405	0.0250	0.0200	0.0172	0.0149	0.0130	0.0120	0.0225	0.0107	(0.0105)	(0.0104)	(0.0104)	0.0110	(0.0104)						
8	0.0355	0.0225	0.0181	0.0159	0.0138	0.0121	0.0114	0.0109	0.0207	(0.0103)	(0.0104)	0.0210	0.0106	(0.0105)						
12	0.0303	0.0197	0.0162	0.0139	0.0123	0.0224	0.0110	0.0207	(0.0103)	(0.0104)	0.0111	0.0106	0.0115							
16	0.0278	0.0184	0.0147	0.0128	0.0118	0.0111	0.0109	(0.0104)	0.0106	0.0107	0.0107	0.0115								
24	0.0247	0.0157	0.0134	0.0119	0.0113	0.0110	0.0108	0.0215	0.0111	0.0106										
32	0.0236	0.0143	0.0130	0.0120	0.0118	0.0107	0.0409	(0.0105)	0.0117	0.0115										
48	0.0195	0.0137	0.0131	0.0116	0.0117	0.0108	0.0114	0.0107	0.0107	0.0107										
96	0.0183	0.0141	0.0130	0.0121	0.0113	0.0109	0.0112	0.0117												
128	0.0152	0.0127	0.0124	0.0114	0.0111	0.0107														
192	0.0191	0.0146	0.0144	0.0123																
256	0.0493	0.0476	0.0492	0.0490																
384	0.0508	0.0494																		
512	0.0487	0.0499																		
768	0.0486																			
1024	0.0490																			

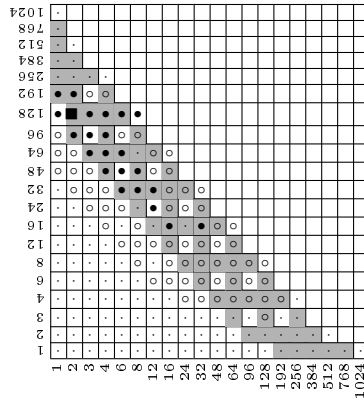


Table 125. MB13 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	145.413	72.712	48.478	36.361	24.244	18.185	12.127	9.098	6.069	4.554	3.052	2.282	1.570	(1.353)	(1.328)	(1.345)	(1.353)	(1.357)	1.468	2.646
2	75.074	37.288	24.946	18.653	12.580	9.331	6.325	4.669	3.259	2.282	1.661	(1.352)	(1.326)	(1.344)	(1.370)	(1.370)	(1.358)	1.462	2.673	
3	53.058	26.632	17.838	13.323	8.979	6.363	4.636	3.150	2.263	1.564	1.486	(1.347)	(1.370)	(1.356)	1.622	1.468	2.679			
4	42.519	21.275	14.228	10.613	7.199	5.308	3.471	2.369	1.736	(1.352)	(1.367)	(1.344)	(1.359)	(1.355)	1.468	2.679				
6	31.936	15.925	10.696	7.990	5.532	3.802	2.531	1.658	1.494	(1.327)	(1.363)	(1.349)	(1.357)	1.618	1.462					
8	26.610	13.349	8.973	6.678	4.132	2.714	1.944	(1.388)	(1.367)	(1.343)	(1.361)	(1.357)	1.465	2.684						
12	21.451	10.703	7.045	4.519	2.933	1.904	1.660	(1.369)	1.413	(1.349)	1.725	1.463								
16	18.785	9.414	5.310	3.415	2.439	1.620	1.595	1.306	1.402	(1.358)	1.544	2.660								
24	16.171	6.400	4.133	2.735	2.430	1.851	1.623	(1.369)	1.779	1.463										
32	14.880	5.102	3.817	2.606	2.346	1.837	1.618	1.422	1.650	2.679										
48	10.236	4.757	3.650	2.608	2.716	1.825	2.002	1.567												
64	9.237	4.582	3.819	2.808	2.546	1.927	1.845	2.861												
96	9.044	4.454	4.025	2.802	3.028	1.906														
128	9.103	5.177	4.501	2.872	2.791	3.198														
192	10.984	6.907	5.699	4.021																
256	12.906	8.015																		
384	16.573	10.632																		
512	21.897	11.025																		
768	28.546																			
1024	31.519																			

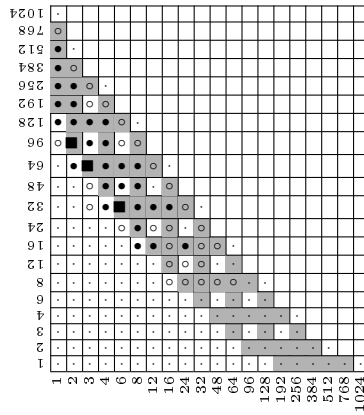


Table126. MB13 Fermi: Without L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0788	0.0563	0.0483	0.0459	0.0423	0.0400	0.0388	0.0370	0.0353	0.0411	0.0352	(0.0319)	(0.0325)	0.0307	0.0382	0.0354	0.0393	0.0372	0.0352	
2	0.0559	0.0483	0.0424	0.0386	0.0357	0.0373	0.0362	0.0417	0.0356	0.0353	0.0338	0.0340	0.0335	0.0388	0.0385	0.0389	0.0382	0.0382	0.0382	
3	0.0495	0.0441	0.0401	0.0382	0.0361	0.0371	0.0359	0.0347	0.0346	0.0338	0.0338	0.0338	0.0335	0.0306	0.0373	0.0390	0.0382	0.0382	0.0382	
4	0.0456	0.0410	0.0376	0.0378	0.0366	0.0357	0.0350	0.0336	0.0363	0.0337	0.0338	0.0346	0.0344	0.0382	0.0391	0.0391	0.0382	0.0382	0.0382	
6	0.0430	0.0383	0.0372	0.0365	0.0361	0.0359	0.0352	0.0351	0.0341	0.0341	0.0348	0.0344	0.0344	0.0373	0.0373	0.0373	0.0373	0.0373	0.0373	
8	0.0404	0.0373	0.0358	0.0363	0.0370	0.0351	0.0350	0.0344	0.0338	(0.0325)	0.0351	0.0351	0.0344	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	
12	0.0388	0.0363	0.0346	0.0358	0.0366	0.0337	0.0336	0.0338	0.0338	0.0346	0.0338	0.0346	0.0344	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351	
16	0.0380	0.0374	0.0369	0.0355	0.0341	0.0342	0.0338	0.0332	0.0334	0.0334	0.0334	0.0334	0.0334	0.0334	0.0334	0.0334	0.0334	0.0334	0.0334	
24	0.0370	0.0371	0.0347	0.0339	0.0330	0.0341	0.0340	0.0340	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	0.0338	
32	0.0360	0.0371	(0.0326)	0.0332	0.0332	0.0333	0.0333	0.0334	0.0334	[0.0314]*	0.0334	0.0334	0.0334	0.0334	0.0334	0.0334	0.0334	0.0334	0.0334	
48	0.0352	0.0342	0.0341	0.0330	0.0330	0.0335	0.0335	0.0335	0.0335	0.0335	0.0335	0.0335	0.0335	0.0335	0.0335	0.0335	0.0335	0.0335	0.0335	
64	0.0342	0.0341	0.0345	0.0348	0.0348	0.0343	0.0340	0.0348	0.0348	0.0348	0.0348	0.0348	0.0348	0.0348	0.0348	0.0348	0.0348	0.0348	0.0348	
96	0.0342	0.0341	0.0339	(0.0318)	0.0339	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	0.0332	
128	0.0300	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	0.0309	
192	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	0.0288	
256	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	
384	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	
512	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	
768	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	
1024	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	0.0287	

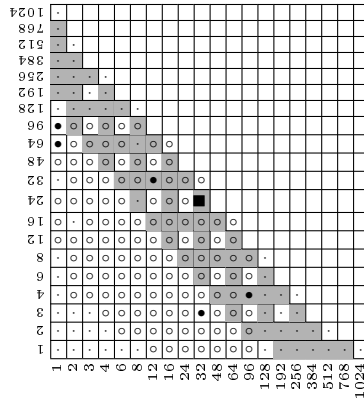


Table127. MB14 Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1847	0.0980	0.0691	0.0546	0.0401	0.0328	0.0256	0.0221	0.0184	0.0166	0.0148	0.0138	0.0130	(0.0120)	(0.0120)	0.0577	0.0602	0.0582	0.0697	0.0631
2	0.0980	0.0546	0.0401	0.0329	0.0257	0.0220	0.0184	0.0166	0.0148	0.0139	0.0128	0.0125	(0.0119)	(0.0118)	(0.0118)	0.0584	0.0592	0.0601		
3	0.0691	0.0401	0.0304	0.0257	0.0208	0.0184	0.0160	0.0148	0.0136	0.0130	0.0123	(0.0120)	(0.0119)	(0.0117)	(0.0117)	0.0574				
4	0.0546	0.0329	0.0256	0.0220	0.0183	0.0166	0.0147	0.0139	0.0129	0.0124	(0.0121)	(0.0120)	(0.0120)	(0.0118)	(0.0119)	0.0596				
6	0.0401	0.0257	0.0208	0.0184	0.0159	0.0148	0.0136	0.0130	(0.0123)	(0.0120)	(0.0119)	(0.0119)	(0.0117)	(0.0116)*						
8	0.0328	0.0219	0.0183	0.0166	0.0148	0.0142	0.0130	0.0125	(0.0121)	(0.0119)	(0.0119)	(0.0117)	(0.0117)	(0.0117)						
12	0.0257	0.0184	0.0160	0.0147	0.0136	0.0130	0.0123	(0.0119)	(0.0119)	(0.0119)	(0.0118)	(0.0118)	(0.0118)	(0.0118)						
16	0.0220	0.0166	0.0148	0.0139	0.0130	0.0124	(0.0119)	(0.0119)	(0.0121)	(0.0119)	(0.0118)	(0.0118)	(0.0118)	(0.0118)						
24	0.0184	0.0138	0.0130	0.0125	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0117)	(0.0117)										
32	0.0166	0.0130	(0.0123)	(0.0123)	(0.0121)	(0.0118)	(0.0119)	(0.0119)	(0.0118)											
48	0.0139	0.0124	(0.0120)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0118)												
64	0.0130	0.0122	(0.0118)	(0.0117)	(0.0117)	(0.0117)	(0.0118)													
96	(0.0120)	(0.0120)	(0.0120)	(0.0118)																
128	(0.0118)	(0.0119)	(0.0117)	(0.0118)																
192	0.0595	0.0579	0.0596	0.0588																
256	0.0681	0.0588																		
384	0.0581	0.0586																		
512	0.0579																			
768																				
1024	0.0592																			

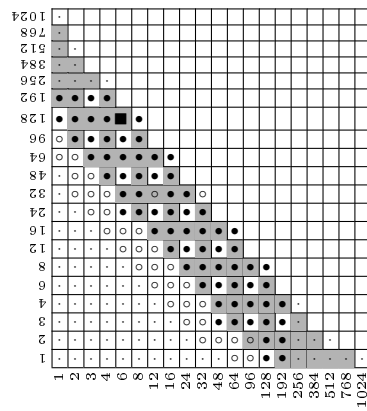


Table128. MB14 Fermi: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024	
1	1599.440	799.726	533.154	399.869	266.583	199.940	133.298	99.976	66.655	49.994	33.333	25.003	16.673	12.507	8.343	6.260	5.568	6.179	6.453	10.866	
2	799.726	399.869	266.583	199.940	133.298	99.976	66.655	49.994	33.333	25.003	16.673	12.507	8.343	6.260	5.568	6.179	6.453	10.866			
3	533.155	266.583	177.726	133.298	88.869	66.655	44.440	33.333	22.223	16.673	11.112	8.343	5.936	5.670	6.260	6.452					
4	399.869	199.940	133.298	99.976	66.655	49.994	33.333	25.003	16.673	12.508	8.342	6.260	5.937	5.670	6.213	6.457					
6	266.583	133.297	88.869	66.655	44.440	33.333	22.223	16.673	11.112	8.342	6.260	5.927	5.670	6.213	6.457						
8	199.940	99.976	66.655	49.994	33.333	25.003	16.673	12.507	8.342	6.260	5.927	5.670	6.213	6.454	10.927						
12	133.298	66.655	44.440	33.333	22.226	16.673	11.119	8.342	5.973	5.670	6.178	6.453									
16	99.976	49.994	33.333	22.226	16.673	11.119	8.342	5.973	5.670	6.178	6.453	10.927									
24	66.655	33.333	22.226	16.673	11.119	8.342	5.920	5.670	6.178	6.453											
32	49.994	25.003	16.673	12.507	8.342	6.260	5.670	6.178	6.453												
48	33.333	16.673	11.119	8.342	5.920	5.670	6.178	6.452													
64	25.003	12.507	8.342	5.916	5.670	6.212	6.452														
96	16.673	8.342	5.916	5.670	6.212	6.449															
128	12.507	6.260	5.670	6.212	6.456																
192	8.342	5.670	6.412	6.456																	
256	6.260	6.214	6.493	10.874																	
384	5.670	6.486																			
512	6.178	10.927																			
768	6.482																				
1024	10.925																				

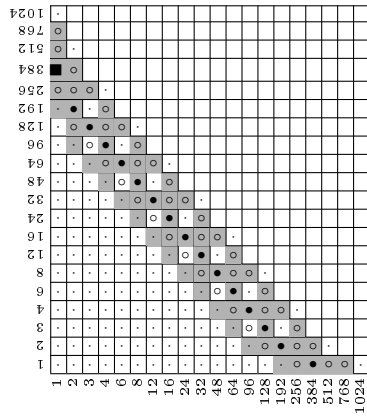


Table 129. MB14 Fermi: Normal L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0778	0.0753	0.0489	0.0456	0.0416	0.0414	0.0382	0.0371	0.0373	0.0359	0.0356	0.0363	0.0338	0.0382	0.0868	0.0882	0.1077	0.0887	0.0898	0.1311
2	0.0563	0.0458	0.0420	0.0410	0.0382	0.0382	0.0365	0.0367	0.0366	0.0524	0.0345	0.0344	0.0335	0.0884	0.0898	0.0908	0.0884	0.0890		
3	0.0503	0.0425	0.0394	0.0389	0.0376	0.0371	0.0360	0.0356	0.0369	0.0539	0.0340	0.0334	0.0341	0.0894	0.0894	0.0894	0.0884	0.0890		
4	0.0466	0.0409	0.0397	0.0379	0.0366	0.0380	0.0361	0.0357	0.0349	0.0341	0.0349	0.0341	0.0346	0.0896	0.0897	0.0896	0.0884	0.0890		
6	0.0420	0.0381	0.0366	0.0358	0.0355	0.0362	0.0354	0.0350	0.0344	0.0341	0.0346	0.0345	0.0340	0.0895	0.0897	0.0895	0.0884	0.0890		
8	0.0403	0.0375	0.0372	0.0369	0.0359	0.0362	0.0354	0.0350	0.0344	0.0341	0.0346	0.0345	0.0340	0.0895	0.0897	0.0895	0.0884	0.0890		
12	0.0403	0.0378	0.0360	0.0357	0.0347	0.0344	0.0345	0.0342	0.0344	0.0341	0.0346	0.0345	0.0340	0.0895	0.0897	0.0895	0.0884	0.0890		
16	0.0371	0.0360	0.0357	0.0347	0.0344	0.0344	0.0345	0.0342	0.0344	0.0341	0.0346	0.0345	0.0340	0.0895	0.0897	0.0895	0.0884	0.0890		
24	0.0373	0.0364	0.0357	0.0347	0.0344	0.0344	0.0345	0.0342	0.0344	0.0341	0.0346	0.0345	0.0340	0.0895	0.0897	0.0895	0.0884	0.0890		
32	0.0366	0.0347	0.0337	0.0337	0.0339	0.0344	0.0336	0.0335	0.0335	0.0337	0.0337	0.0335	0.0335	0.0895	0.0897	0.0895	0.0884	0.0890		
48	0.0341	0.0337	0.0337	0.0337	0.0339	0.0344	0.0336	0.0335	0.0335	0.0337	0.0337	0.0335	0.0335	0.0895	0.0897	0.0895	0.0884	0.0890		
64	0.0346	0.0337	0.0340	0.0340	0.0343	0.0343	0.0343	0.0343	0.0343	0.0343	0.0343	0.0343	0.0343	0.0895	0.0897	0.0895	0.0884	0.0890		
96	0.0346	0.0337	0.0340	0.0340	0.0343	0.0343	0.0343	0.0343	0.0343	0.0343	0.0343	0.0343	0.0343	0.0895	0.0897	0.0895	0.0884	0.0890		
128	0.0897	0.0897	0.0889	0.0889	0.0885	0.0756	0.0881													
192	0.0897	0.0897	0.0889	0.0889	0.0885	0.0881														
256	0.0891	0.0901	0.0888	0.0895																
384	0.0901	0.0901																		
512	0.0885	0.0892																		
768	0.0875																			
1024	0.0891																			

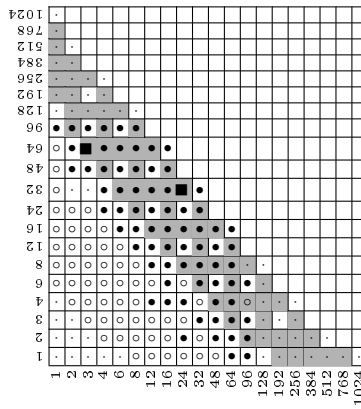


Table130. MB14 Fermi: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1856	0.0987	0.0698	0.0554	0.0410	0.0335	0.0265	0.0228	0.0191	0.0174	0.0155	0.0147	0.0139	(0.0128)	(0.0128)	0.0609	0.0626	0.1024	0.0623	0.0646
2	0.0989	0.0552	0.0409	0.0336	0.0253	0.0230	0.0192	0.0174	0.0155	0.0146	0.0138	0.0134	0.0131	(0.0127)	(0.0127)	0.0628	0.0618	0.0617		
3	0.0699	0.0409	0.0313	0.0265	0.0215	0.0193	0.0168	0.0156	0.0143	0.0137	0.0130	0.0128	(0.0128)	(0.0125)	(0.0129)	0.0621				
4	0.0553	0.0336	0.0264	0.0227	0.0192	0.0175	0.0155	0.0146	0.0139	0.0133	(0.0128)	(0.0127)	(0.0127)	(0.0124)*	(0.0127)	0.0630				
6	0.0411	0.0283	0.0219	0.0191	0.0168	0.0155	0.0144	0.0138	0.0131	(0.0127)	(0.0127)	(0.0126)	(0.0126)	(0.0125)						
8	0.0336	0.0227	0.0191	0.0174	0.0158	0.0147	0.0136	0.0134	0.0128	(0.0127)	(0.0127)	(0.0126)	(0.0125)							
12	0.0263	0.0192	0.0167	0.0155	0.0145	0.0137	0.0132	0.0128	(0.0127)	(0.0127)	(0.0126)	(0.0125)								
16	0.0229	0.0174	0.0156	0.0146	0.0139	0.0134	(0.0128)	(0.0127)	(0.0127)	(0.0126)										
24	0.0192	0.0161	0.0145	0.0139	0.0132	(0.0128)	(0.0127)	(0.0127)	(0.0126)											
32	0.0173	0.0137	0.0132	0.0133	(0.0127)	(0.0127)	(0.0127)	(0.0126)												
48	0.0156	0.0134	(0.0127)	(0.0128)	(0.0127)	(0.0127)	0.0130	(0.0126)												
64	0.0137	(0.0128)	(0.0126)	(0.0125)	(0.0126)	(0.0126)														
96	(0.0128)	(0.0126)	0.0130	(0.0126)																
128	0.0605	0.0614	0.0625	0.0612																
256	0.0616	0.0614																		
384	0.0617	0.0618																		
512	0.0823																			
768																				
1024	0.0624																			

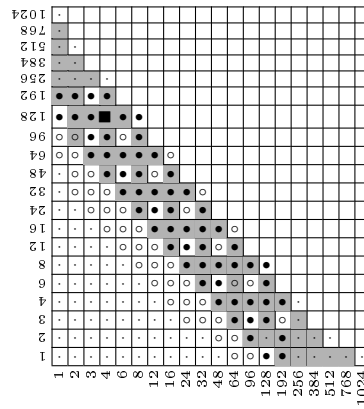


Table131. MB14 Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	1599.440	799.727	533.156	399.870	266.584	199.941	133.298	99.977	66.656	49.995	33.334	25.004	16.673	12.508	8.343	6.261	4.566	6.208	6.484	10.738	
2	799.727	399.870	266.584	199.941	133.298	99.977	66.656	49.995	33.334	25.003	16.673	12.508	8.343	6.261	4.566	6.208	6.484	10.738			
3	533.155	266.584	177.727	133.298	88.870	66.656	44.441	33.334	22.227	16.673	11.120	8.343	5.949	5.671	5.671	6.469	6.469				
4	399.870	199.941	133.298	88.870	66.656	49.995	33.334	25.004	16.673	12.508	8.343	6.261	5.671	5.671	6.469	10.790					
6	266.584	133.298	88.870	66.656	44.441	33.334	22.227	16.673	11.120	8.343	5.900	5.671	5.671	6.469							
8	199.941	99.977	66.656	44.441	33.334	25.004	16.673	12.508	8.343	6.261	5.671	5.671	6.484	10.790							
12	133.298	66.656	44.441	33.334	22.227	16.673	11.120	8.343	5.949	5.671	5.671	6.484									
16	99.977	49.995	33.334	25.004	16.673	12.508	8.343	6.261	5.671	5.671	6.484	10.790									
24	66.656	33.334	22.227	16.673	12.508	8.343	6.261	5.671	5.671	6.484	10.790										
32	49.995	25.004	16.673	12.508	8.343	6.261	5.671	5.671	6.484	10.790											
48	33.334	16.673	11.120	8.343	5.900	5.671	5.671	6.484	10.790												
64	25.004	12.508	8.343	6.261	5.671	5.671	6.484	10.790													
96	16.673	8.343	5.900	5.671	5.671	6.484	10.790														
128	12.508	8.343	6.261	5.671	5.671	6.484	10.790														
192	8.343	5.671	5.671	6.484	10.738																
256	6.261	5.671	6.484																		
384	5.671	6.484																			
512	6.200	10.790																			
768	6.434																				
1024	10.790																				

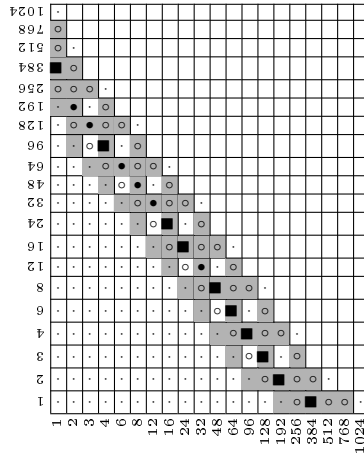


Table132. MB14 Fermi: Increased L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0759	0.0549	0.0495	0.0456	0.0433	0.0395	0.0374	0.0376	0.0361	0.0352	0.0353	(0.0334)	(0.0333)	0.0302	0.0287	0.0285	0.0279	0.0271	0.0271	0.0275
2	0.0570	0.0460	0.0403	0.0406	0.0385	0.0389	0.0360	0.0366	0.0356	0.0345	0.0336	0.0335	(0.0334)	0.0294	0.0280	0.0276	0.0271	0.0271	0.0271	0.0275
3	0.0488	0.0419	0.0379	0.0377	0.0380	0.0364	0.0352	0.0353	0.0364	0.0343	(0.0327)	(0.0332)	0.0340	0.0294	0.0280	0.0276	0.0271	0.0271	0.0271	0.0275
4	0.0461	0.0398	0.0386	0.0384	0.0362	0.0352	0.0354	0.0351	0.0347	0.0335	0.0335	(0.0332)	(0.0319)	0.0294	0.0280	0.0276	0.0271	0.0271	0.0271	0.0275
6	0.0416	0.0388	0.0358	0.0357	0.0352	0.0337	0.0337	(0.0333)	(0.0334)	0.0339	0.0338	(0.0332)	(0.0319)	0.0294	0.0280	0.0276	0.0271	0.0271	0.0271	0.0275
8	0.0402	0.0367	0.0355	0.0370	0.0360	0.0342	0.0337	0.0343	0.0340	0.0362	(0.0324)	(0.0327)	(0.0319)	0.0294	0.0280	0.0276	0.0271	0.0271	0.0271	0.0275
12	0.0383	0.0360	0.0350	0.0362	0.0352	0.0335	(0.0329)	0.0334	(0.0330)	0.0337	(0.0324)	(0.0327)	(0.0319)	0.0294	0.0280	0.0276	0.0271	0.0271	0.0271	0.0275
16	0.0363	0.0353	0.0355	0.0350	0.0342	0.0335	(0.0329)	0.0338	(0.0333)	0.0337	(0.0324)	(0.0327)	(0.0319)	0.0294	0.0280	0.0276	0.0271	0.0271	0.0271	0.0275
24	0.0364	0.0343	0.0342	(0.0332)	0.0336	0.0335	(0.0329)	0.0338	(0.0333)	0.0337	(0.0324)	(0.0327)	(0.0319)	0.0294	0.0280	0.0276	0.0271	0.0271	0.0271	0.0275
32	0.0355	0.0334	(0.0329)	0.0335	0.0336	0.0335	(0.0329)	0.0338	(0.0333)	0.0337	(0.0324)	(0.0327)	(0.0319)	0.0294	0.0280	0.0276	0.0271	0.0271	0.0271	0.0275
48	0.0342	0.0334	(0.0331)	(0.0332)	0.0340	0.0341	(0.0318)*	(0.0330)	(0.0331)	0.0336	0.0341	0.0350								
64	0.0335	0.0334	(0.0330)	(0.0332)	0.0339	0.0335	(0.0327)													
96	0.0335	0.0338	0.0337	0.0339	0.0344	0.0338														
128	0.0879	0.0892	0.0889	0.0874	0.0882	0.0899														
192	0.0879	0.0881	0.0881	0.0895	0.0882															
256	0.0883	0.0885	0.0883	0.0872																
384	0.0878	0.0887																		
512	0.0889	0.0893																		
768	0.0885																			
1024	0.0881																			

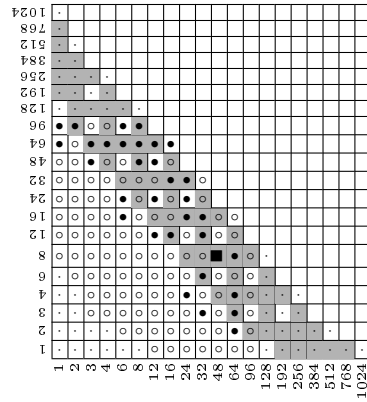


Table133. MB14 Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1846	0.0979	0.0690	0.0545	0.0400	0.0328	0.0257	0.0220	0.0184	0.0166	0.0147	0.0121	0.0138	0.0130	(0.0119)	0.1285	0.0573	0.0585	0.0584	0.0586
2	0.0979	0.0545	0.0401	0.0329	0.0257	0.0220	0.0184	0.0166	0.0147	0.0139	0.0129	0.0121	0.0123	(0.0117)	(0.0118)	0.0589	0.0593	0.0575		
3	0.0690	0.0401	0.0304	0.0256	0.0206	0.0184	0.0159	0.0148	0.0136	0.0129	(0.0123)	(0.0119)	(0.0119)	(0.0119)	0.0235					
4	0.0545	0.0328	0.0254	0.0220	0.0184	0.0165	0.0148	0.0147	0.0129	0.0124	(0.0119)	(0.0119)	(0.0119)	(0.0117)	(0.0117)					
6	0.0401	0.0266	0.0208	0.0183	0.0159	0.0147	0.0136	0.0130	0.0124	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0117)	(0.0117)					
8	0.0328	0.0219	0.0184	0.0163	0.0148	0.0139	0.0129	0.0124	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0117)	(0.0117)					
12	0.0255	0.0184	0.0159	0.0148	0.0136	0.0130	0.0124	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0117)	(0.0117)					
16	0.0220	0.0166	0.0148	0.0138	0.0130	0.0123	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0117)	(0.0117)					
24	0.0184	0.0148	0.0139	0.0129	0.0123	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0117)	(0.0117)					
32	0.0166	0.0139	0.0131	0.0124	0.0120	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0117)	(0.0117)					
48	0.0147	0.0130	(0.0123)	(0.0120)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0117)	(0.0117)					
64	0.0138	0.0126	(0.0120)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0117)	(0.0117)					
96	0.0130	(0.0120)	(0.0119)	(0.0118)	(0.0121)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0117)	(0.0117)					
128	(0.0119)	(0.0117)	(0.0120)	(0.0117)*																
192	0.0595	0.0602	0.0583	0.0592																
256	0.0587	0.0587																		
384	0.0597	0.0580																		
512	0.0579																			
768																				
1024	0.0588																			

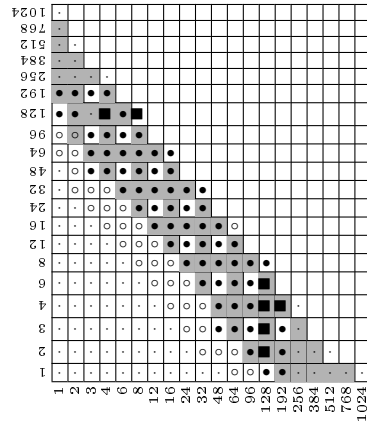


Table134. MB14 Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	1599.440	799.720	533.154	399.869	266.583	199.940	133.298	99.976	66.655	49.994	33.333	25.003	16.673	12.507	8.342	6.260	4.690	3.464	2.592	1.944
2	799.726	399.869	266.583	199.940	133.298	99.976	66.655	49.994	33.333	25.003	16.673	12.507	8.342	6.260	4.690	3.464	2.592	1.944	1.458	1.094
3	533.155	266.583	177.726	133.298	88.869	66.655	44.440	33.333	22.222	16.673	11.119	8.342	5.925	4.364	3.260	2.448	1.824	1.371	1.028	0.771
4	399.869	199.940	133.298	99.976	66.655	44.440	33.333	25.003	16.673	12.507	8.342	5.931	4.364	3.260	2.448	1.824	1.371	1.028	0.771	0.578
6	266.583	133.298	88.869	66.655	44.440	33.333	22.222	16.673	11.119	8.342	5.931	4.364	3.260	2.448	1.824	1.371	1.028	0.771	0.578	0.434
8	199.941	99.976	66.655	44.440	33.333	25.003	16.673	12.507	8.342	5.931	4.364	3.260	2.448	1.824	1.371	1.028	0.771	0.578	0.434	0.325
12	133.297	66.655	44.440	33.333	22.222	16.673	11.119	8.342	5.931	4.364	3.260	2.448	1.824	1.371	1.028	0.771	0.578	0.434	0.325	0.244
16	99.976	49.994	33.333	25.003	16.673	12.507	8.342	5.931	4.364	3.260	2.448	1.824	1.371	1.028	0.771	0.578	0.434	0.325	0.244	0.183
24	66.655	33.333	22.222	16.673	11.119	8.342	5.931	4.364	3.260	2.448	1.824	1.371	1.028	0.771	0.578	0.434	0.325	0.244	0.183	0.137
32	49.994	25.003	16.673	12.507	8.342	5.931	4.364	3.260	2.448	1.824	1.371	1.028	0.771	0.578	0.434	0.325	0.244	0.183	0.137	0.102
48	33.333	16.673	11.119	8.342	5.931	4.364	3.260	2.448	1.824	1.371	1.028	0.771	0.578	0.434	0.325	0.244	0.183	0.137	0.102	0.075
64	25.003	12.507	8.342	5.931	4.364	3.260	2.448	1.824	1.371	1.028	0.771	0.578	0.434	0.325	0.244	0.183	0.137	0.102	0.075	0.056
96	16.673	8.342	5.931	4.364	3.260	2.448	1.824	1.371	1.028	0.771	0.578	0.434	0.325	0.244	0.183	0.137	0.102	0.075	0.056	0.042
128	12.507	6.260	4.364	3.260	2.448	1.824	1.371	1.028	0.771	0.578	0.434	0.325	0.244	0.183	0.137	0.102	0.075	0.056	0.042	0.031
192	8.342	4.364	3.260	2.448	1.824	1.371	1.028	0.771	0.578	0.434	0.325	0.244	0.183	0.137	0.102	0.075	0.056	0.042	0.031	0.023
256	6.260	3.260	2.448	1.824	1.371	1.028	0.771	0.578	0.434	0.325	0.244	0.183	0.137	0.102	0.075	0.056	0.042	0.031	0.023	0.017
384	4.364	2.448	1.824	1.371	1.028	0.771	0.578	0.434	0.325	0.244	0.183	0.137	0.102	0.075	0.056	0.042	0.031	0.023	0.017	0.013
512	3.260	1.824	1.371	1.028	0.771	0.578	0.434	0.325	0.244	0.183	0.137	0.102	0.075	0.056	0.042	0.031	0.023	0.017	0.013	0.010
768	2.448	1.371	1.028	0.771	0.578	0.434	0.325	0.244	0.183	0.137	0.102	0.075	0.056	0.042	0.031	0.023	0.017	0.013	0.010	0.007
1024	1.824	1.028	0.771	0.578	0.434	0.325	0.244	0.183	0.137	0.102	0.075	0.056	0.042	0.031	0.023	0.017	0.013	0.010	0.007	0.005

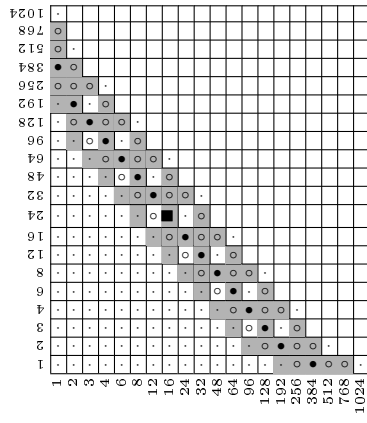


Table 135. MB14 Fermi: Without L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0407	0.0328	0.0281	0.0286	0.0264	0.0261	0.0233	0.0251	0.0229	0.0243	0.0236	(0.0219)	0.0243	0.0243	0.0237	0.0235	0.0235	0.0235	0.0235	0.0235
2	0.0330	0.0280	0.0253	0.0257	0.0249	0.0245	0.0244	0.0243	(0.0226)	0.0243	0.0238	0.0234	0.0237	0.0237	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
3	0.0297	0.0269	0.0257	0.0250	0.0242	0.0242	0.0243	(0.0226)	0.0241	0.0236	0.0238	0.0235	0.0237	0.0237	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
4	0.0280	0.0261	0.0250	0.0244	(0.0224)	0.0242	0.0241	0.0234	(0.0221)	(0.0226)	0.0233	0.0237	(0.0222)	(0.0222)	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
6	0.0266	0.0250	0.0248	0.0243	0.0241	0.0240	0.0238	0.0237	0.0235	0.0235	0.0236	0.0234	0.0234	0.0234	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
8	0.0256	0.0238	0.0249	0.0242	0.0238	0.0237	0.0238	0.0237	0.0235	0.0235	0.0236	0.0234	0.0234	0.0234	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
12	0.0251	0.0244	0.0237	0.0231	0.0240	0.0235	0.0236	0.0235	0.0234	0.0234	0.0237	(0.0219)	0.0237	0.0237	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
16	0.0243	0.0227	0.0237	0.0242	0.0239	0.0238	0.0232	(0.0216)	0.0232	0.0232	0.0234	(0.0219)	0.0232	0.0232	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
24	0.0240	0.0243	0.0232	(0.0220)	(0.0220)	0.0230	0.0233	0.0230	0.0232	(0.0220)	0.0232	(0.0219)	0.0232	0.0232	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
32	0.0239	0.0232	(0.0222)	(0.0223)	0.0237	0.0233	0.0237	(0.0217)	(0.0225)	(0.0216)*	0.0235	0.0234	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
48	0.0237	(0.0219)	0.0240	0.0230	0.0230	0.0233	0.0233	(0.0218)	(0.0225)	0.0234	0.0233	0.0234	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
64	0.0233	(0.0220)	0.0230	0.0235	0.0235	0.0236	0.0236	0.0233	0.0234	0.0233	0.0233	0.0234	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
96	0.0242	0.0235	0.0238	0.0237	0.0234	(0.0222)	0.0233	0.0233	0.0233	0.0233	0.0233	0.0234	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235	0.0235
128	0.0581	0.0587	0.0583	0.0588	0.0570	0.0572	0.0582	0.0581	0.0587	0.0583	0.0588	0.0585	0.0580	0.0570	0.0588	0.0588	0.0585	0.0579	0.0581	0.0580
192	0.0591	0.0586	0.0585	0.0580	0.0570	0.0588	0.0582	0.0581	0.0587	0.0583	0.0588	0.0585	0.0580	0.0570	0.0588	0.0588	0.0585	0.0579	0.0581	0.0580
256	0.0565	0.0585	0.0585	0.0580	0.0570	0.0588	0.0582	0.0581	0.0587	0.0583	0.0588	0.0585	0.0580	0.0570	0.0588	0.0588	0.0585	0.0579	0.0581	0.0580
384	0.0580	0.0570	0.0585	0.0580	0.0570	0.0588	0.0582	0.0581	0.0587	0.0583	0.0588	0.0585	0.0580	0.0570	0.0588	0.0588	0.0585	0.0579	0.0581	0.0580
512	0.0584	0.0570	0.0585	0.0580	0.0570	0.0588	0.0582	0.0581	0.0587	0.0583	0.0588	0.0585	0.0580	0.0570	0.0588	0.0588	0.0585	0.0579	0.0581	0.0580
768	0.0592	0.0584	0.0585	0.0580	0.0570	0.0588	0.0582	0.0581	0.0587	0.0583	0.0588	0.0585	0.0580	0.0570	0.0588	0.0588	0.0585	0.0579	0.0581	0.0580
1024	0.0581	0.0584	0.0585	0.0580	0.0570	0.0588	0.0582	0.0581	0.0587	0.0583	0.0588	0.0585	0.0580	0.0570	0.0588	0.0588	0.0585	0.0579	0.0581	0.0580

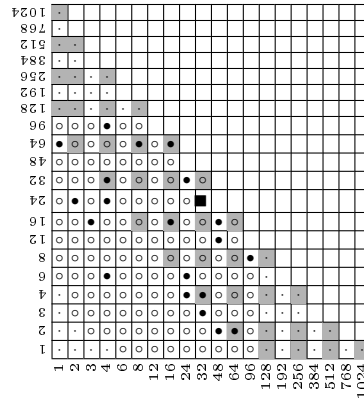


Table136. MB0 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.0812	0.0437	0.0313	0.0251	0.0188	0.0157	0.0126	0.0110	0.0095	0.0088	0.0078	0.0075	0.0071	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
2	0.0437	0.0251	0.0188	0.0157	0.0126	0.0110	0.0095	0.0088	0.0078	0.0074	0.0070	0.0069	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
3	0.0313	0.0188	0.0147	0.0126	0.0105	0.0094	0.0084	0.0078	0.0073	0.0071	0.0069	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
4	0.0251	0.0157	0.0126	0.0110	0.0095	0.0087	0.0079	0.0074	0.0071	0.0070	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
6	0.0188	0.0126	0.0105	0.0094	0.0083	0.0078	0.0073	0.0071	0.0070	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
8	0.0157	0.0110	0.0094	0.0087	0.0078	0.0075	0.0069	0.0069	0.0069	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
12	0.0126	0.0087	0.0079	0.0075	0.0071	0.0069	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
16	0.0110	0.0078	0.0073	0.0071	0.0069	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
24	0.0087	0.0074	0.0069	0.0071	0.0069	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
32	0.0078	0.0071	0.0069	0.0071	0.0069	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
48	0.0074	0.0069	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
64	0.0071	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
96	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
128	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
192	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)	(0.0068)
256	0.0380	0.0379																			
384	0.0385	0.0370																			
512	0.0385	0.0370																			
768	0.0374																				
1024	0.0383																				

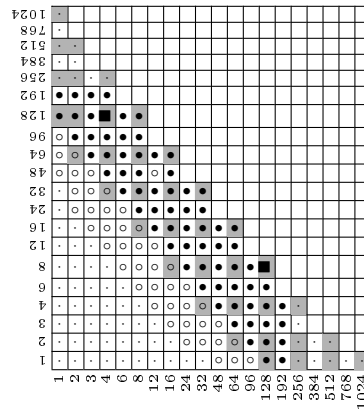


Table137. MB0 Kepler: Normal L1, size 192×192, milliseconds.

1	643,010	322,713	216,162	162,417	109,564	82,207	55,501	41,845	28,768	21,575	14,078	10,560	7,042	5,288	4,673	4,353	4,570	4,541	6,286	4,856
2	323,117	162,452	108,158	82,572	56,098	42,552	28,772	21,565	14,078	10,560	7,043	5,288	4,674	5,288	4,692	4,353	4,570	4,541	6,286	4,856
3	215,940	108,900	72,731	56,091	36,915	28,754	18,769	14,078	9,388	7,042	5,253	4,673	4,325	4,352	4,352	4,352	4,352	4,352	4,352	4,352
4	162,716	82,135	55,188	42,024	28,766	21,578	14,078	10,560	7,042	5,284	4,673	4,351	4,690	4,352	4,352	4,352	4,352	4,352	4,352	4,352
6	109,100	53,367	38,086	28,766	18,769	14,078	9,388	7,042	5,250	4,674	4,420	4,694	5,308	4,352	4,352	4,352	4,352	4,352	4,352	4,352
8	82,864	42,726	28,766	21,575	14,078	10,560	7,043	5,284	4,733	4,334	4,691	5,400	6,314	4,865	4,865	4,865	4,865	4,865	4,865	4,865
12	55,890	28,766	18,769	14,078	10,560	7,042	5,271	4,673	4,434	4,691	5,400	6,343	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857
16	42,217	21,579	14,078	10,560	7,042	5,251	4,691	4,456	4,691	5,258	6,328	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857
24	28,779	14,078	9,388	7,042	5,284	4,673	4,351	4,692	4,541	6,285	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857
32	21,576	10,566	7,042	5,284	4,673	4,326	4,691	5,308	6,332	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857
48	13,061	7,043	5,250	4,673	4,426	4,691	4,541	6,295	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857
64	10,560	5,288	4,673	4,327	4,570	5,400	6,301	4,748	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857
96	7,043	4,673	4,327	4,570	5,400	6,291	4,748	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857
128	5,284	4,351	4,691	4,541	6,149	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857
192	4,673	4,691	5,402	6,149	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857
256	4,691	6,319	6,232	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857
384	4,691	6,319	6,232	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857
512	4,691	6,319	6,232	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857	4,857
768	6,283	4,868	4,868	4,868	4,868	4,868	4,868	4,868	4,868	4,868	4,868	4,868	4,868	4,868	4,868	4,868	4,868	4,868	4,868	4,868
1024	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867	4,867

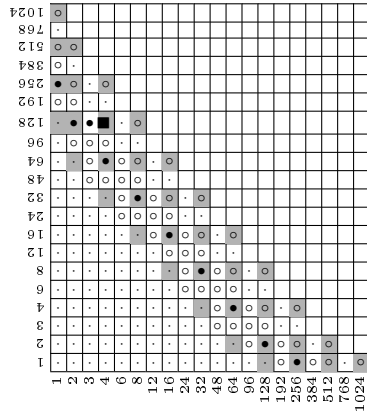


Table 138. MB0 Kepler: Normal L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.0389	0.0296	0.0266	0.0249	0.0231	0.0220	0.0214	0.0211	0.0208	0.0202	0.0197	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196
2	0.0293	0.0249	0.0232	0.0221	0.0215	0.0208	0.0208	0.0203	0.0200	0.0198	0.0197	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196
3	0.0262	0.0227	0.0220	0.0218	0.0209	0.0207	0.0203	0.0195	0.0192	0.0190	0.0189	0.0188	0.0188	0.0188	0.0188	0.0188	0.0188	0.0188	0.0188	0.0188	0.0188
4	0.0245	0.0217	0.0211	0.0212	0.0205	0.0205	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201
6	0.0229	0.0211	0.0212	0.0205	0.0205	0.0205	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201
8	0.0227	0.0211	0.0204	0.0205	0.0202	0.0202	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201
12	0.0211	0.0204	0.0205	0.0205	0.0202	0.0202	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201
16	0.0211	0.0204	0.0205	0.0205	0.0202	0.0202	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201
24	0.0209	0.0203	0.0202	0.0203	0.0202	0.0202	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201
32	0.0210	0.0200	0.0202	0.0202	0.0202	0.0202	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201	0.0201
48	0.0201	0.0197	0.0202	0.0202	0.0195	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196
64	0.0201	0.0197	0.0202	0.0202	0.0195	0.0194	0.0194	0.0194	0.0194	0.0194	0.0194	0.0194	0.0194	0.0194	0.0194	0.0194	0.0194	0.0194	0.0194	0.0194	0.0194
96	0.0199	0.0199	0.0197	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196	0.0196
128	0.0580	0.0568	0.0569	0.0565	0.0564	0.0573															
192	0.0574	0.0577	0.0578	0.0569	0.0564																
256	0.0569	0.0569	0.0569	0.0567																	
384	0.0582	0.0569	0.0568																		
512	0.0568	0.0573																			
768	0.0567																				
1024	0.0568																				

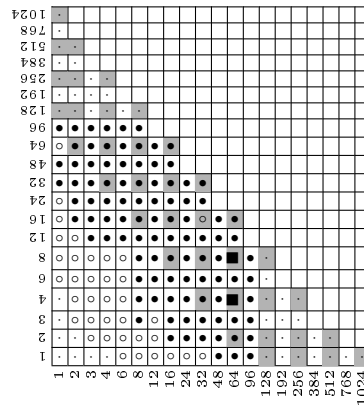


Table 139. MB0 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0814	0.0439	0.0313	0.0251	0.0188	0.0157	0.0126	0.0110	0.0096	0.0087	0.0078	0.0075	0.0071	0.0067	0.0068	0.0416	0.0413	0.0417	0.0420	0.0411
2	0.0437	0.0251	0.0188	0.0157	0.0126	0.0110	0.0095	0.0087	0.0078	0.0074	0.0071	0.0069	0.0068	0.0067	0.0068	0.0412	0.0405	0.0417	0.0420	0.0411
3	0.0313	0.0188	0.0147	0.0126	0.0105	0.0095	0.0084	0.0078	0.0073	0.0070	0.0069	0.0068	0.0068	0.0068	0.0068	0.0408	0.0405	0.0417	0.0420	0.0411
4	0.0250	0.0157	0.0126	0.0110	0.0095	0.0087	0.0078	0.0075	0.0069	0.0069	0.0069	0.0068	0.0068	0.0068	0.0068	0.0412				
6	0.0188	0.0126	0.0105	0.0095	0.0083	0.0078	0.0073	0.0071	0.0069	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068					
8	0.0157	0.0110	0.0095	0.0087	0.0078	0.0075	0.0071	0.0069	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068					
12	0.0111	0.0085	0.0073	0.0071	0.0071	0.0071	0.0070	0.0069	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068					
16	0.0095	0.0079	0.0073	0.0071	0.0071	0.0071	0.0070	0.0069	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068					
24	0.0087	0.0075	0.0071	0.0069	0.0069	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068					
32	0.0087	0.0071	0.0069	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068					
48	0.0075	0.0071	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068					
64	0.0075	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068					
96	0.0071	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068					
128	0.0067	0.0067	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066					
192	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068					
256	0.0401	0.0409																		
384	0.0408	0.0397																		
512	0.0406	0.0406																		
768	0.0407																			
1024	0.0407																			

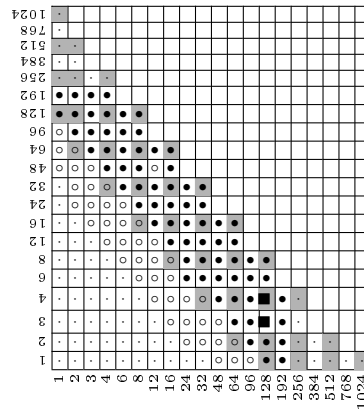


Table140. MB0 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	632.598	322.322	215.523	162.355	108.982	81.924	55.007	42.439	28.548	21.578	14.078	10.560	7.042	5.284	4.692	4.351	4.159	4.423	6.321	4.848
2	320.200	162.551	107.875	83.013	55.484	41.986	28.768	20.767	14.078	10.560	6.534	5.284	4.692	4.351	4.159	4.537	6.241	4.868		
3	213.430	108.455	73.868	56.257	38.335	28.768	17.412	14.078	9.388	7.042	5.011	4.359	4.435	4.569	5.402	6.054				
4	162.638	82.241	54.514	42.178	28.704	20.016	14.078	10.560	7.042	5.284	4.673	4.691	5.399	6.339						
6	108.752	55.500	37.913	28.634	18.769	14.078	9.388	7.042	5.250	4.673	4.426	4.691	5.406							
8	82.163	42.124	28.800	21.574	14.078	10.560	7.042	5.284	4.674	4.428	4.659	4.541	6.174	4.862						
12	56.195	28.767	18.769	14.078	9.388	7.042	5.250	4.674	4.352	4.691	4.541	5.405								
16	42.165	21.907	14.078	10.560	7.042	5.251	4.673	4.328	4.601	4.541	5.797	4.868								
24	28.835	14.078	9.388	7.042	5.284	4.673	4.328	4.601	4.541	6.291	4.868									
32	21.678	10.560	7.042	5.284	4.673	4.328	4.601	4.541	6.291	4.868										
48	14.078	6.534	5.250	4.673	4.456	4.691	5.404	6.314	4.859											
64	10.287	5.284	4.673	4.693	4.693	4.541	6.314	4.859												
96	6.534	4.674	4.427	4.693	5.403	6.315														
128	5.283	4.374	4.591	4.541	6.332	4.872														
192	4.673	4.690	5.459	6.338																
256	4.351	4.541	6.322	4.860																
384	4.690	6.310																		
512	4.540	4.868																		
768	6.226																			
1024	4.870																			

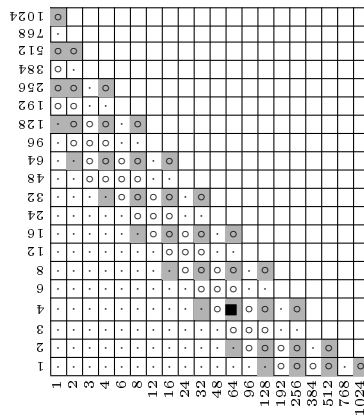


Table 141. MB0 Kepler: Increased L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0420	0.0328	0.0297	0.0280	0.0261	0.0243	0.0247	0.0239	0.0237	(0.0219)	(0.0217)	0.0235	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232
2	0.0320	0.0280	0.0246	0.0253	0.0253	0.0243	0.0238	0.0243	0.0239	(0.0219)	(0.0219)	0.0230	0.0230	0.0230	0.0230	0.0230	0.0230	0.0230	0.0230	0.0230
3	0.0293	0.0265	0.0252	0.0246	0.0243	0.0235	0.0239	0.0238	0.0232	0.0235	0.0232	0.0232	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231
4	0.0265	0.0254	0.0229	0.0247	0.0240	0.0235	(0.0215)	0.0235	0.0233	0.0238	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231
6	0.0265	0.0233	0.0241	0.0225	0.0235	0.0235	0.0236	0.0234	0.0236	0.0231	(0.0221)	0.0229	0.0229	0.0229	0.0229	0.0229	0.0229	0.0229	0.0229	0.0229
8	0.0256	0.0242	0.0238	0.0241	0.0229	0.0238	0.0235	0.0233	0.0236	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231
12	0.0246	0.0230	0.0236	0.0237	0.0235	0.0238	0.0233	0.0233	0.0233	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231
16	0.0244	0.0234	0.0238	0.0235	0.0231	0.0238	0.0233	(0.0216)	0.0233	0.0231	(0.0217)	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231
24	(0.0219)	0.0234	0.0238	0.0230	0.0231	0.0234	0.0232	(0.0216)	0.0234	(0.0217)	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231
32	0.0238	0.0238	(0.0219)*	0.0235	0.0231	0.0234	0.0232	0.0232	0.0234	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231
48	0.0238	(0.0220)	0.0233	(0.0220)	(0.0219)	0.0234	0.0233	0.0233	0.0234	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231
64	(0.0217)	(0.0218)	0.0232	0.0230	0.0233	0.0233	0.0233	0.0233	0.0233	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231
96	0.0589	0.0591	0.0583	0.0586	0.0586	0.0586	0.0585													
128	0.0584	0.0586	0.0581	0.0582	0.0581	0.0581														
192	0.0584	0.0566	0.0581	0.0582	0.0581	0.0581														
256	0.0584	0.0579	0.0581	0.0582	0.0581	0.0581														
384	0.0567	0.0584																		
512	0.0595																			
768																				
1024	0.0570																			

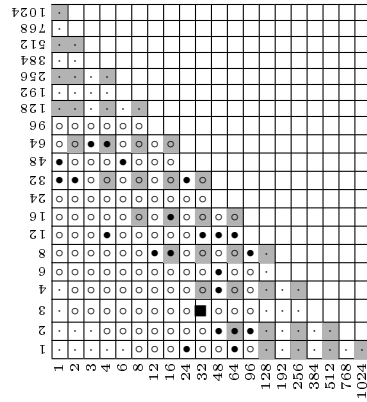


Table142. MB0 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.0916	0.0562	0.0438	0.0374	0.0316	0.0279	0.0245	0.0110	0.0216	0.0201	0.0208	0.0195	0.0194	0.0067	0.0068	0.0803	0.0382	0.0385	0.0385	0.0375	
2	0.0438	0.0251	0.0189	0.0157	0.0126	0.0111	0.0095	0.0087	0.0079	0.0074	0.0070	0.0069	0.0068	0.0066	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068
3	0.0313	0.0188	0.0147	0.0126	0.0105	0.0095	0.0083	0.0078	0.0075	0.0072	0.0069	0.0068	0.0068	0.0066	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068
4	0.0251	0.0157	0.0126	0.0111	0.0094	0.0087	0.0078	0.0074	0.0071	0.0069	0.0068	0.0068	0.0068	0.0066	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068
6	0.0188	0.0126	0.0105	0.0095	0.0083	0.0078	0.0073	0.0071	0.0069	0.0068	0.0068	0.0068	0.0068	0.0066	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068
8	0.0157	0.0110	0.0095	0.0087	0.0078	0.0074	0.0071	0.0070	0.0069	0.0068	0.0068	0.0068	0.0068	0.0066	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068
12	0.0111	0.0087	0.0078	0.0073	0.0071	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0066	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068
16	0.0095	0.0078	0.0073	0.0071	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0066	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068
24	0.0087	0.0074	0.0071	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0066	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068
32	0.0078	0.0071	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0066	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068
48	0.0074	0.0071	0.0069	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0066	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068
64	0.0071	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0066	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068	0.0068
96	0.0067	0.0068	0.0067	0.0067	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066
128	0.0068	0.0068	0.0067	0.0067	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066
192	0.0068	0.0068	0.0067	0.0067	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066	0.0066
256	0.0392	0.0380	0.0379	0.0376																	
384	0.0391	0.0371																			
512	0.0378	0.0376																			
768	0.0376																				
1024	0.0378																				

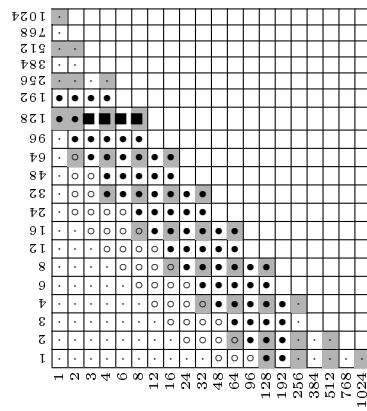


Table143. MB0 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	632.886	323.223	215.080	162.954	109.300	82.761	56.209	40.992	27.793	21.579	14.078	10.560	6.860	5.288	4.673	4.351	4.516	4.876			
2	323.030	162.883	108.321	81.740	55.743	42.304	28.769	21.577	14.078	10.165	7.042	5.288	4.328	4.351	4.693	4.423	4.516	4.876			
3	215.535	108.980	73.344	53.338	38.354	28.767	17.412	14.078	8.709	6.695	5.251	4.673	4.320	4.691	5.198	6.173					
4	162.966	82.629	55.069	41.002	28.768	21.578	13.383	10.560	7.042	5.284	4.520	4.353	4.691	4.841	6.012	4.570					
6	109.739	56.343	36.438	28.768	18.282	14.078	9.144	6.695	5.135	4.552	4.327	4.569	5.266	6.318							
8	82.633	41.528	28.752	20.499	13.061	10.560	7.042	5.147	4.498	4.873	4.690	4.423	5.350	4.946							
12	54.415	28.776	18.769	14.078	9.036	7.042	5.250	4.686	(4.292)	4.691	4.569	6.097									
16	41.530	21.576	13.713	10.164	7.042	5.023	4.673	(4.291)	4.691	4.561	6.305	4.616									
24	28.768	14.078	9.036	7.042	4.885	4.498	4.429	4.692	5.405	6.311											
32	21.017	10.282	6.534	4.962	4.353	(4.317)	4.515	(4.213)	6.045	4.898											
48	13.061	6.534	5.060	4.353	(4.200)	4.691	5.202	6.009													
64	10.560	5.085	4.873	(4.313)	4.691	6.330															
96	7.042	(4.335)	(4.313)	4.691	5.195	4.838															
128	5.288	(4.188)	4.459	(4.213)	6.341	4.636															
192	4.571	4.569	5.010	6.095																	
256	(4.292)	4.840	6.059	4.716																	
384	4.690	6.154																			
512	(4.817)	4.752																			
768	6.269																				
1024	4.784																				

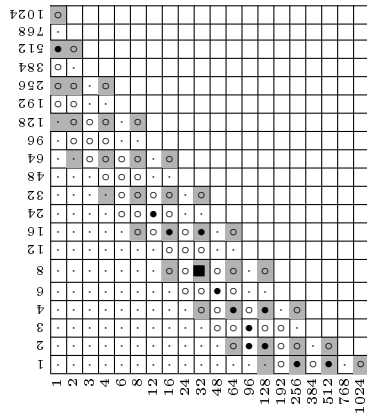


Table 144. MB0 Kepler: Without L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024	
1	0.0472	0.0366	0.0318	0.0294	0.0281	0.0263	0.0261	0.0249	0.0252	0.0247	0.0243	0.0243	0.0247	0.0590	0.0588	0.0589	0.0653	0.0596	0.0581		
2	0.0366	0.0300	0.0282	0.0257	0.0261	0.0257	0.0249	(0.0233)	0.0244	0.0244	0.0245	0.0245	0.0241	0.0589	0.0589	0.0590	0.0601	0.0581			
3	0.0327	0.0284	0.0271	0.0266	0.0264	0.0238	0.0231	0.0247	0.0241	0.0246	0.0240	0.0243	0.0244	0.0557	0.0550	0.0585					
4	0.0311	0.0278	0.0263	0.0258	0.0254	0.0235	0.0232	0.0242	0.0242	(0.0239)	0.0239	0.0242	0.0240	0.0588	0.0588	0.0593	0.0581				
6	0.0294	0.0273	0.0261	0.0258	0.0250	0.0234	0.0235	(0.0230)	0.0243	(0.0232)	0.0241	0.0245	0.0241	0.0589							
8	0.0290	0.0261	0.0261	0.0244	0.0254	0.0244	0.0247	0.0241	0.0245	0.0246	(0.0234)	0.0241	0.0241	0.0600							
12	0.0280	0.0245	0.0250	0.0240	0.0251	0.0250	0.0245	0.0242	0.0241	0.0242	0.0242	0.0240									
16	0.0273	0.0262	0.0254	0.0244	0.0243	(0.0235)	*	0.0245	0.0243	0.0243	0.0244	0.0242									
24	0.0266	0.0243	0.0257	0.0246	0.0244	0.0245	0.0246	0.0243	0.0239	0.0241	0.0243	0.0242									
32	0.0276	0.0254	0.0252	0.0244	0.0245	0.0245	0.0244	0.0244	0.0246	0.0241											
48	0.0269	(0.0235)	0.0254	0.0249	0.0249	0.0243	0.0243	0.0243	0.0243	0.0246											
64	0.0259	0.0259	0.0249	0.0242	0.0246	0.0240	0.0240	0.0242													
96	0.0255	0.0254	0.0257	0.0246	0.0248	0.0244															
128	0.0587	0.0591	0.0581	0.0586	0.0591	0.0589															
192	0.0595	0.0594	0.0599	0.0588																	
256	0.0585	0.0580	0.0583																		
384	0.0566																				
512	0.0576	0.0591																			
768	0.0578																				
1,024	0.0582																				

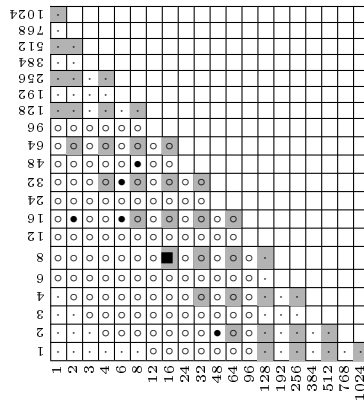


Table 145. MB1 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0995	0.0532	0.0380	0.0299	0.0222	0.0183	0.0143	0.0125	0.0108	0.0097	0.0090	0.0083	0.0079	0.0074	0.0078	0.0081	0.0373	0.0374	0.0378	0.0378
2	0.0566	0.0318	0.0234	0.0192	0.0152	0.0130	0.0113	0.0099	0.0091	0.0082	0.0080	0.0078	0.0074	0.0075	0.0079	0.0081	0.0369	0.0375		
3	0.0428	0.0246	0.0187	0.0157	0.0129	0.0113	0.0101	0.0089	0.0084	0.0079	0.0080	0.0078	0.0074	0.0075	0.0079	0.0081	0.0369	0.0375		
4	0.0355	0.0210	0.0164	0.0140	0.0118	0.0105	0.0093	0.0084	0.0080	0.0077	0.0078	0.0078	0.0074	0.0075	0.0079	0.0081	0.0369	0.0375		
6	0.0285	0.0177	0.0143	0.0124	0.0107	0.0093	0.0083	0.0081	0.0079	0.0077	0.0078	0.0078	0.0074	0.0075	0.0079	0.0081	0.0369	0.0375		
8	0.0252	0.0160	0.0132	0.0115	0.0099	0.0087	0.0083	0.0079	0.0079	0.0078	0.0078	0.0078	0.0074	0.0075	0.0079	0.0081	0.0369	0.0375		
12	0.0217	0.0144	0.0121	0.0100	0.0090	0.0082	0.0082	0.0078	0.0079	0.0078	0.0078	0.0078	0.0074	0.0075	0.0079	0.0081	0.0369	0.0375		
16	0.0201	0.0135	0.0109	0.0092	0.0085	0.0082	0.0080	0.0079	0.0081	0.0078	0.0078	0.0078	0.0074	0.0075	0.0079	0.0081	0.0369	0.0375		
24	0.0184	0.0115	0.0095	0.0086	0.0082	0.0082	0.0080	0.0079	0.0081	0.0078	0.0078	0.0078	0.0074	0.0075	0.0079	0.0081	0.0369	0.0375		
32	0.0175	0.0104	0.0095	0.0084	0.0082	0.0082	0.0080	0.0079	0.0081	0.0078	0.0078	0.0078	0.0074	0.0075	0.0079	0.0081	0.0369	0.0375		
48	0.0146	0.0066	0.0094	0.0084	0.0082	0.0082	0.0080	0.0079	0.0081	0.0078	0.0078	0.0078	0.0074	0.0075	0.0079	0.0081	0.0369	0.0375		
64	0.0127	0.0097	0.0093	0.0084	0.0082	0.0082	0.0080	0.0079	0.0081	0.0078	0.0078	0.0078	0.0074	0.0075	0.0079	0.0081	0.0369	0.0375		
96	0.0124	0.0097	0.0094	0.0086	0.0082	0.0082	0.0080	0.0079	0.0081	0.0078	0.0078	0.0078	0.0074	0.0075	0.0079	0.0081	0.0369	0.0375		
128	0.0108	0.0091	0.0088	0.0088	0.0085	0.0085	0.0081													
192	0.0125	0.0100	0.0101	0.0093																
256	0.0372	0.0379																		
384	0.0381	0.0379																		
512	0.0379																			
768	0.0372																			
1024																				

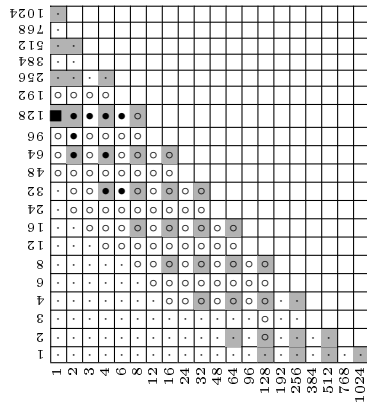


Table146. MB1 Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.0432	0.0420	0.0284	0.0355	0.0239	0.0326	0.0222	0.0220	0.0214	0.0305	(0.0208)	0.0306	(0.0205)	0.0564	0.0565	0.0563	0.0335	0.0941	0.0946	0.0571	
2	0.0325	0.0268	0.0245	0.0326	0.0231	0.0319	0.0215	(0.0208)	(0.0209)	(0.0207)	(0.0204)	(0.0202)	(0.0205)	0.0565	0.0939	0.0560					
3	0.0290	0.0250	0.0232	0.0228	0.0221	0.0312	0.0307	0.0307	(0.0207)	(0.0207)	(0.0209)	(0.0201)	(0.0210)	0.0574	0.0938	0.0562					
4	0.0275	0.0335	0.0233	0.0224	0.0316	0.0213	0.0307	(0.0209)	(0.0207)	(0.0205)	(0.0204)	(0.0203)	(0.0206)	0.0574	0.0946	0.0576					
6	0.0264	0.0232	0.0224	0.0220	0.0309	(0.0211)	(0.0210)	0.0305	(0.0204)	(0.0203)	(0.0203)	(0.0203)	(0.0203)	0.0568							
8	0.0244	0.0227	0.0221	0.0219	0.0308	(0.0209)	(0.0209)	0.0306	(0.0209)	(0.0204)	(0.0203)	(0.0207)	0.0300	0.0948							
12	0.0242	0.0218	0.0217	0.0310	0.0212	(0.0207)	(0.0210)	(0.0206)	(0.0204)	(0.0204)	(0.0203)	(0.0207)									
16	0.0241	0.0222	0.0219	(0.0211)	(0.0208)	(0.0210)	(0.0207)	(0.0206)	(0.0204)	(0.0204)	(0.0207)	0.0299									
24	0.0231	0.0216	0.0220	0.0220	0.0216	(0.0209)	0.0307	(0.0206)	(0.0201)*	(0.0209)											
32	0.0237	0.0220	0.0217	0.0214	0.0307	0.0313	0.0212	0.0302	0.0308	(0.0204)											
48	0.0218	0.0215	(0.0211)	(0.0209)	0.0217	0.0214	(0.0207)	(0.0204)													
64	0.0216	0.0215	(0.0211)	(0.0209)	(0.0209)	(0.0204)	(0.0205)	(0.0204)													
96	0.0218	0.0215	0.0216	(0.0207)	(0.0204)	(0.0205)	(0.0207)														
128	0.0572	0.0575	0.0574	0.0565	0.0573	0.0572															
192	0.0572	0.0573	0.0570	0.0572																	
256	0.0572	0.0563																			
384	0.0572	0.0563																			
512	0.0582	0.0569																			
768	0.0569																				
1024	0.0567																				

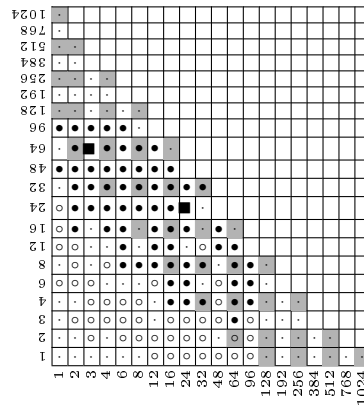


Table148. MB1 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1137	0.0530	0.0532	0.0299	0.0362	0.0332	0.0272	0.0258	0.0109	0.0097	0.0089	0.0225	0.0079	0.0075	0.0219	0.0404	0.0404	0.0417	0.0844	0.0414
2	0.0467	0.0317	0.0234	0.0191	0.0151	0.0130	0.0251	0.0242	0.0091	0.0083	0.0080	0.0077	0.0210	0.0075	0.0079	0.0419	0.0860	0.0864		
3	0.0426	0.0247	0.0329	0.0157	0.0275	0.0115	0.0101	0.0227	0.0214	0.0079	0.0213	0.0237	0.0079	0.0079	0.0082	0.0412				
4	0.0456	0.0211	0.0305	0.0140	0.0118	0.0105	0.0241	0.0084	0.0081	0.0079	0.0079	0.0079	0.0079	0.0079	0.0232	0.0406				
6	0.0428	0.0178	0.0287	0.0265	0.0229	0.0227	0.0087	0.0225	0.0219	0.0080	0.0080	0.0211	0.0082	0.0079						
8	0.0252	0.0203	0.0132	0.0116	0.0099	0.0222	0.0083	0.0226	0.0080	0.0079	0.0212	0.0075	0.0083	0.0075						
12	0.0218	0.0144	0.0121	0.0243	0.0231	0.0082	0.0215	0.0247	0.0081	0.0079	0.0082	0.0214								
16	0.0333	0.0135	0.0249	0.0092	0.0086	0.0204	0.0081	0.0079	0.0222	0.0079	0.0084	0.0084								
24	0.0321	0.0115	0.0099	0.0086	0.0085	0.0204	0.0081	0.0079	0.0222	0.0079	0.0084	0.0084								
32	0.0175	0.0228	0.0094	0.0084	0.0084	0.0224	0.0081	0.0237	0.0084	0.0084	0.0084	0.0084								
48	0.0146	0.0097	0.0094	0.0229	0.0224	0.0081	0.0086	0.0084												
64	0.0127	0.0228	0.0093	0.0085	0.0220	0.0081	0.0233	0.0086												
96	0.0123	0.0097	0.0233	0.0085	0.0091	0.0087														
128	0.0108	0.0089	0.0087	0.0084	0.0084	0.0084	0.0082													
256	0.0406	0.0411	0.0841	0.0409																
384	0.0411	0.0410																		
512	0.0409	0.0404																		
768	0.0411																			
1024	0.0424																			

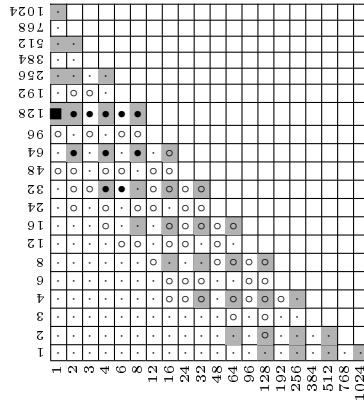


Table149. MB1 Kepler: Increased L1, size 192×192, milliseconds.

1	95.029	47.518	31.862	23.504	16.013	11.884	8.077	5.945	4.105	2.977	2.004	1.425	1.080	(0.888)	(0.917)	1.009	1.208	1.427	1.914	1.840
2	51.375	25.673	17.043	12.825	8.473	6.415	4.283	3.211	2.168	1.424	1.127	(0.882)	(0.916)	(0.914)	1.035	1.209	1.398	1.495	1.901	1.638
3	36.734	18.341	12.047	9.191	6.059	4.590	3.150	2.053	1.571	1.082	1.068	(0.914)	1.035	1.209	1.398	1.495	1.901	1.638		
4	29.452	14.730	9.660	7.371	4.904	3.688	2.330	1.543	1.191	(0.881)	0.976	1.008	1.208	1.424	1.901	1.640				
6	22.284	11.143	7.373	5.577	3.789	2.882	1.737	1.158	1.122	(0.915)	1.084	1.209	1.398	1.425	1.913	1.640				
8	18.736	9.375	6.251	4.689	2.847	1.797	1.316	0.982	1.034	1.007	1.268	1.425	1.913	1.640						
12	15.209	7.607	4.923	3.061	2.016	1.320	1.223	0.984	1.126	1.210	1.470	1.901								
16	13.455	6.739	3.696	2.312	1.530	1.037	1.138	1.078	1.327	1.428	1.957	1.638								
24	11.704	4.443	2.634	1.665	1.413	1.120	1.219	1.288	1.546	1.900										
32	10.822	3.344	2.166	1.318	1.382	1.263	1.433	1.515	2.048	1.640										
48	7.368	2.570	2.197	1.411	1.455	1.468	1.633	2.009												
64	6.250	2.688	2.307	1.498	1.677	1.716	2.276	1.730												
96	6.981	3.168	2.706	1.699	2.160	2.347														
128	10.195	4.697	3.757	2.479	2.940	2.018														
192	23.196	10.465	7.758	5.006																
256	39.254	18.689	12.702	8.054																
384	57.984	25.527																		
512	69.128	34.043																		
768	71.365																			
1024	81.966																			

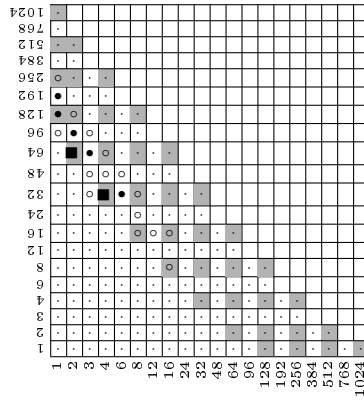


Table150. MB1 Kepler: Increased L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0572	0.0349	0.0315	0.0284	0.0278	0.0364	0.0261	0.0251	0.0249	0.0341	0.0229	0.0336	0.0243	0.0588	0.0580	0.0576	0.0590	0.0565	0.0246	0.0594
2	0.0360	0.0268	0.0283	0.0268	0.0253	0.0251	0.0343	0.0237	0.0239	0.0339	0.0225	0.0236	0.0240	0.0590	0.0574	0.0586	0.0573	0.0596		
3	0.0418	0.0277	0.0267	0.0259	0.0252	0.0246	0.0337	0.0245	0.0334	0.0235	0.0334	0.0236	0.0329	0.0573	0.0573	0.0586	0.0587			
4	0.0304	0.0272	0.0359	0.0349	0.0252	0.0245	0.0242	0.0338	0.0238	0.0238	0.0232	0.0238	0.0348	0.0586	0.0586	0.0578				
6	0.0384	0.0356	0.0355	0.0346	0.0338	0.0244	0.0228	0.0237	0.0240	0.0337	0.0232	0.0238	0.0239	0.0592	0.0581	0.0578				
8	0.0285	0.0265	0.0257	0.0257	0.0250	0.0244	0.0241	0.0332	0.0239	0.0240	0.0588	0.0236	0.0238	0.0587						
12	0.0272	0.0350	0.0251	0.0338	0.0242	0.0246	0.0241	0.0236	0.0239	0.0238	0.0241	0.0241								
16	0.0374	0.0351	0.0252	0.0337	0.0245	0.0240	0.0237	0.0240	0.0232	0.0241	0.0238	0.0284								
24	0.0368	0.0249	0.0250	0.0229	0.0243	0.0236	0.0239	0.0331	0.0241	0.0241										
32	0.0272	0.0251	0.0252	0.0242	0.0242	0.0244	0.0244	0.0337	0.0239	0.0238	0.0239									
48	0.0256	0.0244	0.0237	0.0236	0.0230	0.0240	0.0239	0.0243	0.0238	0.0238	0.0239									
64	0.0246	0.0244	0.0337	0.0242	0.0233	0.0238	0.0240	0.0217												
96	0.0258	0.0244	0.0246	0.0243	0.0242															
128	0.0586	0.0587	0.0604	0.0581	0.0588	0.0584														
192	0.0585	0.0592	0.0588	0.0581	0.0588	0.0576														
256	0.0587	0.0588	0.0588	0.0587	0.0588	0.0588														
384	0.0570	0.0570																		
512	0.0587	0.0588																		
768	0.0555																			
1024	0.0588																			

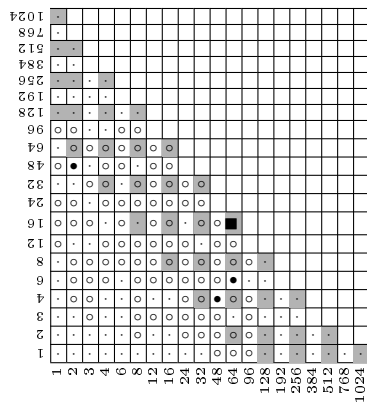


Table151. MB1 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1099	0.0643	0.0497	0.0402	0.0322	0.0184	0.0147	0.0125	0.0109	0.0218	0.0208	0.0203	0.0204	0.0212	0.0203	0.0801	0.0386	0.0812	0.0798	0.0886
2	0.0880	0.0316	0.0233	0.0312	0.0152	0.0130	0.0233	0.0093	0.0222	0.0208	0.0080	0.0276	(0.0077)	0.0181	(0.0078)	0.0605	0.0375	0.0380		
3	0.0540	0.0246	0.0186	0.0156	0.0232	0.0113	0.0101	0.0083	0.0222	0.0079	0.0191	(0.0077)	0.0196	0.0178	0.0082	0.0798				
4	0.0354	0.0211	0.0165	0.0257	0.0232	0.0105	0.0092	0.0084	0.0080	(0.0077)	0.0203	(0.0078)	0.0195	(0.0078)	0.0082	0.0798				
6	0.0404	0.0293	0.0273	0.0123	0.0108	0.0093	0.0087	0.0080	0.0194	(0.0078)	0.0079	(0.0078)	0.0082	(0.0078)						
8	0.0252	0.0279	0.0132	0.0115	0.0215	0.0087	0.0082	0.0194	0.0195	(0.0078)	0.0079	(0.0078)	0.0082	(0.0078)						
12	0.0218	0.0144	0.0121	0.0100	0.0091	0.0200	0.0082	(0.0078)	0.0080	0.0198	0.0082	0.0084	0.0083							
16	0.0320	0.0135	0.0225	0.0093	0.0216	0.0080	0.0081	0.0079	0.0080	(0.0078)	0.0082	0.0083								
24	0.0184	0.0220	0.0094	0.0084	0.0084	0.0081	0.0081	0.0197	0.0220	0.0084	0.0082	0.0083								
32	0.0175	0.0096	0.0093	0.0085	0.0086	0.0083	0.0083	0.0079	0.0084											
48	0.0146	0.0096	0.0093	0.0085	0.0086	0.0083	0.0083	0.0083												
64	0.0127	0.0096	0.0096	0.0086	0.0088	0.0082	0.0082	0.0084												
96	0.0125	0.0096	0.0095	0.0086	0.0091	0.0087														
128	0.0236	0.0090	0.0088	0.0202	0.0086	0.0081														
192	0.0336	0.0100	0.0101	0.0093																
256	0.0379	0.0768		0.0375	0.0778															
384	0.0375	0.0377																		
512	0.0377	0.0778																		
768	0.0378																			
1024	0.0381																			

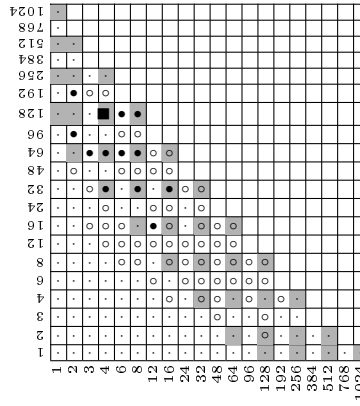


Table152. MB1 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	95.026	47.517	31.934	23.503	16.048	11.901	8.078	5.957	4.104	2.976	2.004	1.421	1.080	0.884	0.917	1.007	1.208	1.428	1.914	1.845	
2	51.373	25.674	16.993	12.824	8.472	6.415	4.285	3.207	2.168	1.421	1.127	0.881*	0.916	1.008	1.210	1.398	1.494	1.907	1.638		
3	36.873	18.340	12.049	9.174	6.061	4.590	3.188	2.053	1.570	1.079	0.970	0.914	1.035	1.210	1.426	1.915	1.897				
4	29.453	14.730	9.659	7.368	4.905	3.693	2.351	1.545	1.180	0.881	0.974	1.009	1.209	1.426	1.915	1.899					
6	22.328	11.146	7.372	5.584	3.789	2.882	1.737	1.158	1.122	0.915	1.084	1.209	1.398	1.898							
8	18.736	9.371	6.251	4.689	2.845	1.797	1.316	0.984	1.035	1.008	1.268	1.425	1.897	1.640							
12	15.209	7.608	4.923	3.661	2.015	1.320	1.224	0.984	1.122	1.209	1.469	1.646									
16	13.473	6.731	3.696	2.810	1.533	1.040	1.130	1.078	1.322	1.426	2.005										
24	11.704	4.447	2.634	1.865	1.414	1.120	1.220	1.289	1.545	1.914											
32	10.837	3.344	2.166	1.818	1.381	1.264	1.433	1.513	2.046	1.638											
48	7.376	2.570	2.198	1.411	1.455	1.469	1.690	2.003													
64	6.247	2.681	2.307	1.498	1.680	1.717	2.277	1.730													
96	6.977	3.169	2.703	1.703	2.163	2.329															
128	10.172	4.672	3.750	2.482	2.937	2.016															
256	39.244	18.742	12.628	8.038																	
384	57.945	25.569																			
512	69.069	34.010																			
768	71.873																				
1024	81.950																				

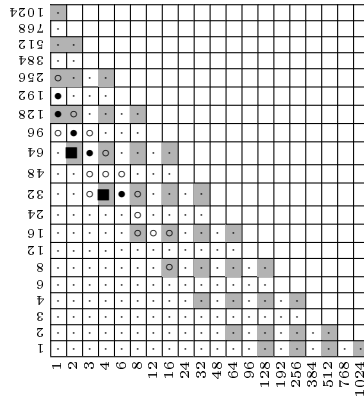


Table153. MB1 Kepler: Without L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.0467	0.0355	0.0302	0.0295	0.0258	0.0269	0.0257	0.0240	0.0244	0.0251	0.0245	0.0241	0.0241	0.0241	0.0577	0.0509	0.0577	0.0586	0.0585	0.0588
2	0.0356	0.0282	0.0281	0.0265	0.0258	0.0252	0.0250	0.0249	0.0249	0.0242	0.0248	0.0241	0.0245	0.0245	0.0589	0.0584	0.0588	0.0586		
3	0.0303	0.0281	0.0456	0.0262	0.0255	0.0242	0.0250	0.0244	0.0238	0.0244	0.0243	(0.0234)	(0.0230)	0.0589	0.0601	0.0588				
4	0.0284	0.0270	0.0259	0.0256	0.0237	0.0236	0.0245	0.0246	0.0244	0.0240	0.0242	(0.0231)	0.0238	0.0580	0.0601	0.0588				
6	0.0278	0.0260	0.0250	0.0250	0.0247	0.0244	0.0241	0.0242	0.0243	0.0243	0.0243	0.0240	0.0240	0.0583						
8	0.0268	0.0244	0.0243	0.0244	0.0235	0.0240	(0.0237)	0.0240	0.0240	(0.0233)	0.0243	0.0245	0.0242	0.0602						
12	0.0258	0.0246	0.0246	0.0240	0.0239	0.0240	0.0238	0.0240	0.0241	0.0237	0.0244	0.0243								
16	0.0256	0.0235	0.0237	0.0240	0.0238	0.0241	(0.0233)	0.0238	(0.0235)	0.0248	0.0243	0.0244								
24	0.0247	0.0235	0.0242	(0.0230)	0.0230	0.0238	0.0243	(0.0233)*	0.0238	0.0241										
32	0.0237	0.0244	0.0243	0.0242	0.0242	0.0239	0.0248	0.0239	(0.0229)	0.0248										
48	0.0247	0.0237	0.0238	0.0237	(0.0236)	0.0237	0.0238	0.0242	0.0242	0.0241										
64	(0.0230)	0.0243	0.0244	0.0242	0.0242	0.0240	0.0242	0.0240												
96	0.0240	0.0238	0.0244	0.0242	0.0242	0.0238	0.0245													
128	0.0584	0.0586	0.0565	0.0592	0.0588	0.0580														
192	0.0591	0.0583	0.0588	0.0587																
256	0.0604	0.0578	0.0586	0.0587																
384	0.0584	0.0593																		
512	0.0590	0.0580																		
768	0.0589																			
1,024	0.0586																			

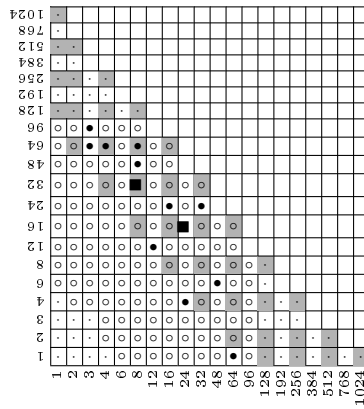


Table154. MB2 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0993	0.0538	0.0380	0.0300	0.0225	0.0183	0.0146	0.0124	0.0107	0.0096	0.0087	0.0082	0.0078	(0.0074)	(0.0076)	0.0372	0.0381	0.0382	0.0385	0.0387
2	0.0539	0.0300	0.0224	0.0184	0.0146	0.0124	0.0108	0.0096	0.0088	0.0082	0.0077	(0.0076)	(0.0075)	(0.0073)	0.0077	0.0380	0.0371	0.0382	0.0385	0.0387
3	0.0380	0.0224	0.0173	0.0147	0.0120	0.0109	0.0095	0.0088	0.0082	0.0078	0.0078	(0.0077)	(0.0076)	(0.0073)*	0.0079	0.0385	0.0371	0.0382	0.0385	0.0387
4	0.0301	0.0183	0.0147	0.0124	0.0108	0.0097	0.0089	0.0082	0.0078	0.0078	(0.0076)	(0.0077)	0.0077	(0.0074)	0.0080	0.0371	0.0371	0.0382	0.0385	0.0387
6	0.0225	0.0146	0.0121	0.0108	0.0095	0.0088	0.0082	0.0078	0.0078	(0.0076)	(0.0077)	0.0077	0.0080	(0.0075)	0.0080	0.0371	0.0371	0.0382	0.0385	0.0387
8	0.0183	0.0125	0.0108	0.0095	0.0088	0.0082	0.0078	0.0078	0.0078	(0.0076)	(0.0077)	0.0077	0.0080	(0.0075)	0.0080	0.0371	0.0371	0.0382	0.0385	0.0387
12	0.0146	0.0107	0.0095	0.0087	0.0082	0.0078	0.0078	0.0078	0.0077	(0.0076)	(0.0077)	0.0077	0.0080	(0.0075)	0.0080	0.0371	0.0371	0.0382	0.0385	0.0387
16	0.0126	0.0096	0.0082	0.0079	0.0079	0.0079	0.0079	0.0079	0.0077	(0.0076)	(0.0077)	0.0077	0.0080	(0.0075)	0.0080	0.0371	0.0371	0.0382	0.0385	0.0387
24	0.0108	0.0083	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0077	(0.0076)	(0.0077)	0.0077	0.0080	(0.0075)	0.0080	0.0371	0.0371	0.0382	0.0385	0.0387
32	0.0096	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0077	(0.0076)	(0.0077)	0.0077	0.0080	(0.0075)	0.0080	0.0371	0.0371	0.0382	0.0385	0.0387
48	0.0087	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0077	(0.0076)	(0.0077)	0.0077	0.0080	(0.0075)	0.0080	0.0371	0.0371	0.0382	0.0385	0.0387
64	0.0082	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	0.0077	(0.0076)	(0.0077)	0.0077	0.0080	(0.0075)	0.0080	0.0371	0.0371	0.0382	0.0385	0.0387
96	0.0078	(0.0077)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	(0.0076)	0.0077	(0.0076)	(0.0077)	0.0077	0.0080	(0.0075)	0.0080	0.0371	0.0371	0.0382	0.0385	0.0387
128	(0.0074)	(0.0074)	(0.0074)	(0.0074)	(0.0074)	(0.0074)	(0.0074)	(0.0074)	0.0077	(0.0076)	(0.0077)	0.0077	0.0080	(0.0075)	0.0080	0.0371	0.0371	0.0382	0.0385	0.0387
192	(0.0076)	0.0077	0.0079	0.0080	0.0080	0.0080	0.0080	0.0080	0.0079	0.0080	0.0080	0.0080	0.0080	0.0080	0.0080	0.0371	0.0371	0.0382	0.0385	0.0387
256	0.0377	0.0380	0.0394	0.0381																
384	0.0375	0.0380	0.0394	0.0381																
512	0.0375	0.0380	0.0394	0.0381																
768	0.0378																			
1024	0.0376																			

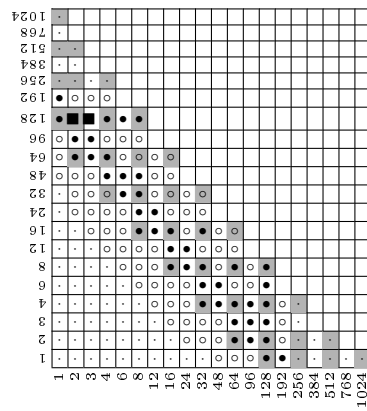


Table155. MB2 Kepler: Normal L1, size 192×192, milliseconds.

1	94.760	48.383	32.116	24.194	16.132	12.100	8.163	6.065	4.130	3.030	2.027	1.472	1.049	0.988	(0.913)	1.025	1.128	1.192	1.703	1.560
2	48.381	24.194	16.176	12.100	8.137	6.054	4.132	3.030	2.027	1.471	1.052	(0.988)	(0.913)	1.025	1.128	1.188	1.704	1.565		
3	32.115	16.132	10.846	8.138	5.506	4.132	2.766	2.027	1.470	1.049	(0.988)	(0.913)	1.025	1.129	1.188	1.704	1.565			
4	24.195	12.101	8.135	6.052	4.137	3.030	2.027	1.472	1.049	(0.988)	(0.914)	1.025	1.129	1.188	1.704	1.565				
6	16.132	8.143	5.521	4.132	2.766	2.029	1.470	1.049	(0.988)	(0.914)	1.025	1.128	1.192	1.703	1.559					
8	12.100	6.054	4.131	3.030	2.027	1.471	1.049	(0.915)	(0.913)	0.992	1.129	1.192	1.703	1.559						
12	8.136	4.132	2.766	2.027	1.471	1.050	(0.988)	(0.913)	0.992	1.128	1.188	1.704	1.556							
16	6.054	3.030	2.027	1.471	1.049	1.044	(0.913)	0.992	1.128	1.188	1.704	1.556								
24	4.131	2.027	1.471	1.049	1.044	(0.913)	0.992	1.128	1.188	1.704	1.556									
32	3.027	1.471	1.049	(0.988)	(0.913)	0.992	1.128	1.188	1.704	1.556										
48	2.027	1.050	1.044	(0.913)	0.992	1.128	1.188	1.703	1.557											
64	1.471	(0.988)	(0.913)	0.993	1.129	1.267	1.705	1.557												
96	1.052	(0.913)	0.993	1.129	1.267	1.703	1.560													
128	(0.988)	1.025	1.128	1.194	1.703	1.560														
192	(0.913)	1.128	1.267	1.704	1.554															
256	1.129	1.189	1.704	1.554																
384	1.129	1.705																		
512	1.189	1.567																		
768	1.704																			
1024	1.565																			

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Table156. MB2 Kepler: Normal L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0436	0.0321	0.0282	0.0260	0.0245	0.0233	0.0225	0.0215	0.0211	0.0204	0.0205	0.0204	0.0205	0.0204	0.0584	0.0567	0.0576	0.0560	0.0580	0.0572
2	0.0320	0.0264	0.0243	0.0238	0.0233	0.0220	0.0212	0.0212	0.0207	0.0204	0.0212	0.0207	0.0206	0.0579	0.0567	0.0564	0.0574	0.0567		
3	0.0282	0.0242	0.0230	0.0226	0.0213	0.0216	0.0216	0.0206	0.0208	0.0203	0.0205	0.0203	0.0204	0.0201	0.0569	0.0570	0.0574	0.0567		
4	0.0260	0.0233	0.0223	0.0221	0.0213	0.0213	0.0213	0.0208	0.0207	0.0206	0.0205	0.0207	0.0204	0.0204	0.0574	0.0570	0.0567			
6	0.0247	0.0224	0.0215	0.0216	0.0211	0.0205	0.0205	0.0204	0.0207	0.0205	0.0204	0.0207	0.0202	0.0576						
8	0.0230	0.0219	0.0217	0.0207	0.0206	0.0207	0.0205	0.0205	0.0205	0.0204	0.0204	0.0207	0.0202	0.0568						
12	0.0223	0.0212	0.0211	0.0209	0.0204	0.0202	0.0204	0.0210	0.0200	0.0206	0.0208	0.0208								
16	0.0218	0.0209	0.0208	0.0206	0.0207	0.0208	0.0207	0.0206	0.0206	0.0206	0.0206	0.0206								
24	0.0216	0.0215	0.0205	0.0208	0.0202	0.0207	0.0204	0.0204	0.0201	0.0201	0.0201	0.0201								
32	0.0211	0.0206	0.0203	0.0208	0.0204	0.0202	0.0206	0.0206	0.0204	0.0204	0.0204	0.0204								
48	0.0211	0.0207	0.0204	0.0207	0.0201	0.0201	0.0203	0.0206	0.0204	0.0204	0.0204	0.0204								
64	0.0202	0.0202	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203	0.0203								
96	0.0204	0.0205	0.0210	0.0204	0.0203	0.0203	0.0205	0.0205	0.0201	0.0201	0.0201	0.0201								
128	0.0572	0.0564	0.0567	0.0564	0.0570	0.0582														
192	0.0570	0.0568	0.0567	0.0568	0.0570	0.0582														
256	0.0566	0.0567	0.0565	0.0564																
384	0.0564	0.0563																		
512	0.0559	0.0579																		
768	0.0566																			
1024	0.0568																			

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
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1024

Table157. MB2 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0993	0.0537	0.0380	0.0302	0.0225	0.0183	0.0147	0.0124	0.0108	0.0096	0.0088	0.0082	0.0078	(0.0074)	(0.0077)	0.0393	0.0413	0.0404	0.0407	0.0411
2	0.0537	0.0300	0.0225	0.0184	0.0147	0.0125	0.0108	0.0094	0.0088	0.0082	0.0078	(0.0077)	(0.0076)	(0.0074)	0.0077	0.0080	0.0405	0.0405		
3	0.0380	0.0224	0.0172	0.0147	0.0122	0.0108	0.0095	0.0088	0.0083	0.0078	0.0078	(0.0076)	(0.0076)	(0.0074)	0.0080	0.0402				
4	0.0301	0.0184	0.0147	0.0125	0.0109	0.0096	0.0088	0.0082	0.0078	(0.0076)	(0.0076)	(0.0076)	0.0077	(0.0075)	0.0079	0.0410				
6	0.0225	0.0147	0.0124	0.0109	0.0095	0.0088	0.0082	0.0078	0.0078	(0.0077)	(0.0077)	(0.0077)	0.0079	(0.0075)						
8	0.0182	0.0124	0.0108	0.0096	0.0088	0.0082	0.0078	(0.0076)	(0.0076)	(0.0077)	(0.0077)	0.0079	0.0080	(0.0074)						
12	0.0146	0.0108	0.0095	0.0088	0.0082	0.0078	(0.0076)	(0.0076)	(0.0077)	(0.0077)	0.0079	0.0080								
16	0.0125	0.0097	0.0087	0.0082	0.0078	0.0078	(0.0076)	(0.0077)	(0.0077)	(0.0077)	0.0079	0.0080								
24	0.0108	0.0082	0.0083	0.0078	0.0078	0.0078	(0.0076)	(0.0077)	(0.0077)	(0.0077)	0.0079	0.0080								
32	0.0096	0.0082	0.0079	(0.0075)	(0.0076)	(0.0076)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	0.0079	0.0080								
48	0.0082	0.0078	0.0078	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	0.0079	0.0080								
64	0.0082	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	0.0079	0.0080								
96	0.0078	(0.0074)	(0.0074)	(0.0074)	(0.0074)	(0.0074)	(0.0074)	(0.0074)	(0.0074)	(0.0074)	0.0079	0.0080								
128	(0.0074)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	0.0079	0.0080								
192	(0.0077)	0.0077	0.0079	0.0080	0.0411															
256	0.0412	0.0394																		
384	0.0404	0.0407																		
512	0.0409	0.0406																		
768	0.0403																			
1024	0.0404																			

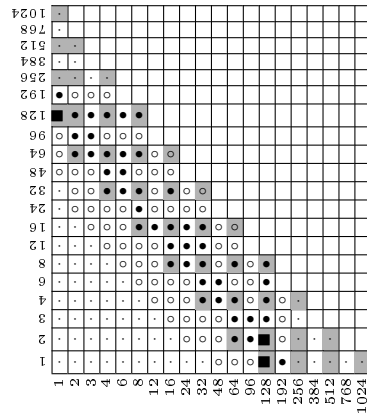


Table158. MB2 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	95.013	48.380	32.114	24.194	16.134	12.127	8.137	6.054	4.134	3.030	2.027	1.471	1.049	(0.988)	(0.914)	1.025	1.128	1.190	1.704	1.557	
2	48.380	24.194	16.132	12.101	8.138	6.066	4.131	3.030	2.032	1.472	1.044	(0.988)	(0.913)	1.025	1.128	1.189	1.705	1.562			
3	32.118	16.133	10.881	8.158	5.502	4.146	2.766	2.027	1.475	1.052	(0.988)	(0.914)	0.924	1.128	1.192	1.703					
4	24.195	12.101	8.136	6.053	4.130	3.033	2.027	1.475	1.044	(0.913)	(0.913)	1.024	1.128	1.192	1.704	1.557					
6	16.133	8.139	5.501	4.130	2.766	2.032	1.470	1.049	(0.988)	(0.913)	(0.913)	1.024	1.128	1.192	1.703						
8	12.101	6.053	4.129	3.030	2.027	1.472	1.044	(0.988)	(0.913)	(0.913)	1.024	1.128	1.192	1.703	1.556						
12	8.139	4.133	2.766	2.027	1.471	1.050	1.043	(0.988)	(0.913)	0.992	1.128	1.186	1.703	1.562							
16	6.066	3.039	2.027	1.471	1.049	1.043	(0.988)	(0.913)	0.992	1.128	1.186	1.703	1.562								
24	3.030	1.472	1.044	(0.988)	(0.913)	0.992	1.128	1.186	1.703	1.560											
32	2.027	1.043	1.044	(0.914)	0.992	1.128	1.191	1.703	1.559												
48	1.471	(0.988)	(0.913)	1.025	1.128	1.267	1.703	1.559													
96	1.049	(0.913)	0.992	1.128	1.267	1.703	1.560														
128	(0.988)	1.025	1.128	1.195	1.705	1.557															
192	(0.914)	1.128	1.267	1.703																	
256	1.128	1.190	1.705	1.557																	
384	1.128	1.703																			
512	1.184	1.557																			
768	1.704																				
1024	1.559																				

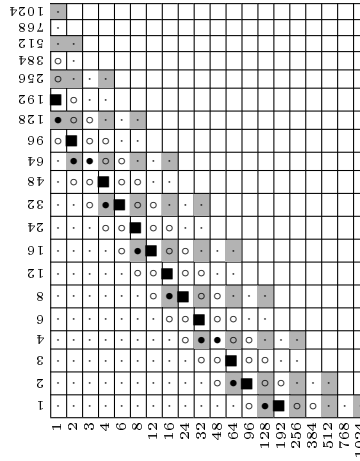


Table159. MB2 Kepler: Increased L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0460	0.0354	0.0316	0.0291	0.0268	0.0266	0.0239	0.0249	0.0244	0.0244	0.0235	0.0239	0.0239	0.0239	0.0586	0.0588	0.0584	0.0576	0.0593	0.0590
2	0.0352	0.0279	0.0270	0.0264	0.0252	0.0247	0.0244	0.0244	0.0244	0.0243	0.0239	0.0236	0.0236	0.0236	0.0590	0.0581	0.0581	0.0592	0.0593	
3	0.0312	0.0268	0.0262	0.0259	0.0256	0.0244	0.0247	0.0243	0.0238	0.0240	0.0236	0.0234	0.0234	0.0234	0.0583	0.0586				
4	0.0278	0.0267	0.0246	0.0251	0.0245	0.0230	0.0243	0.0237	0.0238	0.0234	0.0234	0.0234	0.0234	0.0234	0.0583	0.0589				
6	0.0273	0.0266	0.0247	0.0244	0.0244	0.0225	0.0240	0.0238	0.0242	0.0240	0.0233	0.0233	0.0233	0.0237	0.0587					
8	0.0263	0.0260	0.0246	0.0244	0.0241	0.0221	0.0237	0.0237	0.0237	0.0235	0.0234	0.0234	0.0234	0.0237	0.0587					
12	0.0237	0.0231	0.0226	0.0224	0.0241	0.0221	0.0231	0.0231	0.0225	0.0236	0.0236	0.0236	0.0236	0.0236	0.0588					
16	0.0236	0.0247	0.0242	0.0239	0.0242	0.0243	0.0239	0.0236	0.0240	0.0240	0.0237	0.0237	0.0237	0.0237	0.0588					
24	0.0240	0.0219	0.0243	0.0239	0.0243	0.0255	0.0240	0.0238	0.0242	0.0238	0.0238	0.0238	0.0238	0.0238	0.0588					
32	0.0247	0.0239	0.0221	0.0244	0.0256	0.0235	0.0237	0.0238	0.0240	0.0238	0.0238	0.0238	0.0238	0.0238	0.0588					
48	0.0224	0.0224	0.0239	0.0239	0.0239	0.0239	0.0239	0.0239	0.0239	0.0239	0.0239	0.0239	0.0239	0.0239	0.0588					
64	0.0235	0.0235	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0232	0.0588					
96	0.0233	0.0229	0.0237	0.0237	0.0237	0.0237	0.0237	0.0237	0.0237	0.0237	0.0237	0.0237	0.0237	0.0237	0.0588					
128	0.0595	0.0588	0.0588	0.0573	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588					
192	0.0571	0.0587	0.0584	0.0590	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588					
256	0.0588	0.0587	0.0571	0.0589	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588					
384	0.0567	0.0572	0.0571	0.0589	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588					
512	0.0582	0.0587																		
768	0.0594																			
1024	0.0588																			

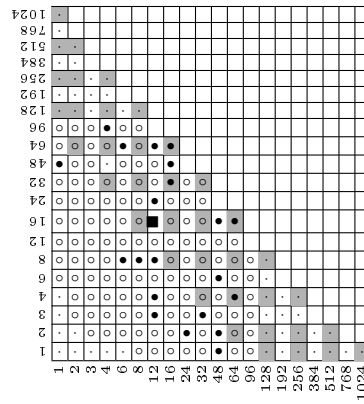


Table160. MB2 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0992	0.0537	0.0380	0.0299	0.0224	0.0182	0.0146	0.0125	0.0108	0.0096	0.0088	0.0082	0.0078	(0.0074)	(0.0076)	0.0376	0.0380	0.0378	0.0372	0.0373
2	0.0537	0.0302	0.0224	0.0183	0.0148	0.0124	0.0109	0.0096	0.0088	0.0082	0.0078	(0.0076)	(0.0077)	(0.0074)	(0.0076)	0.0079	0.0382	0.0374		
3	0.0381	0.0224	0.0172	0.0147	0.0121	0.0108	0.0095	0.0087	0.0082	0.0078	0.0078	(0.0077)	0.0077	(0.0074)	0.0079	0.0375				
4	0.0301	0.0183	0.0147	0.0125	0.0108	0.0096	0.0088	0.0082	0.0078	(0.0076)	(0.0077)	0.0077	0.0077	(0.0074)	0.0080	0.0381				
6	0.0226	0.0147	0.0120	0.0108	0.0095	0.0087	0.0082	0.0078	0.0078	(0.0076)	(0.0077)	0.0077	0.0077	(0.0074)						
8	0.0183	0.0125	0.0108	0.0096	0.0088	0.0082	0.0078	(0.0076)	(0.0077)	(0.0077)	0.0077	0.0077	0.0077	(0.0074)						
12	0.0147	0.0108	0.0095	0.0087	0.0082	0.0078	(0.0076)	(0.0077)	(0.0077)	0.0077	0.0077	0.0077	0.0077	(0.0074)						
16	0.0125	0.0096	0.0088	0.0082	0.0078	(0.0076)	(0.0077)	0.0077	0.0077	0.0077	0.0077	0.0077	0.0077	(0.0074)						
24	0.0108	0.0088	0.0082	0.0078	0.0078	(0.0076)	(0.0077)	0.0077	0.0077	0.0077	0.0077	0.0077	0.0077	(0.0074)						
32	0.0097	0.0083	0.0078	0.0078	(0.0076)	(0.0077)	(0.0077)	0.0077	0.0077	0.0077	0.0077	0.0077	0.0077	(0.0074)						
48	0.0088	0.0078	0.0078	(0.0076)	(0.0077)	(0.0077)	(0.0077)	0.0077	0.0077	0.0077	0.0077	0.0077	0.0077	(0.0074)						
64	0.0082	(0.0076)	(0.0076)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	0.0077	0.0077	0.0077	0.0077	0.0077	0.0077	(0.0074)						
96	0.0078	(0.0076)	(0.0076)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	0.0077	0.0077	0.0077	0.0077	0.0077	0.0077	(0.0074)						
128	(0.0076)	(0.0076)	(0.0076)	(0.0077)	(0.0077)	(0.0077)	(0.0077)	0.0077	0.0077	0.0077	0.0077	0.0077	0.0077	(0.0074)						
192		0.0077	0.0080	0.0392																
256		0.0373	0.0374																	
384		0.0396	0.0376																	
512		0.0381	0.0375																	
768		0.0387																		
1024	0.0373																			

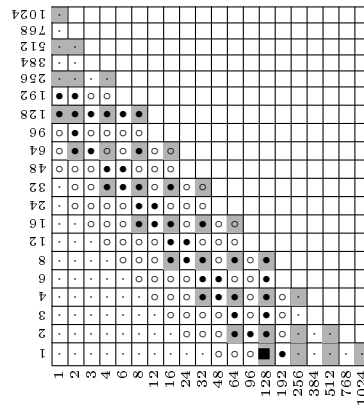


Table161. MB2 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	94.761	48.383	32.117	24.194	16.133	12.127	8.160	6.053	4.145	3.030	2.027	1.472	1.050	(0.988)	(0.914)	1.025	1.129	1.189	1.703	1.564
2	48.382	24.235	16.181	12.100	8.135	6.054	4.146	3.030	2.029	1.471	1.049	(0.988)	(0.913)	1.024	1.128	1.190	1.703	1.562		
3	32.118	16.133	10.879	8.137	5.504	4.133	2.766	2.029	1.470	1.050	1.044	(0.914)	(0.913)	1.024	1.128	1.267	1.704			
4	24.195	12.102	8.136	6.053	4.132	3.030	2.027	1.475	1.046	(0.988)	(0.913)	(0.914)	1.024	1.128	1.197	1.704	1.559			
6	16.132	8.138	5.521	4.134	2.774	2.027	1.473	1.052	1.046	(0.913)	(0.913)	1.025	1.128	1.266	1.703					
8	12.100	6.053	4.128	3.030	2.027	1.471	1.049	(0.988)	(0.913)	1.025	1.128	1.189	1.703	1.557						
12	8.158	4.132	2.766	2.027	1.475	1.049	1.044	(0.913)	(0.914)	1.025	1.128	1.190	1.704	1.564						
16	6.054	3.030	2.027	1.470	1.049	1.044	(0.913)	(0.913)	1.025	1.128	1.190	1.704	1.564							
24	4.131	2.027	1.471	1.049	(0.988)	(0.913)	1.025	1.128	1.189	1.703	1.560									
32	3.030	1.471	1.049	(0.988)	(0.913)	1.025	1.128	1.189	1.703	1.560										
48	2.032	1.049	1.044	(0.914)	(0.913)	1.024	1.128	1.191	1.703	1.560										
64	1.471	(0.914)	(0.913)	1.024	1.128	1.191	1.703	1.560												
96	1.052	(0.914)	0.994	1.128	1.267	1.703	1.565													
128	(0.989)	1.024	1.129	1.196	1.703	1.565														
192	(0.913)	1.128	1.266	1.703																
256	1.024	1.196	1.703	1.566																
384	1.128	1.704																		
512	1.196	1.562																		
768	1.703																			
1024	1.564																			

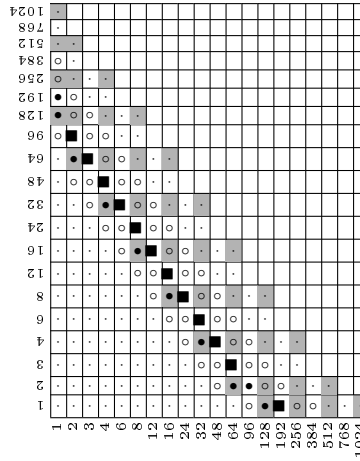


Table162. MB2 Kepler: Without L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	7.4259	3.7193	2.4924	1.8767	1.2626	0.9548	0.6480	0.5385	0.3374	0.3275	0.2379	0.1272	0.1145	0.0584	0.0577	0.0593	0.0578	0.0583	0.0577	0.0585	0.0583
2	3.7274	1.8749	1.2620	0.9575	0.6487	0.5386	0.3390	0.3316	0.2377	0.2271	0.1557	0.1286	0.1159	0.0590	0.0591	0.0601	0.0585	0.0583	0.0577		
3	2.4906	1.2635	0.8522	0.6457	0.4423	0.3359	0.2762	0.2372	0.1532	0.1643	0.1275	0.1330	0.0583	0.0583	0.0588	0.0581					
4	1.8804	0.9574	0.6460	0.5376	0.3376	0.3277	0.2394	0.2287	0.1537	0.1661	0.1275	0.1313	0.0583	0.0583	0.0588	0.0581					
6	1.2809	0.6483	0.4484	0.3367	0.2377	0.2378	0.2149	0.1559	0.1639	0.1549	0.1279	0.1308	0.0583	0.0583	0.0588	0.0580					
8	0.9584	0.5384	0.3352	0.3261	0.2376	0.2283	0.1559	0.1564	0.1564	0.1528	0.1291	0.1329	0.0596								
12	0.6479	0.3366	0.2729	0.2379	0.2147	0.1549	0.1841	0.1542	0.1512	0.1510	0.1502	0.1291									
16	0.5353	0.3295	0.2363	0.2288	0.1562	0.1544	0.1554	0.1620	0.1510	0.1489	0.1788	0.1335									
24	0.3388	0.2380	0.2145	0.1565	0.1628	0.1545	0.1532	0.1516	0.1482	0.1772											
32	0.3259	0.2289	0.1640	0.1566	0.1668	0.1559	0.1639	0.1515	0.1892	0.1780	0.2245										
48	0.2378	0.1565	0.1273	0.1566	0.1518	0.1496	0.1485	0.1783													
64	0.1565	0.1273	0.1266	0.1566	0.1273	0.1289	0.1426	0.1292	0.1330												
96	0.1557	0.1553	0.1519	0.1514	0.1503	0.1770															
128	0.0595	0.0584	0.0586	0.0586	0.0584	0.0608															
192	0.0576	0.0583	0.0600	0.0571																	
256	0.0580	0.0590	0.0582	0.0587																	
384	0.0584	0.0584																			
512	0.0571	0.0596																			
768	0.0588																				
1024	0.0576																				

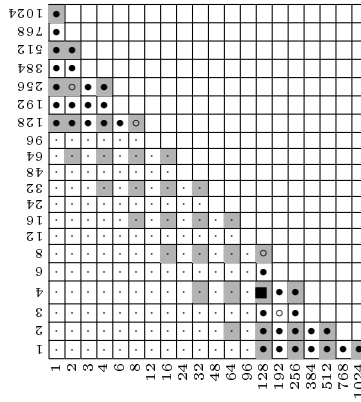


Table163. MB3 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	29.4962	14.7060	9.8440	7.3748	4.9268	3.7022	2.4819	1.8619	1.2488	0.9380	0.7272	0.5578	0.4862	0.3835	0.2945	0.0369	0.0394	0.0372	0.0389	0.0374
2	14.7130	7.3781	4.9291	3.7137	2.4772	1.8628	1.2469	0.9394	0.7276	0.5577	0.4858	0.4091	0.4804	0.3849	0.4752	0.0369	0.0383	0.0384		
3	9.8357	4.9382	3.2974	2.4818	1.6583	1.2471	0.9553	0.7277	0.6264	0.4856	0.5361	0.4940	0.4723	0.3314	0.4789	0.0378				
4	7.3806	3.7033	2.4758	1.8622	1.2469	0.9379	0.7264	0.5584	0.4858	0.4818	0.4813	0.4971	0.4748	0.3818	0.4644	0.0404				
6	4.9373	2.4710	1.6574	1.2450	0.9558	0.7278	0.6268	0.4849	0.5326	0.4937	0.4718	0.4756	0.4785	0.3126						
8	3.7054	1.8617	1.2476	0.9566	0.7258	0.6261	0.4856	0.5364	0.4931	0.4726	0.4758	0.4786	0.4645							
12	2.4829	1.2510	0.9566	0.7266	0.5580	0.4856	0.4916	0.4936	0.4727	0.4749	0.4757	0.4644								
16	1.8667	0.9398	0.7266	0.6265	0.4853	0.4859	0.4936	0.4727	0.4749	0.4757	0.4644									
24	1.2471	0.7268	0.6265	0.4851	0.4917	0.4805	0.4927	0.4745	0.4777	0.4648	0.5076									
32	0.9399	0.5572	0.4851	0.4933	0.4939	0.4725	0.4747	0.4786	0.4647											
48	0.7268	0.4853	0.4934	0.4934	0.4937	0.4753	0.4778	0.4645	0.5144											
64	0.5587	0.4924	0.4720	0.4749	0.4787	0.4634														
96	0.4858	0.4937	0.4720	0.4749	0.4787	0.4634														
128	0.3830	0.3847	0.3314	0.3816	0.3127	0.3180														
192	0.4939	0.4748	0.4787	0.4644																
256	0.0376	0.0372	0.0370	0.0380																
384	0.0373	0.0369																		
512	0.0364	0.0376																		
768	0.0387																			
1024	0.0390																			

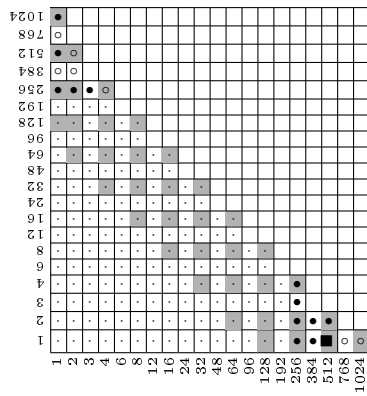


Table164. MB3 Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	251.659	123.283	83.726	61.638	41.862	30.825	20.931	15.417	10.458	7.712	5.837	4.378	3.699	3.684	3.682	3.682	3.682	3.682	3.682	3.682	3.682
2	123.411	61.640	41.862	30.831	20.924	15.411	10.465	7.711	5.837	4.378	3.698	3.681*	3.681	3.681	3.681	3.682	3.682	3.682	3.682	3.682	3.682
3	83.721	41.861	27.908	20.932	13.950	10.464	7.783	5.837	4.391	3.701	4.091	3.681	3.682	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696
4	61.764	30.829	20.933	13.942	10.464	7.710	5.839	4.383	3.698	3.682	3.682	3.681	3.682	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696
6	41.981	20.933	13.942	10.458	7.785	5.837	4.935	3.698	4.090	3.682	3.682	3.681	3.682	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696
8	30.930	15.422	10.465	7.721	5.839	4.380	3.705	3.680	4.090	3.682	3.682	3.681	3.682	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696
12	21.030	10.474	7.788	5.839	4.937	3.704	4.089	3.682	4.090	3.682	3.682	3.681	3.682	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696
16	15.487	7.719	5.841	4.385	3.703	3.681	3.680	3.682	3.682	3.682	3.682	3.681	3.682	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696
24	10.508	5.844	4.935	3.701	4.090	3.681	3.680	3.682	3.682	3.682	3.682	3.681	3.682	3.696	3.696	3.696	3.696	3.696	3.696	3.696	3.696
32	7.741	4.382	3.702	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684
48	5.846	3.702	4.089	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681
64	4.384	3.681	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683
96	3.702	3.683	3.682	3.682	3.682	3.682	3.682	3.682	3.682	3.682	3.682	3.682	3.682	3.682	3.682	3.682	3.682	3.682	3.682	3.682	3.682
128	3.680	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683	3.683
192	3.682	3.683	3.695	3.684	3.697	3.750	3.695	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684
256	3.681	3.684	3.748	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684	3.684
384	3.696	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818	3.818
512	3.682	3.779																			
768	3.815																				
1024	3.780																				

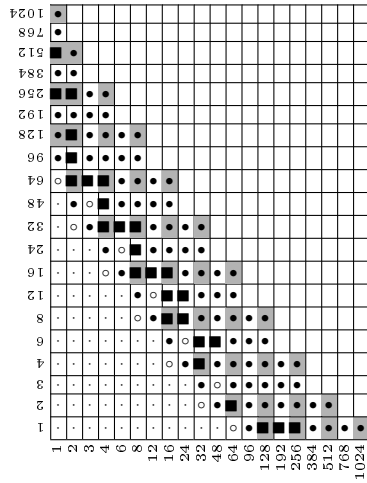


Table165. MB3 Kepler: Normal L1, size 18432×18432, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	7.4194	3.7204	2.4914	1.8751	1.2612	0.9531	0.6442	0.5363	0.3332	0.3238	0.2348	0.1242	0.1527	0.0566	0.0573	0.0583	0.0556*	0.0581	0.0570	0.0562
2	3.7249	1.8786	1.2594	0.9532	0.6440	0.5349	0.3335	0.3273	0.2352	0.2248	0.1521	0.1256	0.1540	0.0570	0.0560	0.0558	0.0564	0.0581		
3	2.4905	1.2580	0.8484	0.6444	0.4356	0.3316	0.2692	0.2342	0.2120	0.1529	0.1598	0.1242	0.1493	0.0567	0.0573	0.0567				
4	1.8736	0.9516	0.6444	0.5350	0.3343	0.3240	0.2345	0.2249	0.1524	0.1524	0.1518	0.1259	0.1463	0.0566	0.0571	0.0566				
6	1.2628	0.6448	0.4360	0.3332	0.2719	0.2353	0.2118	0.1521	0.1528	0.1524	0.1492	0.1253	0.1462	0.0566	0.0571	0.0566				
8	0.9518	0.5346	0.3335	0.3239	0.2349	0.2251	0.1527	0.1526	0.1522	0.1497	0.1482	0.1480	0.1388	0.0580	0.0573	0.0580				
12	0.6442	0.3339	0.2691	0.2355	0.2112	0.1527	0.1528	0.1519	0.1497	0.1482	0.1466	0.1252								
16	0.5346	0.3242	0.2340	0.2248	0.1524	0.1528	0.1519	0.1588	0.1479	0.1486	0.1748	0.1298								
24	0.3336	0.2340	0.2112	0.1515	0.1596	0.1524	0.1484	0.1476	0.1473	0.1749										
32	0.3243	0.2260	0.1537	0.1508	0.1522	0.1588	0.1476	0.1862	0.1743	0.2212										
48	0.2343	0.1530	0.1603	0.1518	0.1492	0.1476	0.1467	0.1745												
64	0.1238	0.1239	0.1242	0.1252	0.1253	0.1386	0.1248	0.1294												
96	0.1526	0.1518	0.1495	0.1477	0.1467	0.1746														
128	0.0570	0.0575	0.0568	0.0570	0.0571	0.0571	0.0576													
192	0.0575	0.0572	0.0584	0.0568																
256	0.0563	0.0572	0.0561	0.0574																
384	0.0562	0.0568																		
512	0.0571	0.0566																		
768	0.0570																			
1024	0.0585																			

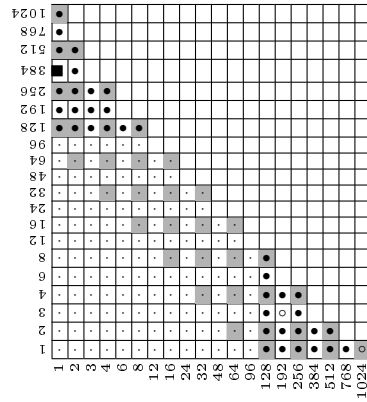


Table166. MB3 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	29.5005	14.7213	9.8404	7.3788	4.9285	3.6906	2.4753	1.8506	1.2474	0.9397	0.7260	0.5588	0.4852	0.3517	0.4935	0.0394	0.0410	0.0412	0.0399	0.0410	
2	14.7086	7.3984	4.9244	3.7012	2.4783	1.8652	1.2457	0.9306	0.7261	0.5583	0.4857	0.4900	0.4945	0.3547	0.4748	0.0409					
3	9.8460	4.9261	3.2962	2.4700	1.6550	1.2513	0.9564	0.7274	0.6262	0.4861	0.3362	0.4937	0.4921	0.3315	0.4787						
4	7.3864	3.7040	2.4729	1.8596	1.2450	0.9383	0.7274	0.5584	0.4855	0.4928	0.3935	0.4975	0.4740	0.3816	0.4646						
6	4.9353	2.4763	1.6572	1.2488	0.9505	0.7259	0.6268	0.4858	0.5366	0.4803	0.4726	0.4756	0.4756	0.3127							
8	3.7040	1.8632	1.2457	0.9306	0.7272	0.5584	0.4857	0.4901	0.4933	0.4979	0.4754	0.4754	0.4644	0.3162							
12	1.8625	0.9306	0.7270	0.5587	0.6268	0.4854	0.4919	0.4932	0.4726	0.4751	0.4751	0.4644	0.5095								
16	1.2516	0.7270	0.6267	0.4856	0.4854	0.4934	0.4934	0.4722	0.4749	0.4788	0.4648										
24	0.9307	0.5581	0.4858	0.4927	0.4936	0.4978	0.4749	0.4776													
32	0.7257	0.3858	0.5360	0.4942	0.4723	0.4754	0.4793	0.4645													
48	0.5584	0.4927	0.4938	0.4979	0.4749	0.4775	0.4644	0.5082													
96	0.4854	0.4936	0.4711	0.4746	0.4789	0.4644															
128	0.3816	0.3848	0.3322	0.3814	0.3128	0.3158															
192	0.4943	0.4748	0.4786	0.4644																	
256	0.0421	0.0405	0.0409	0.0409																	
384	0.0407	0.0409																			
512	0.0413	0.0412																			
768	0.0420																				
1024	0.0414																				

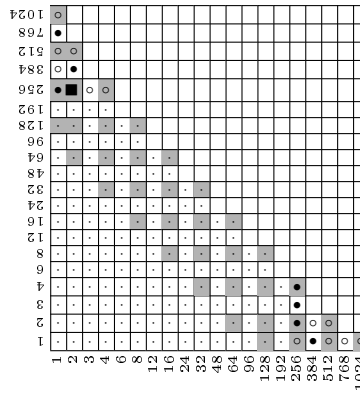


Table167. MB3 Kepler: Increased L1, size 192×192, milliseconds.

1	251.725	123.280	83.727	61.650	41.864	30.829	20.932	15.415	10.464	7.710	5.839	4.380	3.280	2.566	1.928	1.424
2	123.474	61.630	41.862	30.822	20.932	15.415	10.464	7.711	5.843	4.380	3.292	2.580	1.980	1.480	1.120	0.840
3	83.925	41.865	27.910	20.925	13.952	10.467	7.855	5.839	4.333	3.704	4.089	3.681	3.681	3.681	3.681	3.681
4	61.874	30.808	20.932	13.416	10.467	7.704	5.843	4.380	3.701	3.650*	3.681	3.681	3.681	3.681	3.681	3.681
6	41.997	20.937	13.954	10.469	7.787	5.838	4.335	3.704	4.090	3.681	3.683	3.683	3.683	3.683	3.683	3.683
8	30.984	15.427	10.473	7.716	5.843	4.385	3.703	3.681	3.681	3.681	3.683	3.683	3.683	3.683	3.683	3.683
12	21.075	10.475	7.700	5.841	4.384	3.701	4.088	3.681	3.681	3.681	3.683	3.683	3.683	3.683	3.683	3.683
16	15.529	7.720	5.844	4.382	3.702	4.090	3.680	3.681	3.681	3.681	3.683	3.683	3.683	3.683	3.683	3.683
24	10.546	5.845	4.384	4.382	3.702	4.090	3.681	3.681	3.681	3.681	3.683	3.683	3.683	3.683	3.683	3.683
32	7.749	4.383	3.703	3.682	3.682	3.682	3.681	3.681	3.681	3.681	3.683	3.683	3.683	3.683	3.683	3.683
48	5.835	3.704	3.683	3.682	3.682	3.682	3.681	3.681	3.681	3.681	3.683	3.683	3.683	3.683	3.683	3.683
64	4.383	3.682	3.684	3.682	3.682	3.682	3.681	3.681	3.681	3.681	3.683	3.683	3.683	3.683	3.683	3.683
96	3.704	3.682	3.684	3.700	3.700	3.700	3.681	3.681	3.681	3.681	3.683	3.683	3.683	3.683	3.683	3.683
128	3.684	3.682	3.697	3.684	3.684	3.684	3.681	3.681	3.681	3.681	3.683	3.683	3.683	3.683	3.683	3.683
256	3.683	3.697	3.750	3.684	3.684	3.684	3.681	3.681	3.681	3.681	3.683	3.683	3.683	3.683	3.683	3.683
384	3.698	3.683	3.683	3.683	3.683	3.683	3.681	3.681	3.681	3.681	3.683	3.683	3.683	3.683	3.683	3.683
512	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.683	3.683	3.683	3.683	3.683	3.683
768	3.818	3.779														
1024	3.779															

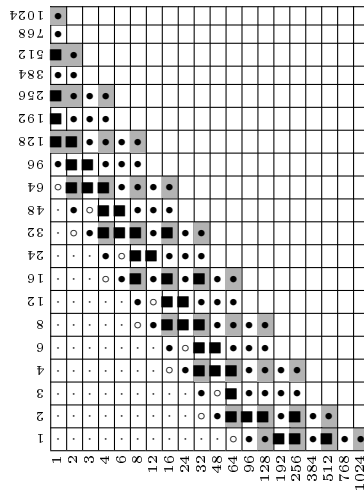


Table168. MB3 Kepler: Increased L1, size 18432×18432, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	7.4152	3.7255	2.5021	1.8766	1.2628	0.9551	0.6461	0.5366	0.3372	0.3270	0.2372	0.1257	0.1548								
2	3.7206	1.8791	1.2663	0.9548	0.6466	0.5343	0.3371	0.3282	0.2374	0.2283	0.1546	0.1278	0.1557								
3	2.4918	1.2604	0.8521	0.6461	0.4399	0.3343	0.2379	0.2356	0.2141	0.1540	0.1631	0.1279	0.1525								
4	1.8789	0.9585	0.6477	0.5381	0.3368	0.3267	0.2372	0.2282	0.1555	0.1561	0.1535	0.1283	0.1493								
6	1.2638	0.6481	0.4387	0.3370	0.2746	0.2374	0.2140	0.1557	0.1631	0.1565	0.1519	0.1270	0.1484								
8	0.9523	0.5377	0.3349	0.3270	0.2371	0.2277	0.1553	0.1559	0.1520	0.1621	0.1496	0.1409	0.1757								
12	0.6470	0.3371	0.2765	0.2358	0.2143	0.1545	0.1635	0.1532	0.1520	0.1510	0.1497	0.1287									
16	0.5380	0.3268	0.2356	0.2282	0.1559	0.1559	0.1555	0.1610	0.1496	0.1898	0.1778	0.1326									
24	0.3346	0.2374	0.2148	0.1555	0.1626	0.1544	0.1529	0.1492	0.1494	0.1770											
32	0.3293	0.2282	0.1552	0.1558	0.1526	0.1621	0.1507	0.1896	0.1764	0.2226											
48	0.2357	0.1538	0.1636	0.1552	0.1270	0.1510	0.1496	0.1764													
64	0.1573	0.1269	0.1258	0.1284	0.1270	0.1423	0.1283	0.1327													
96	0.1553	0.1564	0.1524	0.1510	0.1485	0.1774															
128	(0.0573)	(0.0686)	(0.0577)	(0.0590)	(0.0590)	(0.0593)															
192	(0.0586)	(0.0592)	(0.0577)	(0.0585)																	
256	(0.0590)	(0.0596)	(0.0591)	(0.0594)																	
384	(0.0591)	(0.0592)																			
512	(0.0575)	(0.0572)																			
768	(0.0592)																				
1024	(0.0592)																				

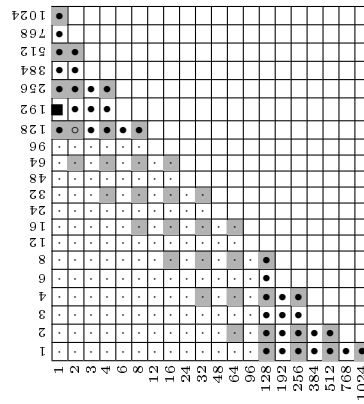


Table169. MB3 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	29.4929	14.7100	9.8454	7.3815	4.9418	3.7062	2.4797	1.8581	1.2489	0.9398	0.7264	0.5580	0.4855	0.3583	0.4944	0.4944	0.0385	0.0385	0.0385	0.0385	0.0385
2	14.7073	7.3815	4.9418	3.7178	2.4727	1.8582	1.2475	0.9418	0.7259	0.5586	0.4859	0.4921	0.4943	0.3549	0.4753	0.4753	0.0380	0.0381	0.0381	0.0381	0.0381
3	9.8448	4.9411	3.2809	2.4760	1.6628	1.2465	0.9560	0.7262	0.6268	0.4848	0.3354	0.4939	0.4721	0.3313	0.4753	0.4753	0.0380	0.0381	0.0381	0.0381	0.0381
4	7.3770	3.7029	2.4780	1.8660	1.2461	0.9394	0.7268	0.5581	0.4852	0.4916	0.4939	0.4973	0.4750	0.3822	0.4644	0.4644	0.0380	0.0381	0.0381	0.0381	0.0381
6	4.9323	2.4790	1.6595	1.2475	0.9567	0.7269	0.6268	0.4850	0.5355	0.4933	0.4723	0.4758	0.4790	0.3127							
8	3.6991	1.8611	1.2469	0.9364	0.7267	0.5583	0.4857	0.4921	0.4941	0.4980	0.4753	0.4754	0.4646	0.3146							
12	2.4810	1.2478	0.9557	0.7269	0.6263	0.4855	0.5364	0.4945	0.4721	0.4754	0.4754	0.4644									
16	1.8626	0.9399	0.7272	0.5583	0.4855	0.4798	0.4937	0.4972	0.4753	0.4777	0.4644	0.5078									
24	1.2459	0.7266	0.6264	0.4846	0.4846	0.4940	0.4723	0.4750	0.4789	0.4645											
32	0.9380	0.5588	0.4857	0.4915	0.4940	0.4711	0.4751	0.4775	0.4647												
48	0.7259	0.3851	0.5356	0.4935	0.4723	0.4759	0.4787	0.4645													
64	0.5581	0.4993	0.4942	0.4978	0.4748	0.4774	0.4645														
96	0.4858	0.4938	0.4720	0.4749	0.4784	0.4645															
128	0.3821	0.3549	0.3812	0.3817	0.3127	0.3140															
192	0.4932	0.4748	0.4788	0.4644																	
256	0.0403	0.0885	(0.0373)	(0.0376)																	
384	(0.0371)	0.0383																			
512	0.0808	(0.0376)																			
768	(0.0378)																				
1024	(0.0373)																				

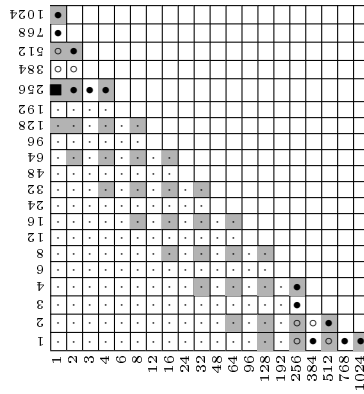


Table170. MB3 Kepler: Without L1, size 192×192, milliseconds.

1	251.613	123.278	83.727	61.646	41.862	30.826	20.932	15.413	10.465	7.718	5.837	4.378	(3.699)	(3.677)	(3.677)	(3.684)	(3.696)	(3.682)	(3.816)	(3.774)	(3.816)	(3.777)
2	123.369	61.637	41.793	30.838	20.932	15.412	10.464	7.718	5.837	4.378	(3.698)	(3.677)	(3.678)	(3.682)	(3.695)	(3.682)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.777)
3	83.820	41.862	27.908	20.932	13.953	10.458	7.708	5.837	4.378	(3.698)	(3.677)	(3.678)	(3.682)	(3.695)	(3.682)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.777)
4	61.711	30.835	20.934	15.420	10.458	7.708	5.837	4.378	(3.698)	(3.677)	(3.678)	(3.682)	(3.695)	(3.682)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.777)
6	41.948	20.932	13.952	10.455	7.783	5.837	4.378	(3.698)	(3.677)	(3.678)	(3.682)	(3.695)	(3.682)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.777)
8	30.897	15.415	10.465	7.710	5.837	4.378	(3.698)	(3.677)	(3.678)	(3.682)	(3.695)	(3.682)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.777)
12	20.900	10.472	7.785	5.837	4.383	(3.703)	(3.682)	(3.681)	(3.682)	(3.695)	(3.682)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.777)
16	15.444	7.715	5.843	4.383	(3.703)	(3.682)	(3.681)	(3.682)	(3.695)	(3.682)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.777)
24	7.725	4.382	(3.703)	(3.682)	(3.681)	(3.682)	(3.695)	(3.682)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.777)
48	5.843	(3.703)	(3.682)	(3.681)	(3.682)	(3.695)	(3.682)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.816)	(3.774)	(3.777)
64	4.382	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)
96	(3.703)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)	(3.681)
128	(3.680)	(3.696)	(3.740)	(3.818)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)	(3.815)
256	(3.681)	(3.682)	(3.817)	(3.760)																		
384	(3.693)	(3.816)																				
512	(3.683)	(3.777)																				
768	(3.815)																					
1024	(3.778)																					

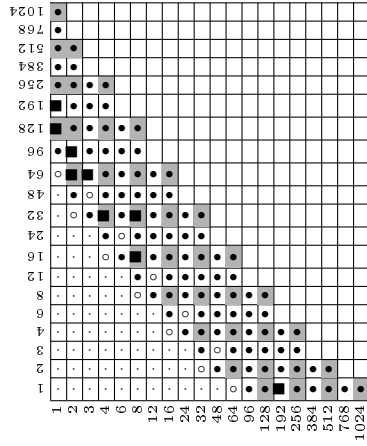


Table171. MB3 Kepler: Without L1, size 18432×18432, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	7.4233	3.7271	2.5039	1.8820	1.2679	0.9589	0.6479	0.5369	0.3351	0.3298	0.2376	0.1258	0.1561	(0.0588)	(0.0591)	(0.0589)	(0.0588)	(0.0588)	(0.0588)	(0.0588)	(0.0588)
2	3.7162	1.8816	1.2604	0.9558	0.6481	0.5377	0.3372	0.3260	0.2384	0.2281	0.1559	0.1263	0.1558	(0.0570)	(0.0587)	(0.0592)	(0.0586)	(0.0589)	(0.0588)	(0.0590)	(0.0588)
3	2.5000	1.2635	0.8551	0.6470	0.4423	0.3359	0.2740	0.2375	0.2151	0.1562	0.1623	0.1276	0.1534	(0.0586)	(0.0589)	(0.0588)	(0.0586)	(0.0589)	(0.0588)	(0.0588)	(0.0588)
4	1.8870	0.9577	0.6470	0.5392	0.3397	0.3284	0.2360	0.2282	0.1562	0.1562	0.1547	0.1286	0.1508	(0.0570)	(0.0581)	(0.0588)	(0.0586)	(0.0589)	(0.0588)	(0.0588)	(0.0588)
6	1.2630	0.6472	0.4402	0.3362	0.2743	0.2389	0.2139	0.1581	0.1636	0.1559	0.1527	0.1289	0.1496	(0.0570)	(0.0581)	(0.0588)	(0.0586)	(0.0589)	(0.0588)	(0.0588)	(0.0588)
8	0.9617	0.5379	0.3398	0.2774	0.2372	0.2272	0.1565	0.1563	0.1558	0.1630	0.1508	0.1284	0.1499	(0.0580)	(0.0581)	(0.0588)	(0.0586)	(0.0589)	(0.0588)	(0.0588)	(0.0588)
12	0.6484	0.3391	0.3326	0.2395	0.2289	0.1545	0.1547	0.1540	0.1622	0.1514	0.1495	0.1284	0.1499	(0.0580)	(0.0581)	(0.0588)	(0.0586)	(0.0589)	(0.0588)	(0.0588)	(0.0588)
16	0.5392	0.2401	0.2156	0.1564	0.1640	0.1566	0.1530	0.1514	0.1495	0.1780	0.1786	0.1356									
24	0.3337	0.2296	0.1556	0.1560	0.1555	0.1635	0.1518	0.1801													
32	0.2397	0.1571	0.1635	0.1562	0.1551	0.1498	0.1484	0.1772													
48	0.1289	0.1287	0.1281	0.1287	0.1288	0.1420	0.1288	0.1772													
64	0.1555	0.1566	0.1534	0.1510	0.1501	0.1784															
96	0.0583	(0.0589)	(0.0584)	(0.0587)	(0.0577)	[0.0565]*															
128	(0.0589)	(0.0573)	(0.0590)	(0.0571)																	
256	(0.0592)	(0.0575)	(0.0584)	(0.0583)																	
384	0.0600	(0.0592)																			
512	(0.0588)	0.0595																			
768	(0.0587)																				
1024	(0.0587)																				

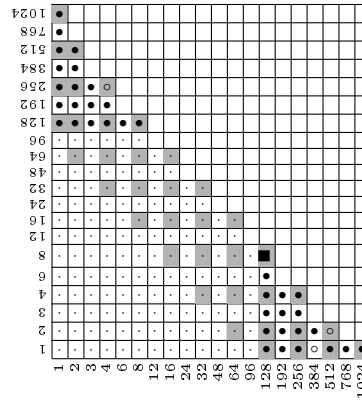


Table172. MB4 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	29.5271	14.7837	9.8824	7.4093	4.9455	3.7189	2.4840	1.8672	1.2510	0.9421	0.7270	0.5580	0.4853	0.3889	0.4027	0.0384	0.0367	0.0375	0.0375	0.0375	0.0375
2	14.7402	7.3825	4.9443	3.7068	2.4789	1.8638	1.2458	0.9387	0.7282	0.5582	0.4856	0.4784	0.4930	0.3847	0.4758	0.0383	0.0387	0.0387	0.0387	0.0387	0.0387
3	9.8726	4.9478	3.3036	2.4851	1.6646	1.2511	0.9653	0.7270	0.6264	0.4859	0.4383	0.4930	0.4714	0.3314	0.4785	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377
4	7.3990	3.7158	2.4818	1.8677	1.2508	0.9206	0.7264	0.5584	0.4854	0.4924	0.4938	0.4976	0.4757	0.3829	0.4635	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375
6	4.9400	2.4823	1.6607	1.2473	0.9566	0.7276	0.6263	0.4857	0.5361	0.4934	0.4724	0.4756	0.4784	0.3128	0.4645	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375
8	3.7194	1.8637	1.2520	0.9413	0.7280	0.5859	0.4858	0.4925	0.4935	0.4724	0.4755	0.4789	0.4645	0.3177	0.4645	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375
12	2.4913	1.2523	0.9277	0.7276	0.6269	0.4853	0.5368	0.4935	0.4980	0.4756	0.4777	0.4645	0.3116	0.4645	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375
16	1.8702	0.9432	0.7282	0.5594	0.4858	0.4929	0.4945	0.4980	0.4750	0.4788	0.4645	0.3116	0.4645	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375
24	1.2546	0.7286	0.6267	0.4861	0.5370	0.4943	0.4722	0.4750	0.4788	0.4645	0.3116	0.4645	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375
32	0.9478	0.5598	0.4860	0.4920	0.4941	0.4977	0.4750	0.4789	0.4645	0.3116	0.4645	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375
48	0.7308	0.3868	0.5286	0.4946	0.4724	0.4771	0.4789	0.4645	0.3116	0.4645	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375
64	0.5613	0.4990	0.4938	0.4977	0.4783	0.4777	0.4647	0.4647	0.3112	0.4645	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375
96	0.4872	0.4938	0.4725	0.4750	0.4789	0.4648	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191
128	0.3827	0.3854	0.3318	0.3819	0.3130	0.3130	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191	0.3191
192	0.4947	0.4751	0.4791	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653	0.4653
256	0.0375	0.0375	0.0387	0.0387	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382
384	0.0373	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388
512	0.0382	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405	0.0405
768	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398	0.0398
1024	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382	0.0382

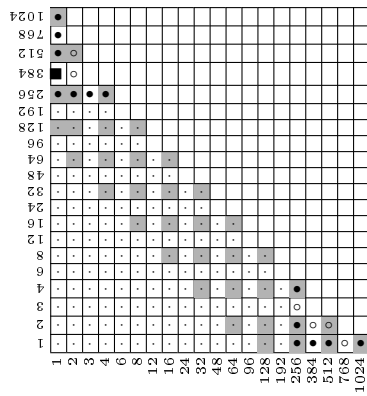


Table173. MB4 Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	28178.4	142038.9	94558.3	7097.0	4735.0	3554.7	2372.9	1754.7	1190.8	898.5	669.3	505.1	429.4	426.3	426.4	426.5	428.0	426.5	441.5	437.9	
2	14067.0	7050.3	4710.4	3531.1	2633.3	1772.3	1189.3	892.8	689.3	505.1	428.3	426.3	426.4	426.3	428.0	426.3	441.7	435.8			
3	9434.9	4730.7	3156.6	2370.8	1583.4	1100.4	888.1	689.3	567.3	428.5	472.1	426.3	426.3	426.3	428.0	432.1	441.5				
4	7041.4	3533.6	2367.2	1779.8	1189.5	893.8	689.2	505.3	428.3	426.2	426.4	426.1	426.5	424.9	439.8	436.3					
6	4708.1	2362.7	1581.6	1185.9	885.9	668.9	567.2	427.1	470.0	424.8	424.7	424.7	432.2	439.8							
8	3523.1	1768.8	1185.1	890.5	668.6	502.8	427.4	424.7	424.5	424.5	424.8	424.7	439.8	436.6							
12	2349.9	1184.2	884.2	687.6	565.1	427.3	424.9	424.5	424.5	424.5	424.5	432.1	439.8								
16	1745.7	880.4	665.8	503.0	427.3	470.1	424.8	424.5	426.4	426.2	424.8	439.8	436.4								
24	1185.2	666.3	565.2	427.4	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1								
32	898.5	504.1	427.4	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1								
48	687.8	427.6	470.2	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1								
64	505.4	424.7	424.9	426.3	426.3	424.7	439.8														
96	427.0	424.8	424.9	426.3	426.3	424.7	439.8														
128	424.5	425.0	426.3	426.3	424.7	439.8															
192	425.0	426.5	432.3	439.8																	
256	425.0	424.9																			
384	426.2	440.7																			
512	424.8	436.6																			
768	441.4																				
1024	437.1																				

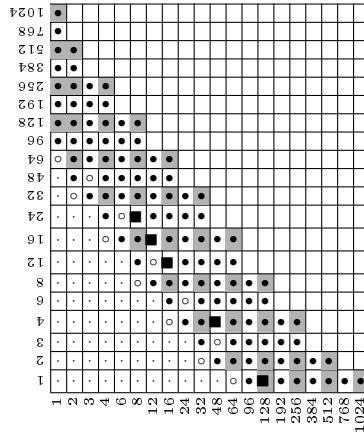


Table174. MB4 Kepler: Normal L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	7.4093	3.7254	2.4900	1.8779	1.2612	0.9533	0.6427	0.5345	0.3313	0.3238	0.2353	0.1242	0.1523	0.0580	0.0569	0.0568	0.0568	0.0573	0.0567	0.0573	1.024
2	3.7175	1.8808	1.2607	0.9527	0.6451	0.5352	0.3333	0.3238	0.2348	0.2251	0.1521	0.1235	0.1528	0.0569	0.0583	0.0570	0.0570	0.0573	0.0573		
3	2.4968	1.2627	0.8514	0.6455	0.4378	0.3334	0.2694	0.2341	0.2118	0.1527	0.1508	0.1240	0.1496	0.0568	0.0568	0.0572	0.0570	0.0573			
4	1.8807	0.9526	0.6451	0.5355	0.3337	0.3276	0.2352	0.2250	0.1522	0.1522	0.1522	0.1250	0.1477	0.0568	0.0568	0.0572	0.0570	0.0573			
6	1.2624	0.6437	0.4377	0.3342	0.2694	0.2341	0.2107	0.1526	0.1607	0.1525	0.1485	0.1251	0.1466	0.0565	0.0566	0.0575	0.0570	0.0573			
8	0.9588	0.5360	0.3348	0.3341	0.3296	0.2340	0.2252	0.1526	0.1524	0.1528	0.1594	0.1480	0.1387	0.0565	0.0565		0.0568	0.0573			
12	0.6466	0.3348	0.2696	0.2360	0.2116	0.1526	0.1608	0.1524	0.1495	0.1463	0.1462	0.1231	0.1747	0.0565							
16	0.5378	0.3258	0.2344	0.2249	0.1527	0.1519	0.1535	0.1565	0.1477	0.1463	0.1463	0.1385									
24	0.3370	0.2559	0.2115	0.1522	0.1605	0.1525	0.1587	0.1479	0.1463	0.1463	0.1463	0.1385									
32	0.3302	0.2255	0.1528	0.1520	0.1528	0.1474	0.1466	0.1474	0.1463	0.1463	0.1463	0.1385									
48	0.2354	0.1531	0.1607	0.1523	0.1500	0.1474	0.1466	0.1474	0.1463	0.1463	0.1463	0.1385									
64	0.1250	0.1249	0.1249	0.1249	0.1245	0.1474	0.1466	0.1474	0.1463	0.1463	0.1463	0.1385									
96	0.1533	0.1528	0.1498	0.1479	0.1464	0.1474	0.1466	0.1474	0.1463	0.1463	0.1463	0.1385									
128	0.0571	0.0571	0.0567	0.0567	0.0570	0.0568															
192	0.0572	0.0573	0.0594	0.0579																	
256	0.0585	0.0576																			
384	0.0563*	0.0574																			
512	0.0566	0.0571																			
768	0.0567																				
1024	0.0565																				

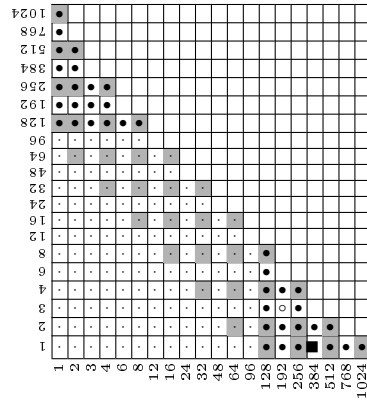


Table 175. MB4 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	29.5395	14.7828	9.8607	7.4155	4.9428	3.7118	2.4765	1.8646	1.2436	0.9396	0.7277	0.5557	0.4357	0.3538	0.3143	0.2942	0.0423	0.0369*	0.0402	0.0409	
2	14.7196	7.4032	4.9362	3.7028	2.4768	1.8649	1.2485	0.9361	0.7275	0.5586	0.4362	0.4921	0.4339	0.3520	0.3175	0.0412	0.0419				
3	9.8652	4.9420	3.3035	2.4833	1.8567	1.2512	0.9571	0.7268	0.6265	0.4858	0.4349	0.4937	0.4729	0.3321	0.3191	0.0411					
4	7.4093	3.7136	2.4857	1.8655	1.2502	0.9225	0.7269	0.5581	0.4866	0.4929	0.4935	0.4978	0.4756	0.3817	0.3127	0.0410					
6	4.9443	2.4807	1.8601	1.2493	0.9573	0.7276	0.6269	0.4860	0.5350	0.4934	0.4729	0.4749	0.4789	0.3127							
8	3.7177	1.8668	1.2478	0.9420	0.7284	0.5586	0.4856	0.4924	0.4947	0.4970	0.4747	0.4784	0.4646	0.3204							
12	2.4861	1.2521	0.9571	0.7398	0.6267	0.4860	0.5367	0.4940	0.4734	0.4748	0.4784	0.4644									
16	1.8821	0.9456	0.7288	0.5587	0.4860	0.4918	0.4940	0.4978	0.4751	0.4780	0.4644										
24	1.2524	0.7284	0.6271	0.4857	0.5362	0.4805	0.4726	0.4748	0.4780	0.4644											
32	0.9497	0.5597	0.4862	0.4809	0.4949	0.4977	0.4759	0.4789	0.4645												
48	0.7320	0.3863	0.5236	0.4939	0.4728	0.4757	0.4759	0.4789	0.4645												
64	0.5818	0.4997	0.4947	0.4978	0.4757	0.4778	0.4778	0.4648	0.5113												
96	0.4873	0.3950	0.4724	0.4754	0.4703	0.4647															
128	0.3839	0.3580	0.3318	0.3821	0.3130	0.3228															
192	0.4950	0.4759	0.4792	0.4651																	
256	0.0426	0.0422	0.0413	0.0419																	
384	(0.0403)	0.0414																			
512	(0.0404)	(0.0407)																			
768	(0.0404)																				
1024	(0.0411)																				

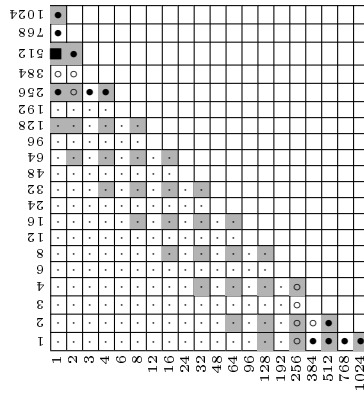


Table176. MB4 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	28292.5	14180.0	9445.5	7088.0	4727.9	3558.0	2372.6	1788.0	1190.8	808.5	670.2	506.1	429.8	427.2	426.4	426.6	428.3	426.1	441.6	438.0
2	14078.5	7040.3	4710.5	3531.0	2363.4	1772.7	1189.4	894.8	609.4	506.1	429.7	426.6	426.4	426.4	428.1	426.6	441.6	438.1		
3	9443.8	4733.4	3159.5	2373.3	1586.1	1193.5	888.5	669.4	567.5	428.9	428.0	426.4	426.4	426.4	428.0	426.6	441.6	437.7		
4	7049.4	3538.2	2369.9	1743.8	1189.7	893.0	669.6	505.4	428.8	426.4	426.4	426.4	426.4	426.4	426.4	426.6	441.6	437.7		
6	4715.6	2370.6	1582.0	1189.2	888.7	669.6	567.5	428.9	426.4	426.4	426.4	426.4	426.4	426.4	426.4	426.6	441.6	437.7		
8	3530.2	1773.9	1188.2	892.4	667.3	503.2	428.9	426.4	426.4	426.4	426.4	426.4	426.4	426.4	426.4	426.6	441.6	437.7		
12	2368.8	1185.4	886.9	667.5	567.6	427.4	424.8	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
16	1742.2	883.9	668.0	503.5	427.4	424.8	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
24	1184.0	668.4	565.3	427.4	424.8	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
32	898.8	504.2	427.4	424.8	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
48	688.1	427.5	470.4	424.8	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
64	505.5	424.4	424.8	424.8	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
96	427.0	424.4	424.8	424.8	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
128	424.0	424.4	424.8	424.8	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
192	424.0	424.4	424.8	424.8	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
256	424.0	424.4	424.8	424.8	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
384	424.0	424.4	424.8	424.8	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
512	424.0	424.4	424.8	424.8	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3	424.3
768	441.7																			
1024	437.3																			

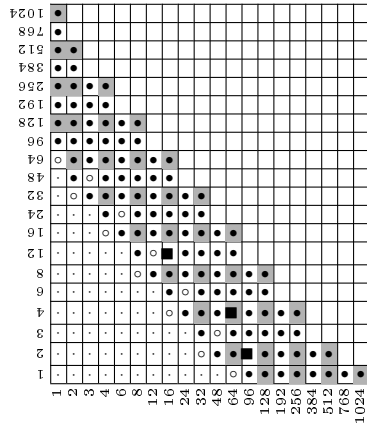


Table177. MB4 Kepler: Increased L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	7.4170	3.7311	2.4952	1.8839	1.2684	0.9572	0.6474	0.5384	0.3364	0.3273	0.2385	0.1272	0.1533	0.0606	0.0572	0.0584	0.0566				
2	3.7249	1.8783	1.2647	0.9569	0.6462	0.5380	0.3350	0.3273	0.2364	0.2287	0.1537	0.1288	0.1558	0.0595	0.0588	0.0572	0.0584	0.0566			
3	2.4967	1.2656	0.8502	0.6484	0.4427	0.3371	0.2718	0.2374	0.2128	0.1552	0.1634	0.1266	0.1526	0.0594	0.0573	0.0585	0.0589				
4	1.8828	0.9581	0.6480	0.5385	0.3358	0.3298	0.2382	0.2284	0.1558	0.1537	0.1529	0.1284	0.1506	0.0596	0.0589	0.0573	0.0585				
6	1.2679	0.6477	0.4401	0.3371	0.2751	0.2358	0.2109	0.1583	0.1631	0.1564	0.1527	0.1285	0.1494	0.0592	0.0589	0.0573	0.0585				
8	0.9569	0.5390	0.3369	0.3296	0.2372	0.2382	0.1566	0.1583	0.1631	0.1564	0.1527	0.1285	0.1494	0.0592	0.0589	0.0573	0.0585				
12	0.6485	0.3378	0.2732	0.2389	0.2150	0.1546	0.1643	0.1537	0.1512	0.1482	0.1500	0.1284	0.1774	0.0566	0.0589	0.0573	0.0585				
16	0.5396	0.3319	0.2377	0.2288	0.1546	0.1549	0.1541	0.1620	0.1506	0.1489	0.1781	0.1368									
24	0.3387	0.2380	0.2148	0.1546	0.1641	0.1563	0.1510	0.1489	0.1496	0.1776											
32	0.3371	0.2387	0.1559	0.1548	0.1558	0.1626	0.1486	0.1896	0.1775	0.2266											
48	0.2397	0.1560	0.1642	0.1283	0.1288	0.1413	0.1285	0.1368													
64	0.1267	0.1268	0.1284	0.1283	0.1288	0.1413	0.1285	0.1368													
96	0.1553	0.1561	0.1516	0.1509	0.1497	0.1777															
128	0.0590	0.0474	0.0584	0.0587	0.0576	0.0587															
192	0.0593	0.0598	0.0591	0.0590																	
256	0.0605	0.0592	0.0594																		
384	0.0595	0.0594																			
512	0.0590	0.0594																			
768	0.0588	0.0586																			
1024	0.0588																				

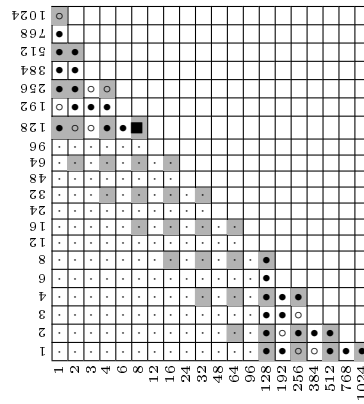


Table178. MB4 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	29.5337	14.7840	9.8548	7.4074	4.9568	3.7102	2.4750	1.8655	1.2526	0.9385	0.7269	0.5583	0.4863	0.3829	0.4035	0.03880	0.03880	0.03880	0.03880	0.03880	0.03880
2	14.7188	7.3762	4.9315	3.7029	2.4744	1.8630	1.2464	0.9381	0.7270	0.5581	0.4859	0.4916	0.4924	0.3852	0.4764	0.03880	0.03880	0.03880	0.03880	0.03880	0.03880
3	9.8743	4.9447	3.3036	2.4872	1.6645	1.2533	0.9568	0.7263	0.5264	0.4852	0.5228	0.4933	0.4723	0.3316	0.4787	0.03880	0.03880	0.03880	0.03880	0.03880	0.03880
4	7.4077	3.7183	2.4804	1.8632	1.2516	0.9415	0.7275	0.5580	0.4861	0.4795	0.4946	0.4979	0.4750	0.3820	0.4644	0.03880	0.03880	0.03880	0.03880	0.03880	0.03880
6	4.9397	2.4808	1.6597	1.2498	0.9571	0.7280	0.6272	0.4855	0.3365	0.4937	0.4724	0.4758	0.4758	0.3128							
8	3.7220	1.8685	1.2517	0.9427	0.7273	0.5593	0.4854	0.4918	0.4924	0.4978	0.4753	0.4776	0.4646	0.3182							
12	2.4881	1.2505	0.9577	0.7270	0.6272	0.4858	0.5356	0.4951			0.4758	0.4651	0.5181								
16	1.8673	0.9435	0.7278	0.5501	0.4853	0.4917	0.4936	0.4974	0.4755	0.4776											
24	1.2546	0.7282	0.6269	0.4860	0.4924	0.4941	0.4975	0.4751	0.4779	0.4647											
32	0.9497	0.5614	0.4860	0.4924	0.4945	0.4730	0.4761	0.4753	0.4779	0.4648	0.5111										
48	0.7301	0.3864	0.5354	0.4945	0.4945	0.4730	0.4761	0.4753	0.4779	0.4648	0.5119										
64	0.5614	0.4916	0.4948	0.4977	0.4753	0.4793	0.4638														
96	0.4872	0.3954	0.4727	0.4753	0.4793	0.4638															
128	0.3839	0.3558	0.3322	0.3817	0.3131	0.3188															
192	0.4950	0.4757	0.4794	0.4650																	
256	0.0374	0.0398	0.0381	0.0371*																	
384	0.0352	0.0391																			
512	0.0382	0.0388																			
768	0.0385																				
1024	0.0388																				

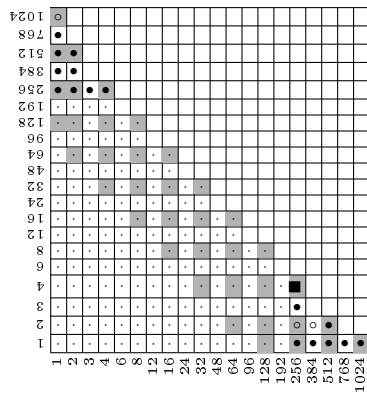


Table179. MB4 Kepler: Without L1, size 192×192, milliseconds.

1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
28202.2	14203.7	9458.8	7110.1	4734.8	3555.6	2372.4	1783.7	1190.4	808.2	669.1	505.0	(429.2)	(428.1)	(428.5)	(428.5)	(428.0)	(428.6)	(441.4)	(437.7)
14071.0	7048.2	4710.2	3531.8	2363.8	1771.9	1189.1	892.2	669.3	505.0	(428.0)	(428.0)	(428.2)	(428.4)	(428.1)	(426.4)	(441.2)	(437.9)		
9439.0	4731.2	3157.2	2370.6	1186.0	1190.7	888.3	669.5	567.1	(428.8)	472.4	(428.0)	(428.6)	(427.9)	(433.7)	(441.5)				
7045.3	3534.1	2367.4	1773.2	1189.4	892.5	669.6	505.0	(428.8)	(428.6)	(424.9)	(424.6)	(428.0)	(424.6)	(424.6)	(433.7)	(438.1)			
4705.4	2365.5	1578.6	1187.2	885.9	667.2	564.7	(428.8)	470.1	(424.9)	(424.6)	(424.6)	(424.6)	(424.6)	(424.6)	(424.6)	(424.6)			
3522.4	1771.4	1185.5	892.1	667.4	503.1	(427.1)	(424.8)	(424.9)	(424.7)	(432.2)	(439.3)	(440.0)	(439.8)						
2354.5	1183.5	884.4	667.4	565.0	(427.1)	(424.8)	(424.7)	(424.7)	(424.7)	(424.7)	(439.3)	(440.0)	(439.8)						
1745.7	882.1	667.7	503.0	(427.1)	(424.8)	(424.7)	(424.7)	(424.7)	(424.7)	(439.3)	(440.0)	(439.8)							
1185.3	666.0	565.2	(427.1)	470.0	(424.8)	(424.7)	(424.7)	(424.7)	(424.7)	(439.3)	(440.0)	(439.8)							
896.0	503.8	(427.2)	(424.8)	(424.9)	(424.8)	(424.7)	(424.7)	(424.7)	(424.7)	(439.3)	(440.0)	(439.8)							
685.2	(427.2)	470.2	(424.8)	(424.8)	(424.6)	(424.4)	(424.4)	(424.4)	(424.4)	(439.3)	(440.0)	(439.8)							
505.5	(424.8)	(424.9)	(424.8)	(424.8)	(424.6)	(424.4)	(424.4)	(424.4)	(424.4)	(439.3)	(440.0)	(439.8)							
(427.8)	(425.0)	(425.0)	(425.3)	(432.5)	(440.0)														
(424.8)	(424.9)	(425.4)	(424.7)	(440.2)	(436.2)														
(424.8)	(425.2)	(432.5)	(440.2)																
(425.0)	(424.1)	(440.4)	(436.0)																
(425.5)	(440.4)																		
(424.0)	(424.0)																		
(441.3)																			
(437.1)																			

Table180. MB4 Kepler: Without L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0493	0.0380	0.0324	0.0323	0.0292	0.0282	0.0281	0.0283	0.0280	0.0267	0.0273	0.0262	0.0257	0.0594	0.0592	0.0590	0.0576	0.0589	0.0591	0.0592
2	0.0387	0.0323	0.0309	0.0299	0.0289	0.0286	0.0279	0.0286	0.0281	0.0268	0.0273	0.0268	0.0272	0.0586	0.0586	0.0583	0.0585	0.0585		
3	0.0347	0.0305	0.0293	0.0286	0.0285	0.0278	0.0276	0.0272	0.0267	0.0252	0.0259	0.0261	0.0271	0.0590	0.0590	0.0594				
4	0.0309	0.0294	0.0274	0.0285	0.0276	0.0258	0.0268	0.0276	0.0269	0.0243	0.0269	0.0246	0.0264	0.0576	0.0583	0.0596				
6	0.0307	0.0286	0.0279	0.0280	0.0273	0.0275	0.0268	0.0268	0.0266	0.0243	0.0272	0.0253	0.0255	0.0589						
8	0.0300	0.0270	0.0279	0.0275	0.0270	0.0268	0.0264	0.0263	0.0269	0.0242	0.0270	0.0264	0.0268	0.0579						
12	0.0289	0.0282	0.0282	0.0274	0.0266	0.0268	0.0264	0.0263	0.0268	0.0241	0.0272	0.0266	0.0270							
16	0.0287	0.0282	0.0280	0.0272	0.0274	0.0264	0.0270	0.0263	0.0270	0.0263	0.0270	0.0271	0.0270							
24	0.0279	0.0273	0.0272	0.0266	0.0273	0.0270	0.0263	0.0270	0.0267	0.0267	0.0276	0.0270	0.0270							
32	0.0281	0.0256	0.0266	0.0268	0.0256	0.0268	0.0268	0.0264	0.0267	0.0268	0.0276	0.0270	0.0270							
48	0.0272	0.0256	0.0270	0.0254	0.0258	0.0268	0.0268	0.0266	0.0267	0.0268	0.0276	0.0270	0.0270							
64	0.0258	0.0258	0.0246	0.0258	0.0255	0.0256	0.0267	0.0267	0.0267	0.0267	0.0275	0.0271	0.0271							
96	0.0268	0.0267	0.0255	0.0269	0.0263	0.0271	0.0263	0.0267	0.0267	0.0267	0.0275	0.0271	0.0271							
128	0.0590	0.0588	0.0584	0.0597	0.0592	0.0592	0.0239*	0.0267												
192	0.0588	0.0589	0.0593	0.0574																
256	0.0581	0.0580	0.0569	0.0594																
384	0.0586	0.0593																		
512	0.0589	0.0594																		
768	0.0593																			
1024	0.0584																			

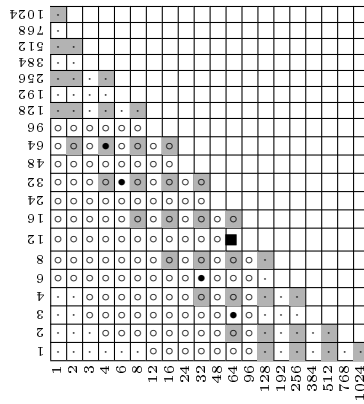


Table181. MB5 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1067	0.0609	0.0455	0.0378	0.0302	0.0268	0.0228	0.0210	0.0193	0.0183	0.0165	0.0134	0.0132	0.0116	0.0131	0.0380	0.0381	0.0391	0.0390	0.0388
2	0.0608	0.0379	0.0303	0.0268	0.0238	0.0212	0.0192	0.0184	0.0154	0.0134	0.0132	0.0138	0.0130	0.0115	0.0133	0.0382	0.0382	0.0381		
3	0.0456	0.0304	0.0252	0.0229	0.0204	0.0192	0.0177	0.0153	0.0132	0.0131	0.0129	0.0131	0.0130	0.0117	0.0140	0.0381				
4	0.0378	0.0268	0.0229	0.0211	0.0192	0.0184	0.0154	0.0135	0.0130	0.0130	0.0132	0.0138	0.0133	0.0117	0.0143	0.0381				
6	0.0268	0.0227	0.0204	0.0192	0.0177	0.0154	0.0132	0.0131	0.0130	0.0133	0.0132	0.0133	0.0140	0.0118						
8	0.0265	0.0211	0.0193	0.0182	0.0154	0.0134	0.0131	0.0132	0.0131	0.0132	0.0131	0.0131	0.0143	0.0136						
12	0.0228	0.0192	0.0178	0.0154	0.0132	0.0131	0.0131	0.0132	0.0131	0.0132	0.0131	0.0131	0.0143							
16	0.0211	0.0183	0.0155	0.0134	0.0130	0.0128	0.0132	0.0133	0.0132	0.0132	0.0131	0.0131	0.0143							
24	0.0193	0.0154	0.0133	0.0131	0.0130	0.0133	0.0132	0.0133	0.0131	0.0141	0.0143									
32	0.0183	0.0134	0.0131	0.0133	0.0133	0.0132	0.0132	0.0132	0.0141	0.0143										
48	0.0154	0.0131	0.0130	0.0133	0.0132	0.0133	0.0141	0.0144												
64	0.0135	0.0133	0.0127	0.0131	0.0132	0.0136	0.0143	0.0170												
96	0.0131	0.0131	0.0130	0.0132	0.0140	0.0144														
128	0.0115	0.0116	0.0117	0.0118	0.0118	0.0124														
192	0.0132	0.0132	0.0140	0.0143																
256	0.0378	0.0386	0.0383	0.0379																
384	0.0379	0.0381																		
512	0.0386	0.0389																		
768	0.0398																			
1024	0.0380																			

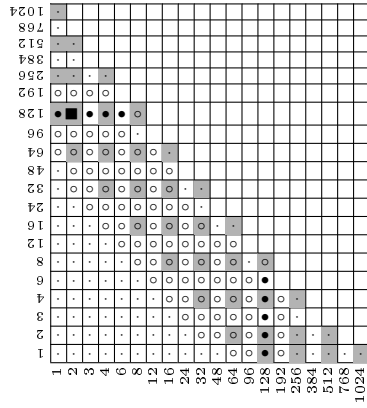


Table182. MB5 Kepler: Normal L1, size 192×192, milliseconds.

1	855.72	459.86	328.57	263.77	208.65	193.95	210.45	197.40	185.56	32	48	64	96	128	192	256	384	512	768	1024
2	459.82	263.26	209.13	194.13	210.64	197.40	185.37	188.85	127.12	95.22	63.43	(61.18)	(62.32)	(65.16)	(61.74)	(65.42)	(67.50)	(67.58)	(73.57)	(70.87)
3	328.90	208.67	208.06	210.74	193.01	185.47	168.99	125.71	84.79	63.95	62.97	(61.92)	(66.52)	67.69	68.86	73.34				
4	263.49	193.88	209.40	197.31	184.13	189.16	127.14	96.03	65.27	(61.96)	(59.39)	(64.89)	67.12	67.98	73.24	73.19				
6	208.98	210.24	192.70	185.26	168.48	127.63	85.97	63.95	63.57	(59.40)	(66.39)	67.52	67.69	73.55						
8	192.25	197.33	185.57	189.38	127.54	93.63	64.48	(61.92)	(61.88)	(65.75)	67.17	68.05	73.58	73.19						
12	210.38	185.49	167.60	127.80	84.58	63.61	(62.18)	(65.84)	65.87	67.50	67.96	71.81								
16	193.57	189.70	127.19	95.19	65.27	(61.70)	(62.18)	(65.84)	66.40	68.46	70.87	71.81								
24	188.50	93.63	64.98	(61.51)	(62.26)	(65.67)	66.98	67.70	70.87	71.81										
32	127.59	65.20	63.57	(61.90)	(66.40)	66.92	67.85	72.83												
48	95.70	(60.17)	(60.97)	64.24	66.94	67.89	73.47	72.89												
96	65.27	(61.52)	65.92	67.29	67.25	73.02														
128	(62.22)	64.38	67.74	66.14	72.08															
256	65.64	66.72	73.48	72.87																
384	67.11	73.50																		
512	67.61	71.95																		
768	73.30																			
1024	71.94																			

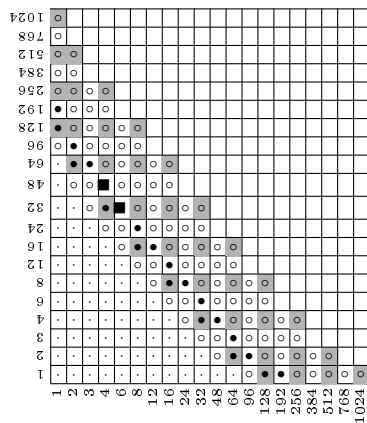


Table183. MB5 Kepler: Normal L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.0454	0.0343	0.0307	0.0286	0.0273	0.0265	0.0253	0.0249	0.0245	0.0249	0.0232	(0.0222)	0.0231	0.0231	0.0584	0.0565	0.0577	0.0573	0.0571	0.0573	0.0576
2	0.0345	0.0289	0.0269	0.0263	0.0250	0.0252	0.0243	0.0244	0.0236	0.0237	0.0233	(0.0219)	(0.0227)	0.0235	0.0570	0.0581	0.0569	0.0571	0.0560		
3	0.0307	0.0274	0.0275	0.0254	0.0244	0.0239	0.0246	0.0237	0.0233	0.0231	(0.0230)	(0.0227)	(0.0227)	0.0235	0.0578	0.0571	0.0572				
4	0.0291	0.0264	0.0252	0.0249	0.0238	0.0248	0.0237	0.0236	0.0233	0.0236	(0.0232)	(0.0228)	(0.0227)	0.0234	0.0576	0.0589	0.0570				
6	0.0271	0.0264	0.0247	0.0238	0.0241	0.0239	0.0231	0.0231	(0.0238)	0.0236	(0.0233)	(0.0228)	(0.0228)	0.0234	0.0564						
8	0.0262	0.0260	0.0242	0.0248	0.0246	0.0237	0.0233	0.0236	0.0232	0.0236	0.0233	(0.0230)	(0.0228)	0.0234	0.0572						
12	0.0252	0.0246	0.0237	0.0235	0.0235	0.0235	0.0231	0.0231	0.0234	(0.0228)	0.0237	(0.0228)	(0.0228)	0.0234	0.0572						
16	0.0246	0.0250	0.0237	0.0233	0.0233	0.0237	0.0232	0.0232	0.0232	0.0234	0.0232	(0.0228)	(0.0228)	0.0234	0.0572						
24	0.0240	0.0235	0.0231	0.0233	0.0231	0.0235	0.0232	0.0232	0.0231	0.0234	0.0235	(0.0228)	(0.0228)	0.0234	0.0572						
32	0.0247	0.0239	0.0231	0.0235	0.0231	0.0235	0.0232	0.0232	0.0231	0.0234	0.0235	(0.0228)	(0.0228)	0.0234	0.0572						
48	0.0231	(0.0229)	(0.0226)	(0.0226)	(0.0226)	(0.0226)	(0.0224)	(0.0224)	(0.0224)	(0.0224)	(0.0224)	(0.0224)	(0.0224)	(0.0224)	0.0572						
64	(0.0220)	(0.0223)	(0.0226)	(0.0226)	(0.0226)	(0.0226)	(0.0224)	(0.0224)	(0.0224)	(0.0224)	(0.0224)	(0.0224)	(0.0224)	(0.0224)	0.0572						
96	0.0231	0.0238	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0231	0.0572						
128	0.0575	0.0570	0.0573	0.0574	0.0570	0.0568															
192	0.0569	0.0570	0.0565	0.0572	0.0570	0.0568															
256	0.0575	0.0583	0.0574	0.0566																	
384	0.0568	0.0577	0.0574	0.0566																	
512	0.0568	0.0572																			
768	0.0574																				
1024	0.0569																				

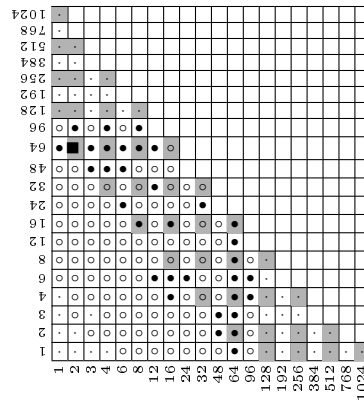


Table184. MB5 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.10681	0.0608	0.0454	0.03781	0.0304	0.0264	0.0228	0.0211	0.0193	0.0183	0.0152	0.0134	0.0132	0.0116	0.0132	0.0424	0.0410	0.0424	0.0418		
2	0.0608	0.0380	0.0303	0.0266	0.0229	0.0211	0.0192	0.0183	0.0154	0.0135	0.0132	0.0133	0.0131	0.0115	0.0132	0.0419	0.0434	0.0418			
3	0.0455	0.0304	0.0254	0.0228	0.0204	0.0193	0.0178	0.0158	0.0132	0.0132	0.0131	0.0131	0.0131	0.0119	0.0131	0.0410					
4	0.0379	0.0266	0.0228	0.0210	0.0192	0.0183	0.0154	0.0132	0.0131	0.0133	0.0133	0.0133	0.0134	0.0118	0.0134	0.0430					
6	0.0266	0.0211	0.0193	0.0183	0.0178	0.0154	0.0132	0.0132	0.0130	0.0134	0.0134	0.0133	0.0141	0.0118	0.0143						
8	0.0229	0.0192	0.0179	0.0154	0.0154	0.0132	0.0130	0.0133	0.0131	0.0132	0.0131	0.0131	0.0131	0.0137							
12	0.0211	0.0183	0.0154	0.0134	0.0131	0.0131	0.0130	0.0133	0.0134	0.0132	0.0132	0.0132	0.0143								
16	0.0192	0.0154	0.0130	0.0131	0.0130	0.0130	0.0131	0.0133	0.0134	0.0132	0.0132	0.0132	0.0143								
24	0.0183	0.0134	0.0130	0.0132	0.0133	0.0133	0.0134	0.0132	0.0133	0.0133	0.0133	0.0133	0.0143								
32	0.0154	0.0131	0.0130	0.0133	0.0133	0.0133	0.0133	0.0140	0.0143	0.0143											
48	0.0135	0.0134	0.0132	0.0131	0.0132	0.0135	0.0144	0.0170													
96	0.0131	0.0131	0.0131	0.0132	0.0140	0.0143															
128	0.0133	0.0133	0.0133	0.0140	0.0143	0.0136															
192	0.0133	0.0133	0.0140	0.0143																	
256	0.0405	0.0401	0.0411	0.0406																	
384	0.0414	0.0409																			
512	0.0415	0.0415																			
768	0.0401																				
1024	0.0407																				

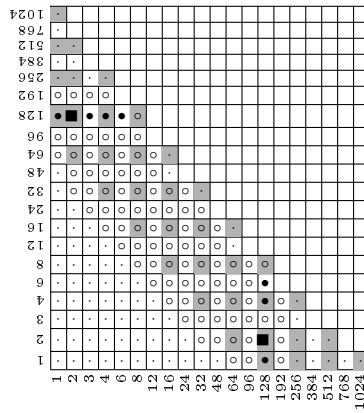


Table185. MB5 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	853.41	458.82	328.27	263.30	207.78	192.82	209.43	195.83	183.98	188.43	126.63	95.68	84.01	(61.48)	(61.48)	64.79	67.42	67.21	72.59	72.80
2	450.68	260.88	208.23	193.30	209.83	196.15	184.20	188.52	126.27	95.64	64.09	(60.45)	(61.88)	64.68	66.41	67.19	73.10	72.23		
3	327.72	207.48	205.91	209.40	192.08	184.62	188.38	126.26	84.75	64.24	62.34	(61.16)	(61.82)	66.72	66.15	72.59				
4	262.83	192.31	209.83	196.33	184.07	188.83	126.40	95.42	64.34	(61.39)	(61.94)	(61.94)	66.76	66.64	72.70	72.49				
6	208.60	209.58	191.89	184.41	188.03	126.68	84.98	63.94	62.48	(61.46)	65.17	66.60	67.84	72.96						
8	193.03	197.03	184.67	188.57	126.47	96.10	63.74	(60.92)	(60.98)	64.81	66.48	66.58	71.78	72.64						
12	209.21	184.71	167.73	126.70	85.06	64.10	62.34	(61.82)	65.63	66.79	68.13	72.78								
16	196.32	188.72	125.58	95.47	64.62	(60.69)	(61.65)	65.86	66.27	68.33	72.69	72.07								
24	186.84	127.02	84.48	(61.82)	(60.51)	64.57	66.73	66.73	72.33	72.11										
32	128.70	95.73	64.48	(61.37)	(60.51)	66.18	66.57	68.03												
48	95.68	(69.10)	(61.84)	65.26	66.80	66.77	72.51	72.30												
64	64.21	(61.41)	65.71	66.94	68.42	73.20														
96	(60.54)	65.73	66.54	67.19	72.65	72.49														
128	(61.69)	66.89	68.38	72.30																
256	65.17	72.53																		
384	67.17																			
512	66.97	72.25																		
768	72.73																			
1024	72.35																			

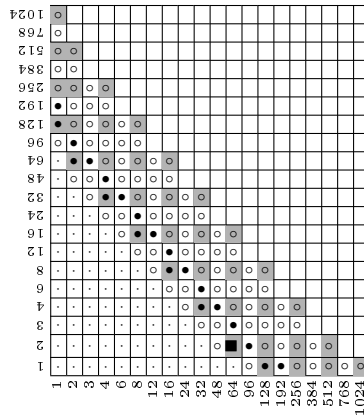


Table186. MB5 Kepler: Increased L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0490	0.0358	0.0340	0.0305	0.0299	0.0292	0.0269	0.0260	0.0263	0.0269	0.0268	0.0257	0.0257	0.0257	0.0259	0.0257	0.0259	0.0257	0.0257	0.0257
2	0.0376	0.0319	0.0307	0.0281	0.0286	0.0282	0.0257	0.0280	0.0272	0.0268	0.0268	0.0258	0.0258	0.0257	0.0257	0.0257	0.0257	0.0257	0.0257	0.0257
3	0.0338	0.0286	0.0293	0.0273	0.0278	0.0279	0.0260	0.0270	0.0245	0.0264	0.0264	0.0260	0.0260	0.0260	0.0260	0.0260	0.0260	0.0260	0.0260	0.0260
4	0.0308	0.0297	0.0285	0.0266	0.0275	0.0280	0.0249	0.0265	0.0245	0.0268	0.0268	0.0263	0.0263	0.0263	0.0263	0.0263	0.0263	0.0263	0.0263	0.0263
6	0.0300	0.0268	0.0285	0.0275	0.0276	0.0271	0.0266	0.0263	0.0263	0.0263	0.0263	0.0263	0.0263	0.0263	0.0263	0.0263	0.0263	0.0263	0.0263	0.0263
8	0.0292	0.0275	0.0272	0.0281	0.0267	0.0271	0.0271	0.0266	0.0264	0.0264	0.0264	0.0264	0.0264	0.0264	0.0264	0.0264	0.0264	0.0264	0.0264	0.0264
12	0.0381	0.0370	0.0369	0.0359	0.0359	0.0361	0.0354	0.0364	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357
16	0.0278	0.0282	0.0289	0.0282	0.0289	0.0281	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284	0.0284
24	0.0262	0.0250	0.0243*	0.0243*	0.0243*	0.0247	0.0272	0.0265	0.0265	0.0265	0.0265	0.0265	0.0265	0.0265	0.0265	0.0265	0.0265	0.0265	0.0265	0.0265
32	0.0282	0.0267	0.0264	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268
48	0.0362	0.0356	0.0356	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351	0.0351
64	0.0351	0.0354	0.0354	0.0352	0.0352	0.0352	0.0352	0.0352	0.0352	0.0352	0.0352	0.0352	0.0352	0.0352	0.0352	0.0352	0.0352	0.0352	0.0352	0.0352
96	0.0357	0.0362	0.0362	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357
128	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386	0.0386
192	0.0343	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341	0.0341
256	0.0349	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344	0.0344
384	0.0383	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371
512	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388
768	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388
1024	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371	0.0371

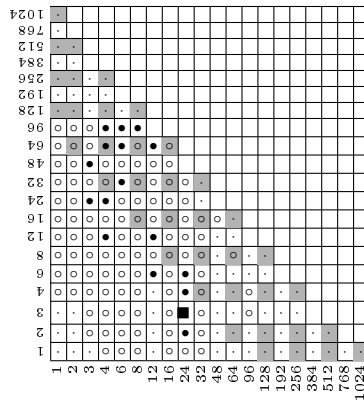


Table187. MB5 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.1070	0.0608	0.0456	0.0380	0.0302	0.0265	0.0229	0.0212	0.0192	0.0184	0.0154	0.0134	0.0131	(0.0115)	0.0133	0.0369	0.0377	0.0377	0.0377	0.0373	0.0380
2	0.0609	0.0379	0.0303	0.0266	0.0228	0.0210	0.0193	0.0182	0.0154	0.0134	0.0132	0.0133	0.0132	(0.0116)	0.0132	0.0371	0.0383	0.0379			
3	0.0454	0.0303	0.0253	0.0228	0.0204	0.0192	0.0179	0.0154	0.0132	0.0131	0.0133	0.0131	0.0131	(0.0118)	0.0141	0.0376					
4	0.0380	0.0265	0.0228	0.0211	0.0192	0.0183	0.0154	0.0131	0.0132	0.0131	0.0132	0.0131	0.0133	(0.0118)	0.0143	0.0384					
6	0.0255	0.0216	0.0193	0.0183	0.0154	0.0134	0.0131	0.0132	0.0135	0.0131	0.0132	0.0132	0.0140	(0.0118)							
8	0.0228	0.0192	0.0178	0.0183	0.0154	0.0134	0.0131	0.0133	0.0133	0.0131	0.0132	0.0137	0.0143	0.0137							
12	0.0192	0.0184	0.0154	0.0134	0.0131	0.0133	0.0130	0.0131	0.0131	0.0131	0.0132	0.0140	0.0144								
16	0.0192	0.0153	0.0132	0.0130	0.0131	0.0132	0.0131	0.0133	0.0133	0.0133	0.0133	0.0140	0.0149								
24	0.0183	0.0134	0.0132	0.0133	0.0133	0.0130	0.0134	0.0137	0.0143	0.0170											
32	0.0153	0.0132	0.0132	0.0133	0.0131	0.0133	0.0141	0.0143													
48	0.0134	0.0133	0.0132	0.0133	0.0133	0.0135	0.0143	0.0169													
96	0.0131	0.0131	0.0131	0.0132	0.0141	0.0143															
128	(0.0153)	(0.0163)	(0.0171)	(0.0148)	(0.0118)	0.0137															
192	0.0133	0.0133	0.0141	0.0143																	
256	0.0396	0.0376	0.0387	0.0375																	
384	0.0374	0.0381																			
512	0.0388	0.0378																			
768	0.0360																				
1024	0.0383																				

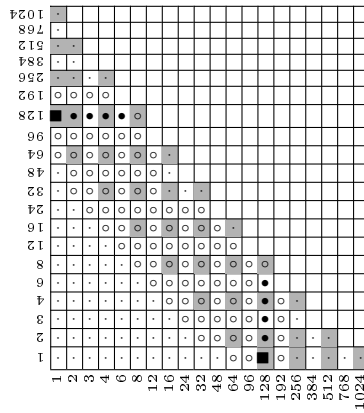


Table188. MB5 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	853.98	459.68	328.37	263.76	208.90	193.31	208.99	197.24	184.85	180.71	127.33	95.50	65.11	69.09	62.03	65.58	67.69	67.79	73.89	72.80
2	459.66	263.50	208.73	193.16	209.93	197.28	185.00	180.66	127.31	96.42	64.99	61.73	62.10	64.72	67.73	67.79	73.45	72.80		
3	329.08	208.85	206.07	210.53	193.10	185.18	185.58	127.34	85.50	64.71	63.26	62.20	66.35	67.86	68.82	73.69				
4	263.84	193.63	210.62	183.61	185.17	189.53	128.69	96.32	64.92	61.98	69.40	65.92	67.81	67.76	73.20	72.74				
6	208.90	209.82	192.42	183.61	188.60	124.61	85.92	65.05	63.51	61.85	66.41	67.58	68.59	72.96						
8	192.73	197.33	185.51	189.70	127.11	93.63	63.95	61.94	62.04	63.18	67.42	67.84	67.83	72.97	72.64					
12	210.17	185.31	188.06	127.11	85.59	65.18	62.87	62.45	66.45	67.42	68.71	74.14								
16	193.73	188.97	127.31	96.46	85.25	61.13	62.09	65.68	67.84	67.61	73.02	72.54								
24	180.66	127.14	85.71	64.84	63.26	62.09	66.71	67.48	68.54	73.67										
32	188.80	96.45	64.85	60.63	61.90	65.78	67.37	67.51	73.44	73.19										
48	128.18	65.39	62.86	61.57	66.44	67.27	68.54	73.15												
64	98.00	61.85	62.18	65.88	67.73	67.64	72.70	72.53												
96	64.97	61.98	65.34	67.25	67.28	72.75														
128	62.00	65.67	66.95	67.82	71.93	72.73														
256	65.40	67.45	73.61	71.40																
384	67.29	73.05																		
512	65.14	73.17																		
768	72.94																			
1024	73.15																			

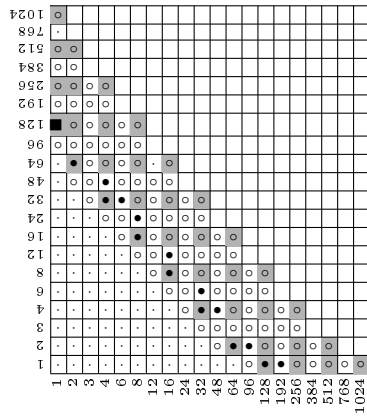


Table189. MB5 Kepler: Without L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	102	256	384	512	768	1024
1	0.0348	0.0302	0.0343	0.0320	0.0293	0.0276	0.0273	0.0260	0.0252	0.0247	0.0249	0.0241	0.0242	0.0242	0.0575	0.0580	0.0588	0.0588	0.0582	0.0579
2	0.0301	0.0316	0.0287	0.0270	0.0267	0.0245	0.0255	0.0249	0.0242	(0.0234)	0.0244	0.0242	0.0241	0.0244	0.0588	0.0592	0.0582	0.0588	0.0582	0.0579
3	0.0344	0.0290	0.0274	0.0253	0.0260	0.0253	0.0243	0.0246	(0.0234)*	0.0239	0.0243	0.0236	0.0246	0.0241	0.0580	0.0594	0.0582	0.0588	0.0582	0.0579
4	0.0313	0.0276	0.0264	0.0258	(0.0233)	0.0248	0.0250	0.0246	0.0242	0.0241	0.0241	0.0244	0.0241	0.0241	0.0591	0.0588	0.0588	0.0588	0.0588	0.0588
6	0.0292	0.0264	0.0268	0.0254	0.0245	0.0247	0.0241	0.0239	0.0242	0.0242	0.0242	0.0243	0.0240	0.0245	0.0575	0.0588	0.0588	0.0588	0.0588	0.0588
8	0.0278	0.0258	0.0247	0.0252	0.0248	0.0247	0.0241	0.0238	0.0242	0.0242	0.0242	0.0243	0.0240	0.0238	0.0586	0.0588	0.0588	0.0588	0.0588	0.0588
12	0.0271	0.0238	0.0248	0.0252	0.0244	0.0246	0.0246	0.0242	0.0242	0.0242	(0.0229)	0.0242	0.0242	0.0242	0.0586	0.0588	0.0588	0.0588	0.0588	0.0588
16	0.0256	(0.0232)	0.0245	0.0250	0.0244	0.0248	0.0244	0.0241	0.0241	0.0240	0.0240	0.0240	0.0240	0.0240	0.0586	0.0588	0.0588	0.0588	0.0588	0.0588
24	0.0252	0.0240	0.0241	0.0244	0.0245	0.0241	0.0238	0.0241	0.0241	0.0240	0.0240	0.0240	0.0240	0.0240	0.0586	0.0588	0.0588	0.0588	0.0588	0.0588
32	0.0254	0.0249	0.0243	0.0240	0.0244	0.0244	0.0243	0.0241	0.0241	0.0240	0.0240	0.0240	0.0240	0.0240	0.0586	0.0588	0.0588	0.0588	0.0588	0.0588
48	0.0249	0.0243	(0.0227)	0.0244	0.0244	0.0243	0.0237	0.0241	0.0241	0.0240	0.0240	0.0240	0.0240	0.0240	0.0586	0.0588	0.0588	0.0588	0.0588	0.0588
64	0.0241	0.0240	(0.0227)	0.0244	0.0244	0.0243	(0.0225)	0.0241	0.0240	0.0240	0.0240	0.0240	0.0240	0.0240	0.0586	0.0588	0.0588	0.0588	0.0588	0.0588
96	0.0246	0.0242	0.0242	0.0240	0.0246	0.0242	0.0243	0.0241	0.0240	0.0240	0.0240	0.0240	0.0240	0.0240	0.0586	0.0588	0.0588	0.0588	0.0588	0.0588
128	0.0585	0.0586	0.0586	0.0669	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589
192	0.0594	0.0579	0.0590	0.0574	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
256	0.0588	0.0593	0.0588	0.0593	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
384	0.0591	0.0598	0.0588	0.0598	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
512	0.0591	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
768	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587
1024	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582

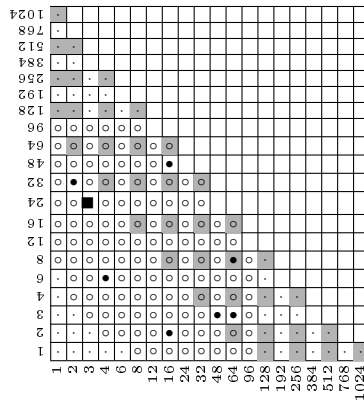


Table190. MB6 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1290	0.0678	0.0475	0.0373	0.0271	0.0220	0.0169	0.0144	0.0117	0.0105	0.0094	0.0088	0.0081	0.0075	0.0078	0.0402	0.0375	0.0366	0.0376	0.0376
2	0.0679	0.0373	0.0271	0.0220	0.0169	0.0144	0.0118	0.0106	0.0094	0.0088	0.0081	0.0079	0.0078	0.0078	0.0077	0.0379	0.0385	0.0385		
3	0.0475	0.0271	0.0203	0.0169	0.0135	0.0118	0.0103	0.0094	0.0085	0.0081	0.0080	0.0078	0.0078	0.0078	0.0078	0.0380	0.0385	0.0385		
4	0.0373	0.0220	0.0170	0.0144	0.0119	0.0106	0.0094	0.0086	0.0081	0.0079	0.0078	0.0077	0.0077	0.0077	0.0077	0.0382	0.0385	0.0385		
6	0.0271	0.0169	0.0135	0.0118	0.0102	0.0093	0.0086	0.0081	0.0079	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0382	0.0385	0.0385		
8	0.0220	0.0144	0.0118	0.0106	0.0094	0.0088	0.0081	0.0079	0.0078	0.0078	0.0078	0.0077	0.0077	0.0077	0.0077	0.0382	0.0385	0.0385		
12	0.0170	0.0118	0.0102	0.0094	0.0086	0.0081	0.0079	0.0078	0.0078	0.0078	0.0078	0.0077	0.0077	0.0077	0.0077	0.0382	0.0385	0.0385		
16	0.0144	0.0106	0.0094	0.0088	0.0081	0.0079	0.0078	0.0078	0.0078	0.0078	0.0078	0.0077	0.0077	0.0077	0.0077	0.0382	0.0385	0.0385		
24	0.0119	0.0094	0.0086	0.0081	0.0080	0.0079	0.0078	0.0078	0.0078	0.0078	0.0078	0.0077	0.0077	0.0077	0.0077	0.0382	0.0385	0.0385		
32	0.0106	0.0080	0.0081	0.0079	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0077	0.0077	0.0077	0.0077	0.0382	0.0385	0.0385		
48	0.0095	0.0082	0.0079	0.0079	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0077	0.0077	0.0077	0.0077	0.0382	0.0385	0.0385		
64	0.0088	0.0079	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0077	0.0077	0.0077	0.0077	0.0382	0.0385	0.0385		
96	0.0081	0.0079	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0077	0.0077	0.0077	0.0077	0.0382	0.0385	0.0385		
128	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0077	0.0077	0.0077	0.0077	0.0382	0.0385	0.0385		
192	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0077	0.0077	0.0077	0.0077	0.0382	0.0385	0.0385		
256	0.0385	0.0376	0.0375	0.0376																
384	0.0381	0.0376	0.0375	0.0376																
512	0.0371	0.0380																		
768	0.0365																			
1024	0.0374																			

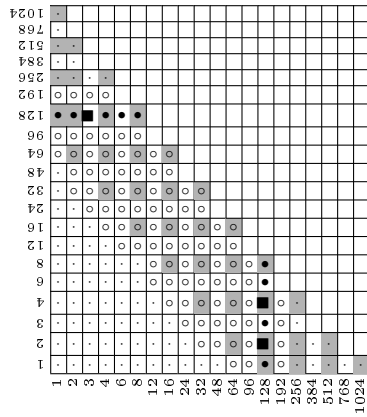


Table191. MB6 Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1047.061	1522.342	351.016	263.992	177.026	133.480	89.953	65.297	46.076	33.880	23.855	17.593	12.402	9.778	10.921	9.984	10.305	(9.715)	12.369	10.284
2	524.411	263.905	177.239	133.422	89.544	68.287	46.389	35.198	22.967	17.272	12.417	9.781	10.512	9.736	9.919	(9.714)	12.850	10.234		
3	350.997	176.626	118.868	89.420	60.767	43.584	30.237	23.854	16.536	12.404	11.433	10.925	10.008	10.306	10.699	12.850				
4	263.216	133.149	89.922	67.830	45.968	35.138	23.857	17.894	11.505	9.795	10.382	9.984	10.306	(9.716)	12.855	10.514				
6	176.005	89.722	60.147	45.089	31.803	23.235	15.338	12.081	11.439	10.920	(9.634)	10.306	9.923	12.850						
8	133.155	68.082	45.665	35.199	23.856	17.893	11.505	(9.412)	10.920	(9.491)	10.038	(9.715)	12.215	9.746						
12	89.648	46.036	29.506	23.857	15.339	12.082	11.010	10.920	10.008	10.306	9.926	12.850								
16	67.938	35.196	23.856	17.893	12.402	9.775	10.920	(9.726)	10.050	(9.481)										
24	43.533	23.885	16.535	12.438	11.436	10.131	10.008	10.306	10.451	12.850										
32	35.196	17.893	12.403	9.776	10.921	10.039	9.919	(9.714)												
48	22.721	12.082	11.438	10.136	9.749	10.039	10.700	12.850	10.189											
64	17.895	9.776	10.921	10.921	10.921	(9.514)	10.038	(9.715)	12.369	10.505										
96	12.082	10.925	(9.514)	10.306	10.422	12.854														
128	9.778	(9.611)	10.306	12.850	10.238															
192	10.920	9.797	10.699	12.850																
256	9.992	(9.714)	12.849	10.238																
384	10.306	12.850																		
512	(9.714)	10.506																		
768	12.849																			
1024	10.505																			

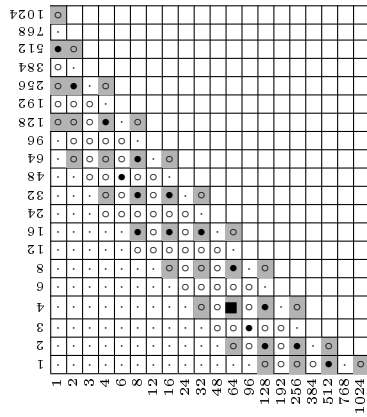


Table192. MB6 Kepler: Normal L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0510	0.0358	0.0302	0.0280	0.0258	0.0245	0.0234	0.0225	0.0221	0.0215	0.0214	(0.0194)	0.0212	0.0570	0.0570	0.0567	0.0570	0.0576	0.0571	
2	0.0356	0.0279	0.0257	0.0245	0.0228	0.0225	0.0216	0.0215	0.0215	0.0210	(0.0200)	0.0207	0.0208	0.0565	0.0586	0.0596				
3	0.0302	0.0256	0.0239	0.0229	0.0215	0.0214	0.0212	0.0211	0.0204	0.0206	0.0207	0.0204	0.0203	0.0570	0.0570	0.0574				
4	0.0284	0.0243	0.0230	0.0224	0.0219	0.0215	0.0213	0.0211	(0.0203)	0.0208	0.0204	0.0206	0.0204	0.0572	0.0557	0.0564				
6	0.0258	0.0229	0.0227	0.0217	0.0216	0.0209	0.0212	0.0207	(0.0194)*	0.0206	0.0204	(0.0202)	0.0206							
8	0.0247	0.0224	0.0216	0.0212	0.0209	0.0209	0.0209	0.0208	0.0211	0.0204	0.0204	(0.0202)	0.0204	0.0572						
12	0.0217	0.0213	0.0211	0.0211	0.0211	0.0205	0.0207	0.0204	0.0205	(0.0203)	0.0205	0.0206								
16	0.0226	0.0216	0.0212	0.0216	0.0208	0.0209	0.0207	0.0208	0.0204	0.0208	0.0206	(0.0203)								
24	0.0204	0.0208	0.0207	0.0208	0.0204	0.0204	0.0207	0.0207	0.0206	0.0204	0.0206	(0.0203)								
32	0.0213	0.0219	0.0208	0.0206	0.0206	0.0204	0.0207	(0.0203)	0.0207	0.0207										
48	0.0207	0.0206	0.0206	0.0206	0.0205	0.0204	(0.0203)	0.0206	0.0207	0.0207										
64	0.0209	0.0211	(0.0202)	(0.0202)	0.0205	0.0204	(0.0203)	0.0206												
96	0.0558	0.0566	0.0567	0.0567	0.0579	0.0578														
128	0.0584	0.0566	0.0567	0.0569	0.0579	0.0578														
192	0.0584	0.0572	0.0573	0.0559	0.0579	0.0578														
256	0.0569	0.0572	0.0573	0.0559	0.0579	0.0578														
384	0.0584	0.0572	0.0573	0.0559	0.0579	0.0578														
512	0.0579	0.0572	0.0573	0.0559	0.0579	0.0578														
768	0.0584	0.0572	0.0573	0.0559	0.0579	0.0578														
1024	0.0560																			

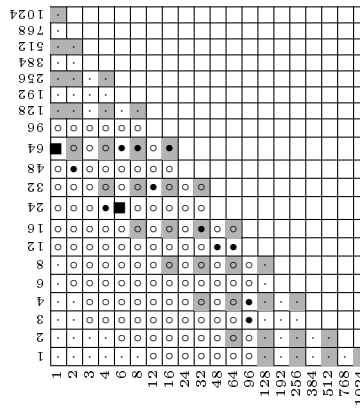


Table 193. MB6 Kepler: Increased L1, size 96×96, milliseconds.

1	0.1290	0.0680	0.0476	0.0373	0.0271	0.0220	0.0169	0.0144	0.0119	0.0105	0.0094	0.0088	0.0081	0.0075	0.0079	0.0410	0.0410	0.0410	0.0388	1.024
2	0.0678	0.0373	0.0271	0.0220	0.0170	0.0144	0.0118	0.0106	0.0094	0.0089	0.0081	0.0079	0.0079	0.0079	0.0078	0.0410	0.0423	0.0417		
3	0.0474	0.0271	0.0203	0.0170	0.0137	0.0119	0.0102	0.0093	0.0085	0.0081	0.0080	0.0079	0.0078	0.0078	0.0077	0.0412				
4	0.0374	0.0220	0.0170	0.0143	0.0119	0.0106	0.0094	0.0086	0.0081	0.0079	0.0079	0.0078	0.0078	0.0078	0.0079	0.0404				
6	0.0271	0.0170	0.0136	0.0118	0.0103	0.0094	0.0088	0.0081	0.0079	0.0078	0.0077	0.0078	0.0077	0.0079						
8	0.0221	0.0144	0.0118	0.0106	0.0094	0.0088	0.0081	0.0079	0.0078	0.0077	0.0078	0.0077	0.0079							
12	0.0169	0.0119	0.0102	0.0094	0.0084	0.0079	0.0079	0.0078	0.0078	0.0078	0.0079	0.0078	0.0079							
16	0.0145	0.0106	0.0094	0.0087	0.0081	0.0079	0.0078	0.0078	0.0078	0.0078	0.0079	0.0078	0.0079							
24	0.0118	0.0094	0.0085	0.0081	0.0079	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078							
32	0.0106	0.0088	0.0081	0.0079	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078							
48	0.0094	0.0080	0.0080	0.0079	0.0079	0.0078	0.0079	0.0078	0.0079	0.0079	0.0079	0.0078	0.0078							
64	0.0088	0.0080	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078							
96	0.0081	0.0078	0.0079	0.0078	0.0078	0.0079	0.0078	0.0079	0.0078	0.0078	0.0079	0.0078	0.0079							
128	(0.0075)	(0.0073)	(0.0073)*	(0.0073)	(0.0075)	(0.0075)														
192	0.0078	0.0078	0.0078	0.0079	0.0079	0.0078														
256	0.0412	0.0407	0.0410	0.0421																
384	0.0408	0.0407																		
512	0.0413	0.0414																		
768	0.0415																			
1024	0.0408																			

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64
96
128
192
256
384
512
768
1024

Table194. MB6 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1046.161	1523.235	340.565	262.831	175.689	131.853	88.938	67.159	45.228	34.177	23.854	17.894	12.402	(9.780)	10.921	(9.984)	(10.306)	(9.715)	12.850	10.505
2	525.780	263.702	175.802	132.439	88.664	67.039	45.914	34.444	23.857	17.891	12.402	(9.777)	(10.920)	(9.984)	10.306	(9.714)	12.850			
3	349.424	175.497	117.949	88.845	59.762	45.743	31.034	23.250	16.532	12.403	11.438	10.920	(10.920)	10.306	(9.730)	12.855	10.587			
4	263.105	132.568	89.220	66.468	45.186	34.261	23.854	17.893	12.403	(9.778)	10.920	(9.984)	(10.920)	10.306	(9.730)	12.855	10.587			
6	175.398	88.892	59.496	45.178	31.200	23.769	16.534	12.402	11.434	10.901	(10.008)	10.305	10.699	12.851						
8	132.762	67.474	44.809	35.013	24.020	17.893	12.410	(9.795)	10.920	(9.995)	10.306	(9.715)	12.854	10.505						
12	88.709	45.457	31.184	23.799	16.536	12.403	11.435	10.920	(10.009)	10.306	10.730	12.860								
16	67.291	34.306	23.807	17.895	12.437	(9.780)	10.920	10.324	10.699	(9.714)	12.851	10.846								
24	45.870	23.772	16.533	12.402	11.434	(10.008)	(10.009)	10.324	10.699	12.850										
32	33.577	17.893	12.403	(9.779)	10.921	(9.984)	10.306	(9.714)	12.850											
48	23.848	12.434	11.437	10.926	(10.008)	(10.008)	10.334	10.698	12.850											
64	17.893	(9.778)	10.921	(10.008)	10.923	(9.984)	10.327	10.699	12.850											
96	12.403	10.921	(10.008)	10.923	10.327	10.699	12.850													
128	(9.778)	(9.986)	10.306	(9.714)*	12.849	10.504														
256	(9.984)	(9.719)	12.850	10.504																
384	10.328	12.850																		
512	(9.714)	10.505																		
768	12.851																			
1024	10.507																			

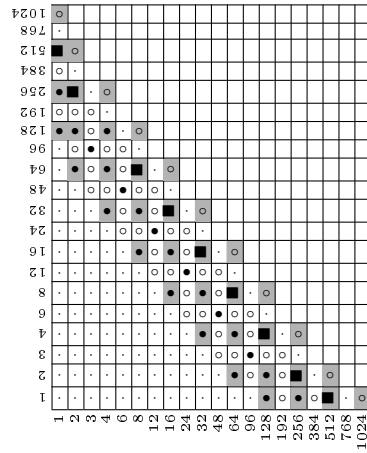


Table195. MB6 Kepler: Increased L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0635	0.0392	0.0332	0.0300	0.0285	0.0285	0.0275	0.0268	0.0255	0.0250	0.0241	0.0237	0.0240	0.0238	0.0238	0.0235	0.0234	0.0232	0.0231	0.0230
2	0.0380	0.0312	0.0284	0.0276	0.0243	0.0243	0.0239	0.0252	0.0233	0.0227	0.0224	0.0240	0.0240	0.0232	0.0232	0.0231	0.0229	0.0228	0.0227	0.0226
3	0.0341	0.0294	0.0264	0.0263	0.0254	0.0249	0.0246	0.0246	0.0232	0.0228	0.0223	0.0237	0.0237	0.0236	0.0236	0.0235	0.0234	0.0233	0.0232	0.0231
4	0.0312	0.0272	0.0260	0.0255	0.0249	0.0247	0.0248	0.0248	0.0240	0.0237	0.0235	0.0235	0.0236	0.0236	0.0236	0.0235	0.0234	0.0233	0.0232	0.0231
6	0.0280	0.0258	0.0250	0.0250	0.0249	0.0242	0.0229	0.0229	0.0237	0.0231	0.0230	0.0235	0.0238	0.0234	0.0234	0.0233	0.0232	0.0231	0.0230	0.0229
8	0.0271	0.0254	0.0247	0.0245	0.0241	0.0227	0.0224	0.0224	0.0237	0.0235	0.0235	0.0237	0.0238	0.0234	0.0234	0.0233	0.0232	0.0231	0.0230	0.0229
12	0.0250	0.0252	0.0234	0.0247	0.0242	0.0237	0.0223	0.0223	0.0237	0.0234	0.0235	0.0237	0.0238	0.0234	0.0234	0.0233	0.0232	0.0231	0.0230	0.0229
16	0.0260	0.0235	0.0245	0.0239	0.0235	0.0237	0.0231	0.0241	0.0236	0.0233	0.0235	0.0237	0.0238	0.0234	0.0234	0.0233	0.0232	0.0231	0.0230	0.0229
24	0.0234	0.0229	0.0239	0.0225	0.0237	0.0232	0.0231	0.0234	0.0236	0.0233	0.0235	0.0237	0.0238	0.0234	0.0234	0.0233	0.0232	0.0231	0.0230	0.0229
32	0.0248	0.0231	0.0226	0.0236	0.0232	0.0222	0.0243	0.0228	0.0236	0.0233	0.0235	0.0237	0.0238	0.0234	0.0234	0.0233	0.0232	0.0231	0.0230	0.0229
48	0.0240	0.0238	0.0226	0.0236	0.0232	0.0222	0.0243	0.0228	0.0236	0.0233	0.0235	0.0237	0.0238	0.0234	0.0234	0.0233	0.0232	0.0231	0.0230	0.0229
64	0.0235	0.0231	0.0223	0.0235	0.0232	0.0222	0.0243	0.0228	0.0236	0.0233	0.0235	0.0237	0.0238	0.0234	0.0234	0.0233	0.0232	0.0231	0.0230	0.0229
96	0.0235	0.0231	0.0223	0.0235	0.0232	0.0222	0.0243	0.0228	0.0236	0.0233	0.0235	0.0237	0.0238	0.0234	0.0234	0.0233	0.0232	0.0231	0.0230	0.0229
128	0.0584	0.0586	0.0592	0.0588	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587
192	0.0591	0.0570	0.0572	0.0576	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587
256	0.0698	0.0587	0.0587	0.0588	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587
384	0.0681	0.0587	0.0587	0.0588	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587
512	0.0871	0.0588	0.0587	0.0588	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587
768	0.0735	0.0588	0.0587	0.0588	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587
1024	0.0681	0.0588	0.0587	0.0588	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587	0.0587

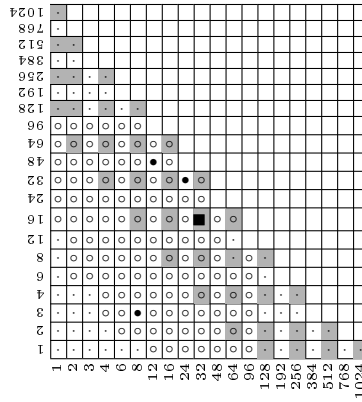


Table196. MB6 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1290	0.0679	0.0475	0.0372	0.0271	0.0221	0.0169	0.0144	0.0118	0.0108	0.0094	0.0088	0.0081	0.0074	0.0078	0.0088	0.0372	0.0385	0.0378	0.0401
2	0.0678	0.0374	0.0271	0.0220	0.0169	0.0144	0.0118	0.0105	0.0092	0.0088	0.0081	0.0079	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
3	0.0475	0.0270	0.0204	0.0170	0.0135	0.0118	0.0103	0.0094	0.0086	0.0081	0.0079	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
4	0.0374	0.0221	0.0170	0.0144	0.0103	0.0094	0.0085	0.0081	0.0079	0.0078	0.0078	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
6	0.0271	0.0144	0.0118	0.0106	0.0094	0.0088	0.0081	0.0078	0.0078	0.0078	0.0078	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
8	0.0220	0.0118	0.0103	0.0106	0.0094	0.0088	0.0081	0.0078	0.0078	0.0078	0.0078	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
12	0.0169	0.0106	0.0103	0.0094	0.0088	0.0081	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
16	0.0144	0.0106	0.0094	0.0088	0.0081	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
24	0.0105	0.0088	0.0081	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
32	0.0105	0.0088	0.0081	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
48	0.0094	0.0080	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
64	0.0087	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
96	0.0081	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
128	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
192	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0078	0.0070	0.0072	0.0078	0.0078	0.0374	0.0385	0.0378	0.0401
256	0.0807	0.0819	0.0803	0.0888																
384	0.0820	0.0390																		
512	0.0882	0.0394																		
768	0.0403																			
1024	0.0888																			

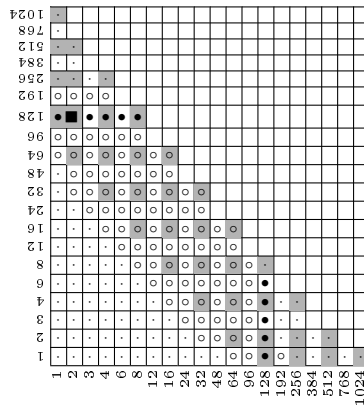


Table197. MB6 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1047.374	1524.831	351.132	263.481	176.598	133.617	89.320	67.833	45.802	35.094	23.856	17.937	12.401	(9.777)	10.926	(9.984)	10.324	(9.713)	12.851	10.506
2	524.765	263.670	176.640	132.819	89.801	67.618	46.375	35.199	23.855	17.906	12.402	(9.779)	10.921	(9.983)	10.306	(9.715)	12.862	10.505		
3	350.602	174.118	118.533	89.847	60.555	46.630	31.805	23.856	16.582	12.402	11.413	10.637	(10.020)	10.305	10.699	12.850				
4	264.006	131.879	89.913	67.665	45.666	35.199	23.906	17.896	12.402	(9.777)	(10.019)	(9.984)	10.305	(9.715)	12.861	10.505				
6	176.515	89.719	60.199	46.124	31.916	23.908	16.533	12.403	11.412	10.920	(10.009)	10.305	10.699	12.850						
8	133.268	67.783	45.829	35.121	23.857	17.892	12.401	(9.778)	10.920	(9.985)	(10.008)	10.305	10.710	(9.714)	12.850	10.507				
12	89.333	45.039	31.804	23.858	16.535	12.411	11.434	10.921	(10.008)	10.306	(9.715)	12.850	10.505							
16	67.969	35.198	23.855	17.944	12.403	(9.779)	10.920	(9.985)	10.306	(9.715)	12.850	10.505								
24	45.990	23.855	16.535	12.417	11.431	10.921	(10.020)	10.305	10.699	12.850										
32	34.853	17.894	12.431	(9.780)	10.926	(10.008)	10.305	10.505												
48	23.853	12.401	11.432	(9.777)	(10.009)	(9.984)	10.305	10.505												
64	17.894	(9.777)	10.920	(9.984)	10.305	(9.714)	12.850													
96	12.403	10.926	(10.009)	10.305	10.726	12.850														
128	(9.778)	(9.984)	10.306	(9.714)	12.850	(10.111)														
192	10.921	10.306	10.699	12.850																
256	(9.984)	(9.713)																		
384	10.306	12.850																		
512	(9.715)	10.546																		
768	12.850																			
1024	10.545																			

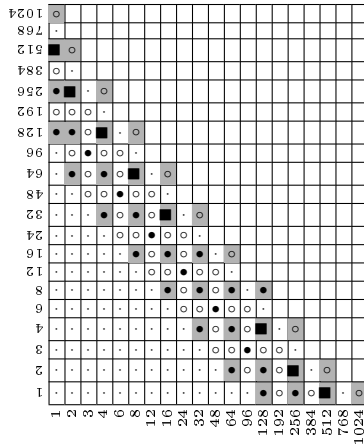


Table198. MB6 Kepler: Without L1, size 18432×18432, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	7.3885	3.7163	2.4920	1.8742	1.2651	0.9544	0.6472	0.5367	0.3368	0.3311	0.2388	0.1275	0.1564	0.0594	0.0587	0.0586	0.0586	0.0583	0.0586	0.0583	0.0586
2	3.7093	1.8807	1.2608	0.9534	0.6460	0.5363	0.3367	0.3294	0.2384	0.2280	0.1642	0.1278	0.1559	0.0580	0.0585	0.0584	0.0584	0.0580	0.0586	0.0583	0.0586
3	2.4900	1.2596	0.8525	0.6471	0.4384	0.3371	0.2719	0.2371	0.2141	0.1553	0.1645	0.1258	0.1521	0.0586	0.0580	0.0584	0.0584	0.0580	0.0586	0.0583	0.0586
4	1.8741	0.9575	0.6483	0.5378	0.3351	0.3273	0.2381	0.2276	0.1661	0.1558	0.1559	0.1276	0.1511	0.0570	0.0585	0.0580	0.0584	0.0580	0.0586	0.0583	0.0586
6	1.2659	0.6480	0.4404	0.3337	0.2759	0.2364	0.2133	0.1541	0.1629	0.1559	0.1532	0.1275	0.1482	0.0570	0.0585	0.0580	0.0584	0.0580	0.0586	0.0583	0.0586
8	0.9534	0.5379	0.3348	0.3312	0.2387	0.2276	0.1641	0.1542	0.1531	0.1514	0.1484	0.1279	0.1775	0.0576	0.0586	0.0580	0.0584	0.0580	0.0586	0.0583	0.0586
12	0.6474	0.3362	0.2741	0.2379	0.2133	0.1542	0.1641	0.1548	0.1531	0.1514	0.1484	0.1279	0.1775	0.0576	0.0586	0.0580	0.0584	0.0580	0.0586	0.0583	0.0586
16	0.5373	0.3269	0.2376	0.2286	0.1558	0.1542	0.1529	0.1529	0.1512	0.1500	0.1780	0.1838	0.1333								
24	0.3338	0.2384	0.2138	0.1562	0.1628	0.1555	0.1529	0.1529	0.1512	0.1500	0.1780	0.1838	0.1333								
32	0.3268	0.2273	0.1557	0.1563	0.1561	0.1629	0.1508	0.1879	0.1780	0.1775	0.2239										
48	0.2360	0.1557	0.1644	0.1561	0.1532	0.1516	0.1497	0.1780	0.1775	0.2239											
64	0.1257	0.1273	0.1271	0.1275	0.1276	0.1422	0.1278	0.1385													
96	0.1536	0.1555	0.1532	0.1510	0.1497	0.1767															
128	0.0573	0.0580	0.0583	0.0575	0.0588	0.0583															
192	0.0588	0.0581	0.0581	0.0588	0.0588	0.0583															
256	0.0587	0.0593	0.0585	0.0586	0.0586	0.0583															
384	0.0590	0.0578																			
512	0.0591	0.0569																			
768	0.0594																				
1024	0.0590																				

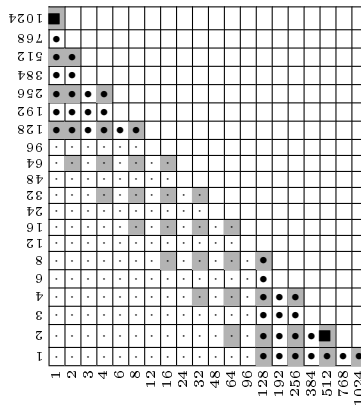


Table199. MB7 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	29.3634	14.7041	9.8303	7.3867	4.9305	3.7112	2.4739	1.8585	1.2457	0.9391	0.7257	0.5578	0.4849	0.3820	0.4931	0.0372	0.0372	0.0365*	0.0381	0.0371
2	14.7163	7.3675	4.9219	3.7079	2.4778	1.8588	1.2459	0.9369	0.7257	0.5578	0.4850	0.4910	0.4932	0.3848	0.4746	0.0404	0.0384	0.0391		
3	9.8228	4.9260	3.2918	2.4727	1.6547	1.2462	0.9355	0.7255	0.6264	0.4847	0.4356	0.4932	0.4716	0.3306	0.4780	0.0374				
4	7.3722	3.6981	2.4724	1.8597	1.2483	0.9284	0.7257	0.5577	0.4851	0.4910	0.4931	0.4989	0.4738	0.3814	0.4638	0.0373				
6	4.9224	2.4709	1.6531	1.2472	0.9560	0.7257	0.6264	0.4850	0.5345	0.4924	0.4713	0.4741	0.4780	0.3123						
8	3.7040	1.8600	1.2457	0.9406	0.7268	0.5850	0.4854	0.4910	0.4938	0.4970	0.4741	0.4766	0.4636	0.3143						
12	2.4757	1.2456	0.9358	0.7257	0.7260	0.6262	0.4855	0.5356	0.4930	0.4717	0.4740	0.4778	0.4637	0.5076						
16	1.8649	0.9368	0.7257	0.5588	0.4851	0.4897	0.4798	0.4973	0.4737	0.4760	0.4638									
24	1.2463	0.7258	0.6259	0.4853	0.4881	0.4930	0.4716	0.4745	0.4784	0.4638										
32	0.9391	0.5579	0.4851	0.4916	0.4927	0.4972	0.4733	0.4770	0.4770	0.4638	0.5143									
48	0.7257	0.3855	0.5359	0.4928	0.4729	0.4739	0.4784	0.4637												
64	0.5582	0.4917	0.4930	0.4708	0.4739	0.4769	0.4638	0.5075												
96	0.4841	0.4929	0.4717	0.4745	0.4783	0.4639														
128	0.3825	0.3542	0.3307	0.3812	0.3121	0.3143														
192	0.4929	0.4743	0.4778	0.4636																
256	0.0371	0.0373	0.0384	0.0368																
384	0.0352	0.0378																		
512	0.0372	0.0379																		
768	0.0371																			
1024	0.0382																			

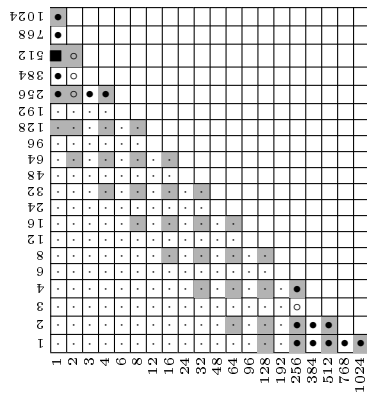


Table200. MB7 Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	260.699	126.218	83.478	62.610	41.742	31.307	20.870	15.655	10.438	7.827	5.831	4.374	(3.696)	(3.674)	(3.678)	(3.681)	(3.692)	(3.680)	(3.812)	(3.771)
2	195.323	62.610	41.742	31.306	20.872	15.654	10.437	7.827	5.831	4.374	(3.693)	(3.674)	(3.675)	(3.678)	(3.692)	(3.681)	(3.812)	(3.773)		
3	83.570	41.740	27.829	20.872	13.915	10.436	7.828	5.831	4.083	(3.696)	(3.670)	(3.671)	(3.682)	(3.696)	(3.746)	(3.812)				
4	62.698	31.309	20.877	15.658	10.436	7.828	5.831	4.374	(3.693)	(3.676)	(3.670)	(3.681)	(3.696)	(3.880)	(3.811)	(3.773)				
6	41.810	20.873	13.916	10.438	7.774	5.833	4.928	(3.696)	(3.674)	(3.680)	(3.682)	(3.694)	(3.746)	(3.812)						
8	31.378	15.655	10.438	7.829	5.831	4.374	(3.696)	(3.674)	(3.680)	(3.676)	(3.693)	(3.811)	(3.811)	(3.772)						
12	20.922	10.440	7.777	5.833	4.928	(3.696)	(3.675)	(3.670)	(3.682)	(3.693)	(3.745)	(3.812)								
16	15.680	7.832	5.833	4.376	(3.699)	(3.675)	(3.670)	(3.670)	(3.670)	(3.692)	(3.811)	(3.772)								
24	10.438	5.836	4.932	(3.701)	(3.678)	(3.670)	(3.670)	(3.670)	(3.670)	(3.694)	(3.811)	(3.773)								
32	7.833	4.377	(3.701)	(3.678)	(3.670)	(3.670)	(3.670)	(3.670)	(3.670)	(3.693)	(3.811)									
48	5.838	(3.699)	(3.678)	(3.678)	(3.670)	(3.680)	(3.680)	(3.680)	(3.680)	(3.746)	(3.811)									
64	4.378	(3.701)	(3.678)	(3.670)	(3.694)	(3.746)	(3.808)													
96	(3.701)	(3.670)	(3.670)	(3.694)	(3.746)	(3.810)	(3.774)													
128	(3.678)	(3.678)	(3.694)	(3.680)	(3.810)	(3.774)														
192	(3.678)	(3.694)	(3.743)	(3.812)																
256	(3.678)	(3.680)	(3.812)	(3.776)																
384	(3.694)	(3.812)																		
512	(3.811)	(3.772)																		
768	(3.811)																			
1024	(3.772)																			

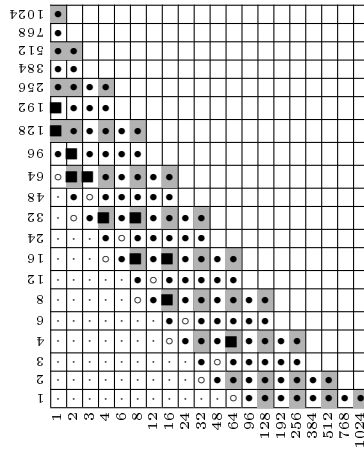


Table201. MB7 Kepler: Normal L1, size 18432×18432, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	7.3919	3.7136	2.4827	1.8766	1.2562	0.9520	0.6436	0.5345	0.3316	0.3237	0.2365	0.1239	0.1521	(0.0570)	(0.0568)	(0.0580)	(0.0557)*	(0.0579)	(0.0564)	(0.0567)
2	3.7224	1.8788	1.2636	0.9548	0.6421	0.5311	0.3330	0.3275	0.2350	0.2245	0.1525	0.1240	0.1519	(0.0566)	(0.0567)	(0.0566)	(0.0580)	(0.0576)		
3	2.4881	1.2620	0.8477	0.6433	0.4366	0.3332	0.2338	0.2353	0.2100	0.1527	0.1507	0.1240	0.1491	(0.0564)	(0.0564)	(0.0565)	(0.0574)			
4	1.8749	0.9510	0.6428	0.5344	0.3334	0.3237	0.2333	0.2252	0.1524	0.1517	0.1518	0.1240	0.1481	(0.0568)	(0.0568)	(0.0574)				
6	1.2596	0.6438	0.4356	0.3312	0.2396	0.2360	0.2089	0.1525	0.1599	0.1523	0.1489	0.1244	0.1483	(0.0572)						
8	0.9506	0.5334	0.3317	0.3257	0.2348	0.2349	0.1524	0.1517	0.1524	0.1476	0.1476	0.1384	0.1748	(0.0558)						
12	0.6438	0.3331	0.2700	0.2326	0.2096	0.1528	0.1604	0.1524	0.1488	0.1476	0.1474	0.1336								
16	0.5345	0.3237	0.2340	0.2246	0.1525	0.1518	0.1525	0.1590	0.1473	0.1465	0.1747	0.1300								
24	0.3314	0.2339	0.2097	0.1523	0.1601	0.1520	0.1492	0.1475	0.1461	0.1748										
32	0.2321	0.2346	0.1623	0.1519	0.1521	0.1593	0.1474	0.1855	0.1742	0.2212										
48	0.2351	0.1519	0.1595	0.1524	0.1494	0.1460	0.1461	0.1747												
64	0.1227	0.1239	0.1242	0.1237	0.1258	0.1384	0.1235	0.1292												
96	0.1522	0.1522	0.1495	0.1473	0.1459	0.1741														
128	(0.0571)	(0.0566)	(0.0571)	(0.0574)	(0.0565)															
192	(0.0576)	(0.0566)	(0.0570)	(0.0566)																
256	(0.0567)	(0.0569)	(0.0567)	(0.0568)																
384	(0.0562)	(0.0564)	(0.0567)	(0.0568)																
512	(0.0572)	(0.0576)																		
768	(0.0570)																			
1024	(0.0569)																			

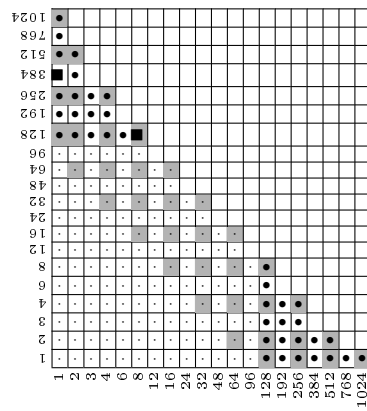


Table20. MB7 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	29.3553	14.7195	9.8207	7.3643	4.9240	3.6911	2.4792	1.8569	1.2440	0.9385	0.7268	0.5581	0.4848	0.3510	0.4930	0.0409	0.0410	0.0407	0.0403	0.0410
2	14.7268	7.3804	4.9244	3.6987	2.4761	1.8668	1.2472	0.9384	0.7254	0.5572	0.4852	0.4918	0.4935	0.3544	0.4738	0.0405	0.0411	0.0413	0.0403	0.0410
3	9.8249	4.9213	3.2968	2.4751	1.6601	1.2439	0.9552	0.7257	0.6268	0.4852	0.4933	0.4721	0.4933	0.3303	0.4783	0.0394*	0.0411	0.0413	0.0403	0.0410
4	7.3772	3.7081	2.4775	1.8674	1.2458	0.9367	0.7253	0.5583	0.4853	0.4915	0.4933	0.4978	0.4739	0.3810	0.4639	0.0428				
6	4.9247	2.4735	1.6580	1.2463	0.9553	0.7263	0.6263	0.4851	0.5357	0.4931	0.4714	0.4745	0.4784	0.3121						
8	3.6984	1.8609	1.2475	0.9374	0.7269	0.5583	0.4845	0.4926	0.4928	0.4969	0.4743	0.4769	0.4637	0.3143						
12	2.4709	1.2457	0.9553	0.7257	0.6262	0.4852	0.4925	0.4925	0.4715	0.4743	0.4781	0.4641								
16	1.8650	0.9390	0.7268	0.5579	0.4848	0.4914	0.4925	0.4965	0.4739	0.4762	0.4638	0.5077								
24	1.2467	0.7256	0.6266	0.4859	0.4848	0.4914	0.4925	0.4965	0.4739	0.4762	0.4638	0.5079								
32	0.9397	0.5580	0.4849	0.4916	0.4929	0.4928	0.4928	0.4969	0.4739	0.4762	0.4639									
48	0.7256	0.3819	0.4938	0.4929	0.4713	0.4744	0.4780	0.4780	0.4639											
64	0.5575	0.4914	0.4938	0.4968	0.4739	0.4769	0.4639													
96	0.4849	0.4932	0.4719	0.4743	0.4781	0.4636														
128	0.3820	0.3551	0.3308	0.3809	0.3125	0.3141														
192	0.4933	0.4744	0.4784	0.4637																
256	0.0401	0.0414	0.0407	0.0412																
384	0.0418	0.0409																		
512	0.0404	0.0415																		
768	0.0413																			
1024	0.0399																			

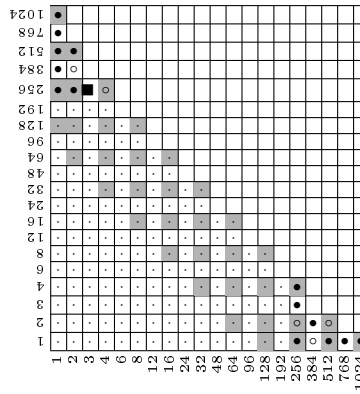


Table203. MB7 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	260.695	126.217	83.481	62.612	41.742	31.308	20.874	15.655	10.438	7.829	5.833	4.376	(3.702)	(3.677)	(3.677)	(3.677)	(3.693)	(3.680)	(3.813)	(3.773)
2	185.394	62.612	41.743	31.315	20.874	15.655	10.438	7.829	5.833	4.376	(3.700)	(3.677)	(3.677)	(3.677)	(3.692)	(3.670)	(3.813)	(3.774)		
3	83.651	41.748	27.828	20.872	13.916	10.439	7.776	5.833	4.390	(3.702)	4.086	(3.677)	(3.678)	(3.692)	(3.744)	(3.812)				
4	62.777	31.316	20.870	13.914	10.437	7.829	5.833	4.379	(3.702)	(3.678)	(3.677)	(3.678)	(3.694)	(3.881)	(3.813)	(3.774)				
6	41.901	20.877	13.917	10.440	7.777	5.833	4.390	(3.698)	(3.678)	(3.678)	(3.691)	(3.692)	(3.745)	(3.812)						
8	31.433	15.664	10.442	7.833	5.833	4.376	(3.700)	(3.677)	(3.678)	(3.678)	(3.691)	(3.692)	(3.745)	(3.812)	(3.775)					
12	20.900	10.447	7.780	5.837	4.931	(3.690)	(3.677)	(3.677)	(3.678)	(3.694)	(3.694)	(3.747)	(3.812)							
16	15.757	7.842	5.834	4.377	(3.690)	(3.677)	(3.677)	(3.677)	(3.678)	(3.694)	(3.694)	(3.747)	(3.812)							
24	10.508	5.836	4.931	(3.700)	4.088	(3.677)	(3.677)	(3.677)	(3.678)	(3.694)	(3.694)	(3.747)	(3.812)							
32	7.825	4.376	(3.690)	(3.679)	(3.679)	(3.680)	(3.680)	(3.680)	(3.681)	(3.747)	(3.814)	(3.773)								
48	5.838	(3.701)	(3.679)	(3.679)	(3.680)	(3.680)	(3.680)	(3.681)	(3.681)	(3.747)	(3.814)									
64	4.378	(3.680)	(3.679)	(3.680)	(3.680)	(3.681)	(3.681)	(3.681)	(3.681)	(3.746)	(3.812)									
96	(3.701)	(3.680)	(3.679)	(3.680)	(3.680)	(3.681)	(3.681)	(3.681)	(3.681)	(3.746)	(3.812)									
128	(3.676)	(3.679)	(3.679)	(3.680)	(3.680)	(3.681)	(3.681)	(3.681)	(3.681)	(3.746)	(3.812)									
192	(3.680)	(3.694)	(3.746)	(3.814)																
256	(3.680)	(3.681)	(3.811)	(3.776)																
384	(3.694)	(3.813)																		
512	(3.812)	(3.774)																		
768	(3.812)																			
1024	(3.775)																			

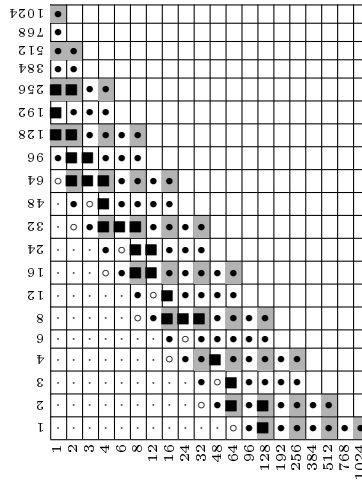


Table204. MB7 Kepler: Increased L1, size 18432×18432, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	7.3949	3.7252	2.4888	1.8772	1.2641	0.9533	0.6458	0.5377	0.3361	0.3271	0.2359	0.1269	0.1555	0.0766	(0.0593)	(0.0586)	(0.0569)	(0.0594)	(0.0587)	(0.0569)
2	3.7223	1.8866	1.2637	0.9522	0.6465	0.5356	0.3328	0.3270	0.2369	0.2280	0.1532	0.1269	0.1555	(0.0586)	(0.0572)	(0.0583)	(0.0571)	(0.0588)		
3	2.4801	1.2661	0.8512	0.6450	0.4377	0.3260	0.2724	0.2375	0.2139	0.1561	0.1625	0.1274	0.1510	(0.0579)	(0.0582)	(0.0591)				
4	1.8725	0.9539	0.6433	0.5377	0.3361	0.2357	0.2137	0.2280	0.1557	0.1537	0.1533	0.1273	0.1478	(0.0580)	(0.0587)	(0.0587)				
6	1.2633	0.6453	0.4394	0.3361	0.2712	0.2380	0.1547	0.1538	0.1323	0.1622	0.1508	0.1416	0.1779	(0.0570)	(0.0568)*					
8	0.9635	0.5375	0.3354	0.3290	0.2371	0.2380	0.1547	0.1538	0.1323	0.1507	0.1495	0.1260								
12	0.6483	0.3346	0.2371	0.2373	0.2123	0.1554	0.1554	0.1527	0.1499	0.1491	0.1780									
16	0.5373	0.3264	0.2372	0.2279	0.1554	0.1548	0.1527	0.1499	0.1491	0.1780										
24	0.3347	0.2384	0.1539	0.1560	0.1639	0.1624	0.1505	0.1492	0.1761	0.2336										
32	0.3302	0.2266	0.1539	0.1546	0.1533	0.1624	0.1505	0.1492	0.1761	0.2336										
48	0.2466	0.1652	0.1297	0.1652	0.1625	0.1601	0.1369	0.1426												
64	0.1650	0.1648	0.1368	0.1259	0.1370	0.1512	0.1369	0.1426												
96	0.0966	0.0954	(0.0588)	(0.0588)	(0.0588)	(0.0571)														
128	0.0958	0.0956	(0.0588)	(0.0588)	(0.0589)	(0.0571)														
256	0.0954	0.0972	0.0955	0.0958																
384	0.0944	0.0965	0.0955	0.0958																
512	0.0945	0.0955																		
768	0.0963																			
1024	(0.0573)																			

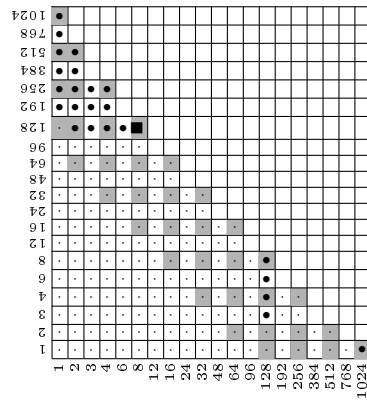


Table205. MB7 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	29.37(10)	14.70(8)	9.81(8)	7.38(9)	4.92(3)	3.70(6)	2.47(5)	1.85(9)	1.24(4)	0.93(7)	0.72(6)	0.55(5)	0.48(4)	0.38(7)	0.40(3)	0.03(7)	0.03(5)	0.03(7)	0.03(5)	0.03(8)
2	14.71(20)	7.37(6)	4.92(3)	3.70(3)	2.47(2)	1.85(9)	1.24(2)	0.93(6)	0.72(6)	0.55(1)	0.48(5)	0.40(8)	0.49(8)	0.38(4)	0.47(1)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)
3	9.82(15)	4.92(6)	3.28(1)	2.47(7)	1.85(8)	1.24(3)	0.95(4)	0.72(5)	0.55(8)	0.48(1)	0.49(5)	0.49(7)	0.47(1)	0.33(7)	0.47(2)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)
4	7.37(18)	3.69(6)	2.47(1)	1.85(7)	1.24(6)	0.94(7)	0.72(5)	0.55(7)	0.48(6)	0.49(6)	0.49(3)	0.49(3)	0.47(1)	0.38(4)	0.46(3)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)
6	4.91(7)	2.47(4)	1.65(2)	1.24(2)	0.95(5)	0.72(6)	0.59(1)	0.48(5)	0.49(1)	0.49(2)	0.47(1)	0.47(1)	0.47(8)	0.31(2)	0.46(3)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)
8	3.70(8)	1.85(8)	1.24(7)	0.93(7)	0.72(5)	0.55(8)	0.49(6)	0.49(1)	0.49(1)	0.47(1)	0.47(1)	0.47(1)	0.46(3)	0.31(4)	0.46(3)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)
12	2.48(0)	1.24(7)	0.95(8)	0.72(5)	0.55(8)	0.48(6)	0.49(1)	0.49(1)	0.47(1)	0.47(1)	0.47(1)	0.46(3)	0.31(4)	0.46(3)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)	0.03(8)
16	1.86(7)	0.93(7)	0.72(2)	0.55(7)	0.48(5)	0.49(1)	0.49(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.46(3)	0.31(4)	0.46(3)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)	0.03(8)
24	1.24(3)	0.72(5)	0.55(2)	0.48(5)	0.49(1)	0.49(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.46(3)	0.31(4)	0.46(3)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)	0.03(8)
32	0.93(8)	0.55(2)	0.48(4)	0.48(9)	0.49(3)	0.49(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.46(3)	0.31(4)	0.46(3)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)	0.03(8)
48	0.72(6)	0.48(5)	0.49(1)	0.49(1)	0.49(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.46(3)	0.31(4)	0.46(3)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)	0.03(8)
64	0.55(8)	0.49(1)	0.49(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.46(3)	0.31(4)	0.46(3)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)	0.03(8)
96	0.48(5)	0.49(3)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.47(1)	0.46(3)	0.31(4)	0.46(3)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)	0.03(8)
128	0.38(1)	0.38(4)	0.47(2)	0.47(0)	0.47(0)	0.47(0)	0.47(0)	0.47(0)	0.47(0)	0.47(0)	0.47(0)	0.46(3)	0.31(4)	0.46(3)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)	0.03(8)
192	0.49(3)	0.47(2)	0.47(0)	0.47(0)	0.47(0)	0.47(0)	0.47(0)	0.47(0)	0.47(0)	0.47(0)	0.47(0)	0.46(3)	0.31(4)	0.46(3)	0.03(8)	0.03(8)	0.03(7)	0.03(7)	0.03(8)	0.03(8)
256	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)
384	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)
512	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)
768	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)	0.03(8)
1024	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)	0.03(7)

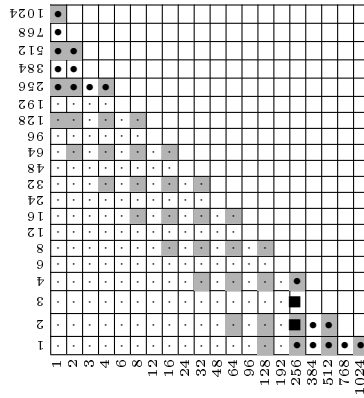


Table206. MB7 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	250.694	125.217	83.482	62.613	41.744	31.309	20.880	15.659	10.438	7.830	5.833	4.378	3.698	3.481	3.670	3.670	3.694	3.670	3.670	3.670	3.670
2	195.390	92.610	41.744	31.309	20.873	15.655	10.439	7.829	5.831	4.380	3.693	3.679	3.679	3.678	3.693	3.670	3.693	3.670	3.670	3.670	3.670
3	83.692	41.742	27.830	20.873	13.916	10.438	7.774	5.833	4.380	3.699	4.089	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679
4	62.770	31.307	20.872	15.655	10.438	7.829	5.833	4.376	3.701	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679
6	41.889	20.878	13.918	10.440	7.778	5.833	4.380	3.699	4.087	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679
8	31.433	15.664	10.441	7.830	5.834	4.376	3.703	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679
12	21.008	10.455	7.783	5.835	4.932	3.701	3.678	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679
16	15.748	7.841	5.835	4.378	3.701	3.678	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679	3.679
24	10.507	5.838	4.932	3.700	3.700	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681
32	7.870	4.380	4.080	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680
48	5.839	3.702	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680
64	4.380	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680
96	3.697	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681	3.681
128	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680	3.680
192	3.681	3.695	3.747	3.816	3.815	3.815	3.815	3.815	3.815	3.815	3.815	3.815	3.815	3.815	3.815	3.815	3.815	3.815	3.815	3.815	3.815
256	3.680	3.682	3.813	3.777																	
384	3.695	3.816																			
512	3.682	3.774																			
768	3.813																				
1024	3.776																				

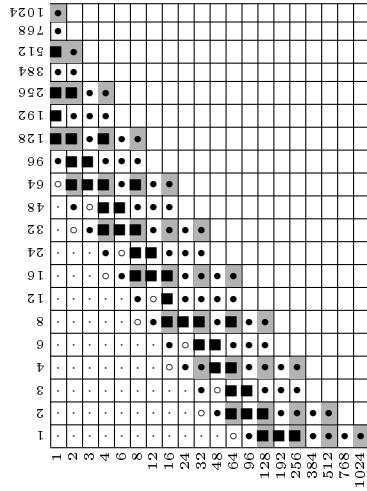


Table 207. MB7 Kepler: Without L1, size 18432×18432, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.5423	0.3063	0.2266	0.1883	0.1474	0.1264	0.1094	0.0991	0.0840	0.0765	0.0645	0.0444	0.0443	0.0591	0.0579	0.0588	0.0588	0.0578	0.0588	0.0588	0.0596
2	0.3084	0.1903	0.1493	0.1136	0.0987	0.0842	0.0849	0.0759	0.0641	0.0586	0.0447	0.0444	0.0443	0.0575	0.0587	0.0581	0.0587	0.0589			
3	0.2432	0.1581	0.1262	0.1136	0.0987	0.0842	0.0849	0.0638	0.0437	0.0447	0.0449	0.0444	0.0444	0.0580	0.0581	0.0587	0.0587	0.0589			
4	0.1920	0.1321	0.1093	0.1025	0.0854	0.0765	0.0839	0.0601	0.0419	0.0447	0.0449	0.0444	0.0444	0.0580	0.0581	0.0587	0.0587	0.0589			
6	0.1837	0.1136	0.0934	0.0828	0.0636	0.0644	0.0460	0.0430	0.0446	0.0450	0.0446	0.0440	0.0447	0.0588	0.0583	0.0583	0.0583	0.0583			
8	0.1332	0.1036	0.0845	0.0765	0.0651	0.0596	0.0446	0.0431	0.0446	0.0449	0.0442	0.0442	0.0455	0.0578							
12	0.1021	0.0832	0.0660	0.0644	0.0454	0.0445	0.0446	0.0441	0.0447	0.0442	0.0444	0.0442	0.0442								
16	0.1061	0.0796	0.0681	0.0619	0.0450	0.0444	0.0446	0.0447	0.0447	0.0447	0.0447	0.0447	0.0447								
24	0.0767	0.0628	0.0481	0.0450	0.0444	0.0447	0.0446	0.0447	0.0447	0.0447	0.0447	0.0447	0.0447								
32	0.0784	0.0588	0.0445	0.0445	0.0452	0.0451	0.0445	0.0445	0.0445	0.0445	0.0445	0.0445	0.0445								
48	0.0656	0.0450	0.0452	0.0452	0.0451	0.0446	0.0447	0.0446	0.0446	0.0446	0.0446	0.0446	0.0446								
64	0.0458	0.0449	0.0452	0.0451	0.0445	0.0444	0.0446	0.0446	0.0446	0.0446	0.0446	0.0446	0.0446								
96	0.0467	0.0449	0.0449	0.0449	0.0450	0.0452	0.0446	0.0446	0.0446	0.0446	0.0446	0.0446	0.0446								
128	0.0586	0.0588	0.0573	0.0589	0.0590	0.0592															
192	0.0589	0.0583	0.0571	0.0587																	
256	0.0586	0.0596	0.0595	0.0584																	
384	0.0588	0.0588																			
512	0.0569	0.0576																			
768	0.0580																				
1024	0.0586																				

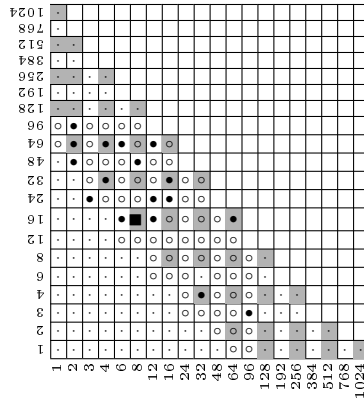


Table 208. MB8 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.7989	4.9271	3.2066	2.4920	1.6840	1.2705	0.8658	0.6578	0.4550	0.3513	0.2483	0.2039	0.1304	0.0892	0.1301	0.0381	0.0366	0.0374	0.0375	0.0365
2	4.9312	2.4958	1.6839	1.2715	0.8656	0.6588	0.4559	0.3514	0.2483	0.2038	0.1305	0.1286	0.1298	0.0892	0.1309	0.0376	0.0387	0.0375		
3	3.3746	1.7217	1.1819	0.8973	0.6060	0.4378	0.3253	0.2450	0.1707	0.1305	0.1316	0.1278	0.1316	0.0869	0.1315	0.0381				
4	2.4979	1.2745	0.8675	0.6592	0.4560	0.3516	0.2485	0.2038	0.1306	0.1277	0.1279	0.1278	0.1316	0.0924	0.1315	0.0376				
6	1.7553	0.9082	0.6141	0.4921	0.3270	0.2477	0.1716	0.1303	0.1310	0.1294	0.1298	0.1299	0.1306	0.0904						
8	1.2780	0.6628	0.4578	0.3521	0.2494	0.2043	0.1309	0.1291	0.1294	0.1296	0.1298	0.1298	0.1314	0.0926						
12	0.9398	0.4988	0.3293	0.2489	0.1728	0.1305	0.1317	0.1292	0.1298	0.1301	0.1298	0.1315	0.1337							
16	0.6664	0.3554	0.2502	0.2052	0.1312	0.1286	0.1286	0.1281	0.1311	0.1306	0.1315	0.1337								
24	0.5161	0.2497	0.1740	0.1313	0.1317	0.1308	0.1293	0.1297	0.1312	0.1312	0.1313									
32	0.3601	0.2066	0.1324	0.1299	0.1295	0.1301	0.1293	0.1303												
48	0.2848	0.1337	0.1329	0.1308	0.1311	0.1308	0.1323	0.1322												
64	0.2097	0.1315	0.1327	0.1308	0.1313	0.1309	0.1329	0.1337												
96	0.1342	0.0911	0.1321	0.1314	0.1321	0.1312														
128	0.0921	0.0911	0.0908	0.0904	0.0898	0.0910														
192	0.1336	0.1323	0.1318	0.1315																
256	0.0380	0.0374	0.0374	0.0374																
384	0.0383	0.0381																		
512	0.0377	0.0376																		
768	0.0393																			
1024	0.0378																			

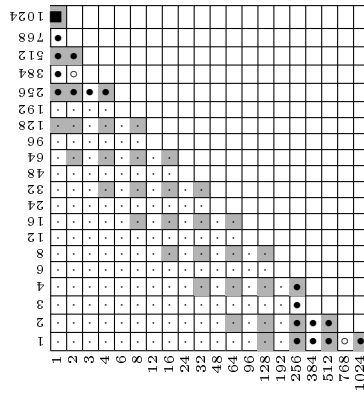
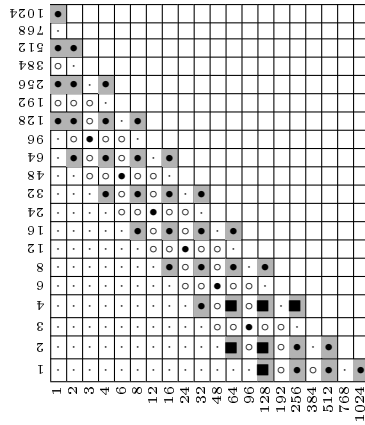


Table209. MB8 Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	577183	287,929	192,496	144,597	95,926	71,933	47,980	35,985	24,010	17,997	12,001	9,016	6,030	(4,546)	4,828	(4,561)	4,847	(4,580)	6,046	(4,550)
2	287,938	143,859	95,962	71,951	47,982	35,986	24,003	18,000	12,010	9,005	6,008	(4,549)	4,825	(4,561)	4,857	(4,570)	6,043			
3	193,033	96,473	64,299	48,279	32,170	24,137	15,995	12,009	8,040	6,012	5,352	4,822	(4,614)	4,843	(4,579)	6,044	(4,550)			
4	144,477	72,052	48,000	35,994	24,004	18,038	12,006	9,005	6,010	(4,547)	4,828	(4,563)	4,843	(4,579)	6,044	(4,550)				
6	97,062	48,566	32,325	24,261	16,024	12,002	8,012	6,007	5,345	4,837	(4,615)	4,840	5,386	6,038						
8	72,069	35,995	24,009	18,027	12,010	9,009	5,347	4,822	4,827	(4,612)	4,841	5,380	6,041							
12	49,063	24,511	15,984	11,992	8,015	6,029	5,347	4,822	(4,612)	4,841	5,380	6,041								
16	36,068	18,025	12,018	9,012	6,012	(4,566)	4,828	(4,563)	4,845	(4,581)	6,045	(4,551)								
24	25,112	11,976	8,043	6,010	5,354	4,818	(4,604)	4,829	5,370	6,047										
32	18,068	9,048	6,024	(4,551)	4,829	(4,564)	4,852	(4,581)	6,045	(4,551)										
48	11,958	6,006	5,357	4,816	(4,592)	4,824	5,349	6,017												
64	9,021	(4,595)	4,805	(4,592)*	4,817	(4,554)	6,042	(4,579)												
96	6,006	4,813	(4,604)	4,816	5,375	6,011														
128	(4,629)	(4,594)	4,827	(4,628)	6,007	(4,547)														
192	4,817	4,837	5,373	5,998																
256	(4,546)	(4,584)	6,006	(4,535)																
384	4,834	6,056																		
512	(4,546)	(4,563)																		
768	6,048																			
1024	(4,564)																			

Table 210. MB8 Kepler: Normal L1, size 6144×6144, seconds.



Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.5387	0.3020	0.2233	0.1843	0.1451	0.1243	0.1041	0.0948	0.0814	0.0673	0.0607	(0.0409)	(0.0406)	0.0566	0.0566	0.0563	0.0564	0.0566	0.0582	0.0566
2	0.3030	0.1845	0.1449	0.1251	0.1052	0.0961	0.0811	0.0681	0.0598	0.0480	(0.0407)	0.0412	(0.0410)	0.0565	0.0567	0.0566	0.0570	0.0571		
3	0.2314	0.1487	0.1206	0.1051	0.0894	0.0740	0.0610	0.0502	0.0412	(0.0408)	0.0413	(0.0390)*	(0.0407)	0.0576	0.0571	0.0568				
4	0.1875	0.1268	0.1055	0.0975	0.0812	0.0705	0.0603	0.0502	0.0411	(0.0407)	(0.0407)	(0.0409)	(0.0409)	0.0571	0.0567	0.0576				
6	0.1516	0.1063	0.0912	0.0717	0.0615	0.0527	0.0418	0.0412	(0.0408)	(0.0408)	(0.0408)	(0.0403)	(0.0408)	0.0571	0.0567	0.0576				
8	0.1298	0.0977	0.0818	0.0724	0.0609	0.0520	0.0412	(0.0409)	(0.0408)	(0.0405)	(0.0405)	(0.0404)	(0.0404)	0.0565						
12	0.1100	0.0752	0.0619	0.0583	(0.0408)	0.0411	0.0414	(0.0409)	(0.0407)	(0.0409)	0.0412	(0.0407)	0.0413	0.0565						
16	0.0994	0.0749	0.0612	0.0568	(0.0408)	0.0415	0.0412	(0.0408)	(0.0407)	(0.0409)	(0.0404)	(0.0404)	0.0413	0.0565						
24	0.0780	0.0615	0.0423	(0.0401)	0.0415	(0.0402)	0.0411	(0.0408)	(0.0407)	(0.0408)	0.0428	(0.0409)	0.0413	0.0565						
32	0.0735	0.0565	0.0419	0.0418	0.0414	0.0413	(0.0408)	(0.0406)	0.0417	0.0430										
48	0.0602	0.0417	0.0418	(0.0409)	0.0412	(0.0408)	(0.0405)	(0.0405)	0.0412	0.0430										
64	(0.0409)	0.0416	0.0413	(0.0408)	(0.0408)	(0.0397)	0.0419													
96	0.0424	0.0413	0.0415	0.0412	0.0412	0.0419														
128	0.0567	0.0568	0.0572	0.0570	0.0567	0.0567	0.0565													
192	0.0565	0.0563	0.0588	0.0567																
256	0.0568	0.0572	0.0572	0.0562																
384	0.0573	0.0568																		
512	0.0570	0.0575																		
768	0.0569																			
1024	0.0564																			

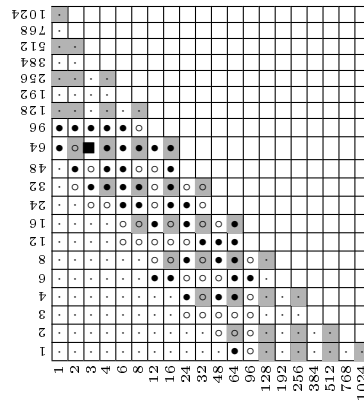


Table 211. MB8 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	3.8891	2.0110	1.4034	1.0982	0.7935	0.6399	0.4885	0.4115	0.3338	0.2606	0.2483	0.1857	0.1307	0.0899	0.1303	0.0406	0.0424	0.0424	0.0391	0.0405
2	2.0155	1.1026	0.7975	0.6412	0.4903	0.4137	0.3348	0.2914	0.2484	0.1846	0.1307	0.1278	0.1279	0.0908	0.1279	0.0413	0.0405	0.0405	0.0405	0.0405
3	1.4885	0.8225	0.6071	0.5050	0.3948	0.3431	0.2759	0.2316	0.1720	0.1306	0.1318	0.1281	0.1280	0.0904	0.1309	0.0409	0.0405	0.0405	0.0405	0.0405
4	1.1077	0.6472	0.4928	0.4144	0.3368	0.2924	0.2485	0.1861	0.1307	0.1277	0.1280	0.1284	0.1301	0.0924	0.1314	0.0409	0.0405	0.0405	0.0405	0.0405
6	0.8835	0.5203	0.4082	0.3479	0.2775	0.2317	0.1723	0.1304	0.1311	0.1277	0.1284	0.1305	0.1312	0.0904	0.1315	0.0926	0.0405	0.0405	0.0405	0.0405
8	0.6848	0.4206	0.3026	0.2631	0.2492	0.1892	0.1308	0.1284	0.1202	0.1284	0.1277	0.1307	0.1315	0.0926	0.1315	0.0926	0.0405	0.0405	0.0405	0.0405
12	0.5800	0.3670	0.2625	0.2317	0.1728	0.1315	0.1316	0.1274	0.1265	0.1274	0.1315	0.1314	0.1315	0.0926	0.1315	0.0926	0.0405	0.0405	0.0405	0.0405
16	0.4970	0.2968	0.2500	0.1951	0.1312	0.1284	0.1245	0.1224	0.1305	0.1282	0.1315	0.1315	0.1315	0.0926	0.1315	0.0926	0.0405	0.0405	0.0405	0.0405
24	0.4157	0.2292	0.1730	0.1320	0.1322	0.1279	0.1265	0.1280	0.1305	0.1282	0.1315	0.1315	0.1315	0.0926	0.1315	0.0926	0.0405	0.0405	0.0405	0.0405
32	0.3615	0.1985	0.1320	0.1291	0.1253	0.1286	0.1309	0.1286	0.1309	0.1286	0.1315	0.1315	0.1315	0.0926	0.1315	0.0926	0.0405	0.0405	0.0405	0.0405
48	0.2870	0.1321	0.1324	0.1298	0.1306	0.1291	0.1311	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316
64	0.1881	0.1982	0.1273	0.1277	0.1306	0.1291	0.1311	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316	0.1316
96	0.1324	0.1296	0.1294	0.1299	0.1292	0.1285	0.1335	0.1287	0.1335	0.1287	0.1335	0.1287	0.1335	0.1287	0.1335	0.1287	0.1335	0.1287	0.1335	0.1287
128	0.0919	0.0909	0.0901	0.0904	0.0897	0.0908	0.0908	0.0908	0.0908	0.0908	0.0908	0.0908	0.0908	0.0908	0.0908	0.0908	0.0908	0.0908	0.0908	0.0908
192	0.1347	0.1320	0.1323	0.1312	0.1312	0.1312	0.1312	0.1312	0.1312	0.1312	0.1312	0.1312	0.1312	0.1312	0.1312	0.1312	0.1312	0.1312	0.1312	0.1312
256	0.0410	0.0403	0.0403	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*	0.0392*
384	0.0410	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406	0.0406
512	0.0413	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404	0.0404
768	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401	0.0401
1,024	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395	0.0395

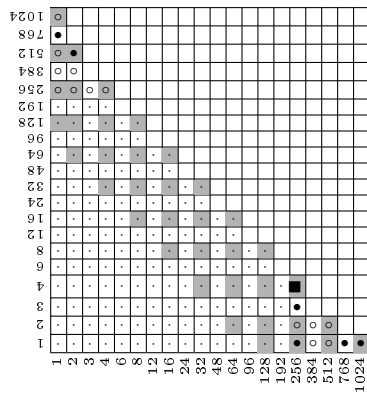


Table 212. MB8 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	578.297	280.482	192.767	144.585	96.328	72.151	48.113	36.229	24.149	18.115	12.035	9.040	6.023	(4.554)	4.832	(4.559)	4.852	(4.589)	6.062	(4.561)
2	288.857	144.283	96.187	72.189	48.125	36.120	24.108	18.115	12.084	9.037	6.035	(4.559)	4.835	(4.554)	4.852	(4.587)	6.055	(4.554)		
3	193.612	96.772	64.518	48.528	32.303	24.272	16.026	12.024	8.021	6.017	5.388	4.827	(4.625)	4.847	5.393	6.056				
4	144.582	72.276	48.205	36.207	24.159	18.115	12.051	9.044	6.026	(4.558)	4.833	(4.569)	4.855	(4.591)	6.062	(4.559)				
6	97.438	48.796	32.526	24.383	16.043	12.054	8.034	6.026	4.835	4.836	(4.621)	4.819	5.398	6.061						
8	72.431	36.192	24.114	18.114	12.033	9.023	6.032	4.834	(4.557)	(4.614)	4.851	5.392	6.057							
12	49.370	24.674	16.029	12.033	9.023	6.035	4.833	4.834	(4.567)	(4.567)	4.854	5.384	6.054							
16	36.226	18.094	12.022	9.022	6.027	5.358	4.826	4.826	(4.600)	(4.600)	4.845	5.384	6.054							
24	25.158	12.046	8.053	6.042	(4.557)	4.836	(4.573)	4.855	6.044											
32	18.104	9.050	6.042	4.827	(4.602)	4.833	5.375	6.044												
48	12.046	6.050	5.367	4.827	(4.594)*	4.828	(4.569)	6.045	(4.589)											
64	9.059	(4.581)	4.837	(4.605)	4.826	5.369	6.042													
96	6.037	4.825	(4.599)	4.842	(4.530)	6.049	(4.556)													
128	(4.520)	(4.520)	4.842	(4.530)	6.022															
192	4.841	4.828	5.354	6.022																
256	(4.547)	(4.534)	6.020	(4.528)																
384	4.838	6.035																		
512	(4.548)	(4.533)																		
768	6.063																			
1024	(4.559)																			

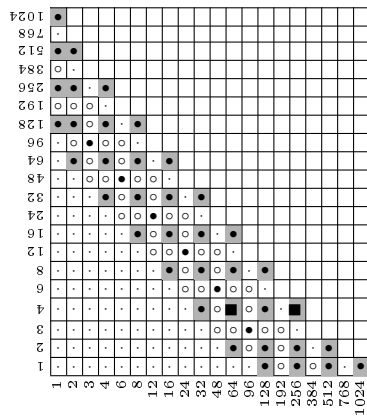


Table213. MB8 Kepler: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	1.4537	0.7429	0.5019	0.3822	0.2630	0.2041	0.1433	0.1218	0.0838	0.0828	0.0630	(0.0435)	(0.0435)	0.0582	0.0568	0.0580	0.0556	0.0591	0.0571	0.0564	
2	0.7440	0.3843	0.2630	0.2027	0.1428	0.1224	0.0835	0.0827	0.0634	0.0628	(0.0436)	(0.0437)	(0.0440)	0.0597	0.0586	0.0592	0.0556				
3	0.5113	0.2708	0.1869	0.1495	0.1068	0.0873	0.0633	0.0654	0.0463	0.0463	0.0461	(0.0437)	(0.0441)	0.0581	0.0589	0.0595					
4	0.3851	0.2051	0.1448	0.1207	0.0831	0.0811	0.0635	0.0627	(0.0437)	(0.0440)	(0.0438)	(0.0437)	(0.0442)	0.0596	0.0596	0.0598					
6	0.2712	0.1503	0.1056	0.0896	0.0673	0.0637	0.0453	(0.0422)	(0.0428)	(0.0425)	(0.0435)	(0.0437)	(0.0442)	0.0582							
8	0.2044	0.1219	0.0839	0.0832	0.0639	0.0612	(0.0422)	(0.0428)	(0.0425)	(0.0437)	(0.0435)	(0.0437)	(0.0442)	0.0585							
12	0.1522	0.0887	0.0666	0.0659	0.0452	(0.0434)	0.0469	(0.0438)	0.0445	(0.0433)	(0.0435)	(0.0439)	(0.0443)								
16	0.1241	0.0828	0.0644	0.0628	(0.0422)	(0.0422)	(0.0436)	0.0444	(0.0433)	(0.0441)	0.0444	(0.0436)									
24	0.0918	0.0649	0.0474	(0.0440)	0.0467	(0.0422)*	(0.0438)	(0.0435)	(0.0448)	(0.0441)	0.0445										
32	0.0867	0.0643	0.0450	0.0444	(0.0443)	0.0446	(0.0423)	(0.0441)	(0.0441)	0.0451											
48	0.0690	0.0452	0.0475	0.0446	(0.0442)	(0.0437)	(0.0437)	(0.0442)													
64	0.0452	0.0444	(0.0433)	(0.0437)	(0.0436)	(0.0437)	(0.0438)	(0.0432)													
96	0.0462	0.0450	(0.0431)	0.0436		0.0582															
128	0.0956	0.0945	0.0944	0.0942	0.0951	0.0986															
192	0.0952	0.0945	0.1226	0.0948																	
256	0.0950	0.0593	0.0582																		
384	0.0568	0.0589																			
512	0.0573	0.0587																			
768	0.0587																				
1024	0.0585																				

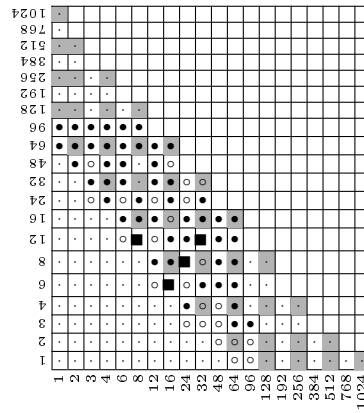


Table214. MB8 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	11.29281	5.6637	3.7696	2.8387	1.9059	1.4310	0.9569	0.7192	0.4820	0.3634	0.2460	0.2020	0.1279	0.0874	0.1275	0.0970	0.0353	0.0377	0.0378	0.0373	
2	5.6680	2.8414	1.9076	1.4324	0.9575	0.7197	0.4824	0.3635	0.2461	0.2019	0.1279	0.1268	0.1275	0.0873	0.1284	0.0970	0.0350	0.0358			
3	3.8138	1.9292	1.2873	0.9820	0.6470	0.5050	0.3326	0.2570	0.1737	0.1279	0.1321	0.1279	0.1269	0.0885	0.1284	0.0981					
4	2.8452	1.4341	0.9588	0.7207	0.4830	0.3640	0.2432	0.2023	0.1282	0.1268	0.1274	0.1271	0.1283	0.0878	0.1287	0.0980					
6	1.9514	0.9848	0.6553	0.5064	0.3385	0.2572	0.1750	0.1281	0.1289	0.1276	0.1278	0.1284	0.1283	0.0881							
8	1.4385	0.7230	0.4846	0.3651	0.2467	0.2035	0.1384	0.1272	0.1275	0.1270	0.1284	0.1285	0.1284	0.0898							
12	0.9287	0.5090	0.3466	0.2691	0.1782	0.1282	0.1384	0.1274	0.1277	0.1280	0.1285	0.1286	0.1285								
16	0.7327	0.3700	0.2490	0.2031	0.1294	0.1286	0.1276	0.1271	0.1284	0.1285	0.1286	0.1285	0.1286								
24	0.5284	0.2618	0.1834	0.1583	0.1295	0.1277	0.1279	0.1283	0.1286	0.1286	0.1286	0.1286	0.1286								
32	0.3820	0.2068	0.1317	0.1389	0.1280	0.1272	0.1284	0.1286	0.1286	0.1286	0.1286	0.1286	0.1286								
48	0.2671	0.1455	0.1459	0.1305	0.1430	0.1428	0.1512	0.1448													
64	0.2218	0.1434	0.1239	0.1283	0.1291	0.1291	0.1286	0.1282													
96	0.1409	0.1301	0.1307	0.1289	0.1295	0.1296															
128	0.0999	0.0892	0.0893	0.0884	0.0881	0.0895															
192	0.1432	0.1310	0.1311	0.1292																	
256	0.0387	0.0398																			
384	0.0387	0.0381	0.0399	0.0379																	
512	0.0375	0.0370																			
768	0.0375	0.0370																			
1024	0.0368*																				

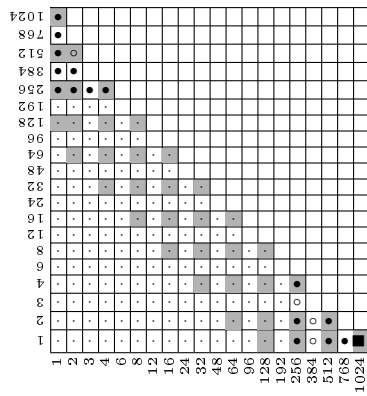


Table 215. MB8 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024	
1	556,283	277,168	191,903	144,485	92,350	69,260	46,184	34,641	23,104	17,340	12,010	9,011	6,917	5,734	5,826	5,792	5,849	5,744	6,931	5,748	
2	277,176	138,498	92,343	69,284	46,186	34,645	23,112	17,355	12,032	9,015	6,917	5,737	5,838	5,736	5,836	5,744	6,931	5,748			
3	186,486	93,141	62,108	46,586	31,075	23,323	16,087	12,084	9,211	6,793	5,811	5,840	5,840	5,873	6,277	6,816					
4	138,803	69,331	46,237	34,690	23,150	17,309	12,064	9,035	6,920	5,738	5,812	5,817	5,799	5,848	6,277	6,816					
6	94,262	47,012	31,347	23,524	16,179	12,131	9,208	6,725	6,533	5,812	5,811	5,823	6,214	6,744							
8	69,453	34,664	23,124	17,355	12,036	9,028	6,916	5,736	5,805	5,792	5,809	5,744	6,931	5,749							
12	49,250	23,918	16,314	12,250	9,211	6,540	6,442	5,811	5,618	5,792	6,095	6,565									
16	35,179	12,554	12,309	9,384	7,302	6,158	5,994	6,188	6,027	6,117	6,697	5,955									
24	25,277	12,369	8,452	6,578	6,254	5,449	5,269	5,475	5,954												
32	18,351	6,506	6,033	5,769	5,290	5,747	5,311	5,783													
48	12,029	6,348	5,784	5,331	5,262	5,349	5,762	6,291													
64	9,186	4,788	5,201	4,690	4,995	4,686	5,833	4,694													
96	6,272	5,066	4,630	4,732	5,202	5,820															
128	4,698	(4,506)	4,701	(4,364)*	5,807	(4,368)															
192	4,891	4,706	5,229	5,816																	
256	4,612	(4,423)	5,388	(4,403)																	
384	4,878	5,896																			
512	4,596	(4,457)																			
768	6,068																				
1,024	4,618																				

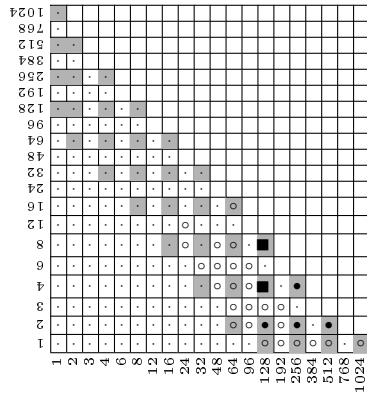


Table 216. MB8 Kepler: Without L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.5511	0.2888	0.1997	0.1565	0.1122	0.0902	0.0679	0.0577	0.0442	0.0443	0.0390	(0.0315)	0.0328	0.0584	0.0580	0.0580	0.0557	0.0586	0.0587	0.0584	
2	0.4375	0.2289	0.1619	0.1274	0.0928	0.0814	0.0569	0.0580	0.0472	0.0388	0.0368	(0.0315)	0.0322	0.0583	0.0588	0.0588	0.0586	0.0570			
3	0.3840	0.1944	0.1372	0.1095	0.0798	0.0668	0.0521	0.0470	0.0434	0.0331	0.0373	(0.03017)	0.0314	0.0572	0.0566	0.0570					
4	0.3279	0.1764	0.1260	0.1079	0.0748	0.0737	0.0527	0.0471	0.0364	0.0288	0.0362	(0.0314)	0.0323	0.0590	0.0580	0.0587					
6	0.2906	0.1580	0.1135	0.0910	0.0693	0.0585	0.0468	0.0382	0.0387	0.0333	0.0365	(0.0322)	0.0320	0.0590	0.0580	0.0587					
8	0.2714	0.1628	0.1076	0.1071	0.0694	0.0583	0.0436	0.0383	0.0349	0.0339	0.0362	(0.0322)	0.0333	0.0598							
12	0.2549	0.1399	0.0984	0.802	0.0530	0.0422	0.0433	0.0375	0.0372	0.0323	0.0360	(0.0316)									
16	0.2700	0.1716	0.0981	0.0794	0.0461	0.0426	0.0427	0.0442	0.0374	0.0355	0.0350	(0.0317)									
24	0.2368	0.1223	0.0751	0.0544	0.0508	0.0427	0.0433	0.0390	0.0371	0.0354	0.0361	(0.0317)									
32	0.3016	0.1222	0.0672	0.0540	0.0483	0.0410	0.0442	0.0444	0.0421	0.0354	0.0360	(0.0316)									
48	0.2175	0.0915	0.0752	0.0540	0.0487	0.0422	0.0434	0.0408													
64	0.1172	0.0738	0.0638	0.0516	0.0461	0.0414	0.0398	0.0329													
96	0.1832	0.0928	0.0687	0.0545	0.0478	0.0468															
128	0.0897	0.0588	0.0585	0.0581	0.0581	0.0582															
192	0.0590	0.0590	0.0587	0.0598																	
256	0.0600	0.0594	0.0587	0.0589																	
384	0.0586	0.0582																			
512	0.0604	0.0600																			
768	0.0586																				
1024	0.0601																				

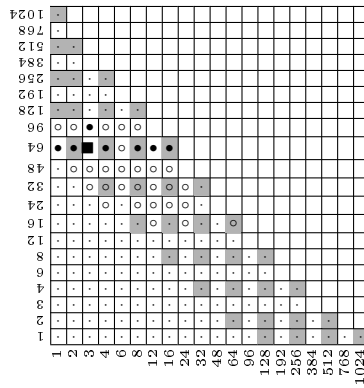


Table217. MB9 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	4.0317	2.0533	1.3780	1.0321	0.6961	0.4211	0.2649	0.1794	0.1360	0.1012	0.0815	0.0713	0.0518	0.0518	0.0650	0.0896	0.0350	0.0395	0.0377	0.0383	
2	3.2277	1.6280	1.0883	0.8184	0.5479	0.3126	0.2099	0.1577	0.1216	0.0967	0.0789	0.0705	0.0521	0.0521	0.0682	0.0969	0.0380	0.0379			
3	2.6676	1.3456	0.8906	0.6769	0.4336	0.2666	0.1667	0.1304	0.0959	0.0895	0.0711	0.0684	0.0494	0.0494	0.0693	0.0377					
4	2.3889	1.2038	0.8055	0.6058	0.4063	0.2685	0.1799	0.1230	0.1158	0.0759	0.0879	0.0715	0.0686	0.0552	0.0686	0.0892					
6	2.1105	1.0616	0.7112	0.5351	0.3667	0.2118	0.1588	0.1129	0.1191	0.0728	0.0892	0.0685	0.0695	0.0481							
8	1.9720	0.9920	0.6642	0.4999	0.2805	0.1768	0.1307	0.1159	0.1083	0.0718	0.0850	0.0758	0.0686	0.0472							
12	1.8340	0.9221	0.5848	0.3431	0.2138	0.1566	0.1374	0.1184	0.1129	0.0765	0.0988	0.0701									
16	1.7652	0.8872	0.4492	0.2687	0.2365	0.1889	0.1435	0.1311	0.1188	0.0797	0.0930	0.0798									
24	1.6675	0.8108	0.4164	0.3616	0.2692	0.1984	0.1642	0.1183													
32	1.6332	0.5386	0.5017	0.4809	0.3065	0.2046	0.1569	0.1218													
48	1.2859	0.9180	0.6206	0.5168	0.3614	0.2054	0.1864	0.1202													
64	1.1932	1.0692	0.6923	0.4986	0.3735	0.2640	0.1389	0.1305													
96	2.0964	1.1599	0.8280	0.5209	0.3500	0.1960															
128	1.6882	0.7629	0.4679	0.4086	0.2101	0.1713															
192	2.6528	1.4259	0.9837	0.5711																	
256	0.0380	0.0380	0.0380	0.0381	0.0372																
384	0.0385	0.0392																			
512	0.0374	0.0380																			
768	0.0374	0.0376																			
1024	0.0376	0.0376																			

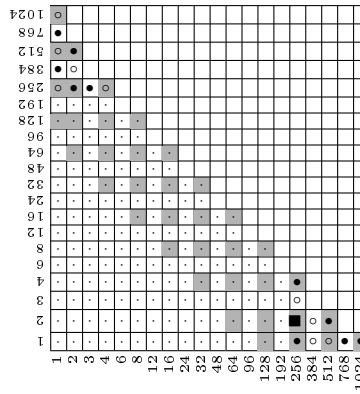


Table 218. MB9 Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	119.258	59.491	39.720	29.848	19.963	15.025	10.086	7.611	5.142	3.868	2.708	1.999	1.715	1.715	1.714	1.707*	1.722	1.747	1.789	1.841
2	96.994	48.430	32.319	24.260	18.204	12.176	8.131	6.130	4.284	2.924	2.303	1.728	1.717	1.718	1.726	1.720	1.798	1.841	1.841	1.841
3	80.305	40.088	26.752	20.081	13.411	10.076	6.913	4.244	3.702	2.784	2.278	1.809	1.732	1.732	1.743	1.799	1.798	1.765	1.765	1.765
4	71.947	35.928	23.988	17.990	12.015	9.018	5.178	3.236	3.288	2.336	2.327	1.841	1.745	1.734	1.803	1.775				
6	63.602	31.757	21.185	15.800	10.816	6.171	6.146	3.437	3.366	1.841	2.357	1.799	1.784	1.806						
8	59.416	29.677	19.796	14.857	8.110	4.684	6.026	3.470	3.433	1.886	2.357	1.841	1.815	1.781						
12	55.256	27.500	20.240	10.086	13.768	8.599	5.442	3.553	3.540	1.896	2.469	1.839								
16	53.093	26.557	27.728	7.572	16.055	10.168	5.982	3.606	3.547	1.896	2.595	1.849								
24	50.200	49.065	35.011	25.990	13.735	9.163	7.209	3.636	3.550	1.949										
32	50.200	49.065	35.011	25.990	13.735	9.163	7.209	3.636	3.550	1.949										
48	104.528	51.670	29.288	23.459	18.473	10.231	6.202	3.697	3.575	1.975										
64	119.035	59.536	32.884	26.982	18.080	10.618	5.850	3.787												
96	147.640	58.763	39.194	25.792	18.971	9.264														
128	169.286	80.929	34.380	26.728	15.802	10.736														
192	139.787	68.070	33.806	22.598																
256	142.013	98.128	33.078	27.148																
384	128.480	55.388																		
512	164.406	104.128																		
768	179.857																			
1024	219.887																			

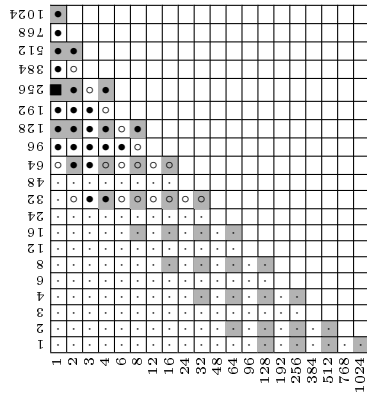


Table219. MB9 Kepler: Normal L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.5470	0.2843	0.1974	0.1432	0.1082	0.0867	0.0647	0.0569	0.0427	0.0422	0.0351	(0.0282)	0.0206	0.0576	0.0571	0.0576	0.0566	0.0585	0.0579	0.0570
2	0.4332	0.2268	0.1584	0.1236	0.0894	0.0781	0.0548	0.0557	0.0439	0.0353	0.0328	(0.0276)	0.0204	0.0572	0.0564	0.0578	0.0577			
3	0.3605	0.1909	0.1339	0.1052	0.0772	0.0630	0.0501	0.0437	0.0389	0.0296	0.0333	(0.0280)	(0.0284)	0.0571	0.0569	0.0569				
4	0.3235	0.1721	0.1214	0.1052	0.0717	0.0700	0.0392	0.0433	0.0348	0.0285	0.0329	(0.0277)	0.0204	0.0570	0.0572	0.0587				
6	0.2873	0.1539	0.1096	0.1034	0.0667	0.0555	0.0397	0.0344	0.0351	0.0291	0.0327	(0.0276)	0.0289	0.0569						
8	0.2689	0.1590	0.1036	0.1033	0.0670	0.0539	0.0387	0.0340	0.0357	0.0300	0.0321	(0.0275)	0.0310	0.0572						
12	0.2516	0.1348	0.0943	0.0769	0.0468	0.0386	0.0388	0.0341	0.0337	0.0303	0.0321	(0.0280)								
16	0.2365	0.1679	0.0939	0.0760	0.0440	0.0388	0.0383	0.0347	0.0333	0.0333	0.0314									
24	0.2230	0.1206	0.0622	0.0498	0.0454	0.0371	0.0387	0.0336	0.0364	0.0338										
32	0.2132	0.0863	0.0665	0.0503	0.0445	0.0384	0.0383	0.0380	0.0363											
48	0.1132	0.0696	0.0593	0.0479	0.0439	0.0378	0.0378	0.0378	0.0322											
64	0.1876	0.0847	0.0624	0.0498	0.0444	0.0400														
96	0.0572	0.0561	0.0564	0.0566	0.0564	0.0563														
128	0.0564	0.0572	0.0562	0.0583																
192	0.0568	0.0572	0.0572	0.0567																
256	0.0571	0.0582																		
384	0.0580	0.0570																		
512	0.0569																			
768	0.0570																			
1024																				

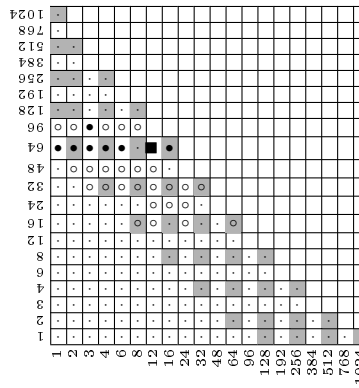


Table 220. MB9 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	4.0369	2.0531	1.3770	1.0320	0.6962	0.5221	0.3509	0.2651	0.1793	0.1361	0.1009	0.0813	0.0691	0.0517	0.0388	0.0246	0.0161	0.0091	0.0040	0.0011
2	3.2224	1.6276	1.0883	0.8181	0.5482	0.4127	0.2776	0.2098	0.1546	0.1161	0.0868	0.0689	0.0522	0.0384	0.0256	0.0161	0.0091	0.0040	0.0011	
3	2.6664	1.3476	0.8906	0.6767	0.4589	0.3419	0.2365	0.1545	0.1222	0.0708	0.0584	0.0416	0.0256	0.0161	0.0091	0.0040	0.0011			
4	2.3891	1.2041	0.8053	0.6058	0.4084	0.3055	0.1799	0.1222	0.1027	0.0604	0.0584	0.0384	0.0256	0.0161	0.0091	0.0040	0.0011			
6	2.1104	1.0628	0.7111	0.5353	0.3670	0.2120	0.1507	0.1028	0.1051	0.0707	0.0834	0.0684	0.0396	0.0482	0.0256	0.0161	0.0091	0.0040	0.0011	
8	1.9710	0.9222	0.6843	0.4909	0.2772	0.1767	0.1224	0.1044	0.1035	0.0718	0.0834	0.0684	0.0396	0.0482	0.0256	0.0161	0.0091	0.0040	0.0011	
12	1.8337	0.8220	0.5865	0.3431	0.2072	0.1381	0.1201	0.1034	0.0998	0.0695	0.0926	0.0689	0.0389	0.0471	0.0256	0.0161	0.0091	0.0040	0.0011	
16	1.7643	0.8872	0.4421	0.2852	0.2004	0.1381	0.1208	0.1086	0.1098	0.0698	0.0855	0.0785								
24	1.6649	0.6002	0.3625	0.2588	0.2012	0.1309	0.1229	0.1007	0.1024	0.0706										
32	1.6609	0.5078	0.3628	0.2617	0.2025	0.1384	0.1202	0.1005	0.0998	0.0743										
48	1.1979	0.3246	0.3847	0.2655	0.1966	0.1353	0.1281	0.0995												
64	0.9843	0.3784	0.4105	0.2768	0.1997	0.1408	0.1183	0.1078												
96	1.4275	0.7567	0.4675	0.2923	0.2070	0.1305														
128	1.0888	0.4829	0.3058	0.2311	0.1362	0.0975														
192	2.3773	1.1665	0.6374	0.3480																
256	0.0406	0.0416	0.0428																	
384	0.0404	0.0412																		
512	0.0400	0.0400																		
768	0.0400																			
1024	0.0418																			

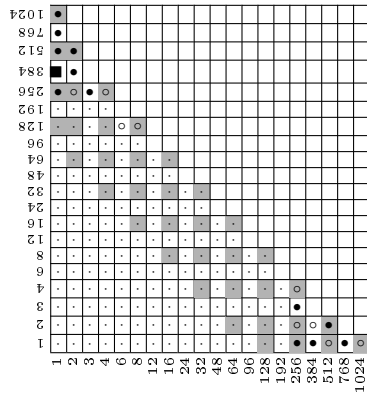


Table221. MB9 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	115.270	57.468	38.352	28.845	19.325	14.562	9.813	7.436	5.062	3.740	2.807	1.975	(1.690)	(1.698)*	(1.698)	(1.690)	(1.711)	(1.708)	1.791	(1.754)
2	84.089	46.992	31.402	23.601	18.791	11.889	7.978	6.030	4.120	3.976	2.722	(1.707)	(1.710)	(1.701)	(1.714)	(1.707)	(1.782)	(1.754)		
3	80.218	40.026	26.714	20.053	13.394	10.064	6.888	4.172	3.095	(1.710)	2.083	(1.716)	(1.707)	(1.721)	(1.711)	(1.780)	(1.782)	(1.754)		
4	71.960	35.921	23.971	17.933	12.015	9.020	5.174	3.149	2.380	(1.724)	1.997	(1.715)	(1.727)	(1.720)	1.786	(1.764)				
6	63.663	31.750	21.178	15.893	10.803	8.105	4.628	4.107	2.580	(1.724)	2.015	(1.731)	(1.776)	1.798						
8	59.478	29.670	19.788	14.850	10.450	8.105	4.628	3.248	2.545	(1.724)	2.045	(1.732)	1.805	(1.776)						
12	55.323	27.592	17.379	10.683	8.119	6.437	4.019	3.243	2.582	(1.734)	2.310	1.814								
16	53.185	26.553	15.935	9.139	6.540	4.918	3.057	2.557	2.579	(1.736)	2.310	1.786								
24	51.409	18.182	15.935	9.139	6.437	4.019	3.243	2.582	2.661	1.818										
32	50.212	18.652	20.627	8.900	6.071	4.271	3.243	2.584	2.681	1.787										
48	35.966	38.341	21.951	8.716	6.575	4.127	3.274	2.700												
64	27.011	68.161	15.372	8.756	7.043	4.383	3.354	2.681												
96	130.643	62.254	24.791	11.628	7.454	3.946														
128	147.079	80.507	32.445	15.206	7.113	4.546														
192	130.008	82.588	30.327	12.385																
256	177.023	92.593	24.959	16.060																
384	174.565	61.845																		
512	243.656	100.433																		
768	168.085																			
1024	287.348																			

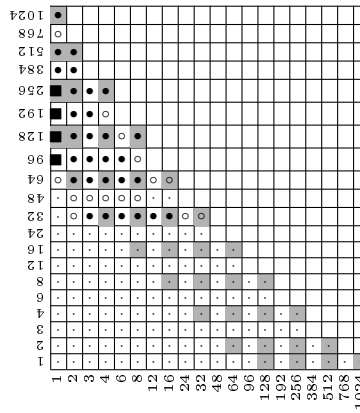


Table222. MB9 Kepler: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1.4375	0.7323	0.4969	0.3785	0.2612	0.2011	0.1425	0.1188	0.0826	0.0801	0.0627	(0.0421)	0.0438	0.0588	0.0577	0.0579	0.0588	0.0578	0.0580	0.0588
2	0.8293	0.4288	0.2937	0.2265	0.1585	0.1342	0.0900	0.0901	0.0687	0.0618	0.0454	(0.0435)	0.0437	0.0588	0.0586	0.0500	0.0588	0.0591		
3	0.5282	0.2259	0.2244	0.1748	0.1248	0.0993	0.0747	0.0886	0.0476	(0.0428)	0.0468	(0.0436)	0.0437	0.0581	0.0591	0.0572				
4	0.5288	0.2263	0.1591	0.1610	0.1080	0.1059	0.0734	0.0576	0.0469	0.0441	0.0468	(0.0418)	(0.0423)	0.0575	0.0591	0.0582				
6	0.4386	0.2263	0.1591	0.1248	0.0997	0.0805	0.0515	0.0476	0.0474	0.0437	0.0467	(0.0435)	0.0440	0.0589						
8	0.3817	0.1782	0.1428	0.1411	0.0957	0.0799	0.0533	0.0471	0.0458	(0.0426)	0.0465	(0.0489)	0.0443	0.0588						
12	0.3308	0.1786	0.1613	0.1126	0.0663	0.0527	0.0520	0.0471	0.0453	(0.0436)	0.0459	(0.0439)								
16	0.3348	0.2094	0.1407	0.1108	0.0663	0.0547	0.0531	0.0466	0.0467	0.0448	0.0455	(0.0433)								
24	0.2852	0.1883	0.1197	0.0818	0.0644	0.0544	0.0529	0.0471	0.0469	0.0448										
32	0.3317	0.1798	0.1086	0.0808	0.0646	0.0569	0.0515	0.0477	0.0485	0.0459										
48	0.3335	0.1466	0.1115	0.0817	0.0664	0.0575	0.0513	0.0481												
64	0.1776	0.0982	0.0802	0.0845	0.0590	0.0589	0.0521	0.0468												
96	0.2815	0.1443	0.1082	0.0812	0.0648	0.0613														
128	0.0807	0.0588	0.0575	0.0596	0.0569	0.0580														
192	0.0583	0.0582	0.0569	0.0589																
256	0.0890	0.0571	0.0579	0.0870																
384	0.0585	0.0588																		
512	0.0890	0.0887																		
768	0.0597																			
1024	0.0892																			

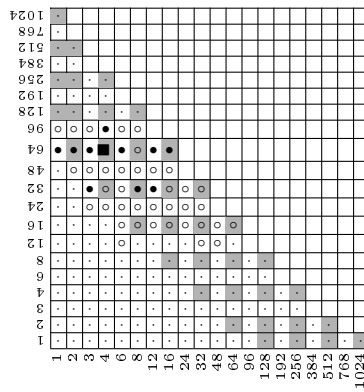


Table223. MB9 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	11.1373	5.5775	3.7117	2.8016	1.8771	1.4135	0.9459	0.7081	0.4761	0.3589	0.2452	0.2020	0.1343	0.0908	0.1294	0.0376	0.0378	0.0379	0.0370	0.0369
2	6.3884	3.1939	2.1361	1.6063	1.0739	0.8071	0.5415	0.4079	0.2799	0.2017	0.1508	0.1288	0.1322	0.0964	0.1129	0.0378	0.0378	0.0379	0.0370	0.0369
3	4.7776	2.4012	1.6909	1.2043	0.8052	0.6060	0.4200	0.2792	0.2047	0.1348	0.1496	0.1293	0.1313	0.0829	0.1131	0.0378	0.0378	0.0379	0.0370	0.0369
4	3.9950	2.0035	1.3880	1.0066	0.6719	0.5059	0.3169	0.2316	0.1613	0.1286	0.1457	0.1457	0.1328	0.1001	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
6	3.2132	1.6102	1.0753	0.8084	0.6098	0.3573	0.2490	0.1610	0.1676	0.1291	0.1463	0.1297	0.1328	0.0890	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
8	2.8248	1.4148	0.9447	0.7292	0.4592	0.2959	0.2037	0.1569	0.1567	0.1308	0.1486	0.1318	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
12	2.4312	1.2177	1.0688	0.6941	0.3573	0.2315	0.2094	0.1562	0.1566	0.1297	0.1489	0.1303	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
16	2.2372	1.1194	0.8347	0.4701	0.3854	0.2769	0.2371	0.1551	0.1563	0.1320	0.1455	0.1369	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
24	2.0746	1.0211	0.7027	0.5028	0.4005	0.2634	0.2371	0.1551	0.1563	0.1320	0.1455	0.1369	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
32	2.0066	0.9214	0.6759	0.5926	0.3981	0.2743	0.2371	0.1551	0.1563	0.1320	0.1455	0.1369	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
48	2.4493	0.9302	0.7033	0.5184	0.3781	0.2646	0.2371	0.1551	0.1563	0.1320	0.1455	0.1369	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
64	1.8211	0.9475	0.7033	0.5184	0.3781	0.2646	0.2371	0.1551	0.1563	0.1320	0.1455	0.1369	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
96	1.8305	0.9265	0.6712	0.4912	0.3732	0.2302	0.2014	0.1656												
128	1.2848	0.8745	0.4545	0.3858	0.2500	0.1802														
192	1.9104	0.9109	0.6733	0.4848																
256	0.0380	0.0377	0.0394	0.0399																
384	0.0381	0.0370																		
512	0.0373	0.0376																		
768	0.0390																			
1024	0.0388																			

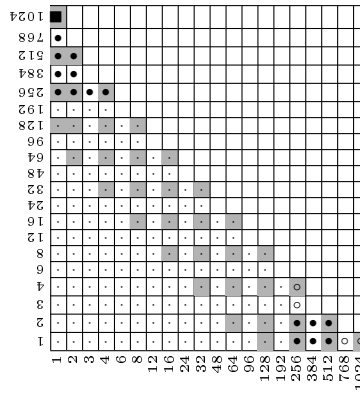


Table224. MB9 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	334.824	167.109	111.399	83.566	65.732	41.862	28.074	21.205	14.325	10.603	9.115	5.366	3.903	(3.166)	(3.233)	(3.173)	(3.210)	(3.201)	(3.186)	
2	191.161	95.583	63.735	47.815	31.882	23.944	16.036	12.160	8.263	5.368	4.124	(3.169)	(3.217)	(3.164)	(3.230)	(3.167)	(3.240)	(3.196)		
3	143.233	71.627	47.743	35.823	23.893	17.956	12.273	8.201	5.636	3.671	3.809	(3.224)	(3.172)	(3.229)	(3.189)	(3.191)				
4	119.387	59.695	39.813	29.860	19.912	14.957	9.230	6.198	4.217	(3.222)	3.484	(3.228)	(3.178)	(3.226)	(3.189)					
6	95.868	47.950	31.981	24.004	18.095	10.426	7.051	4.343	3.983	(3.222)	3.484	(3.228)	(3.178)	(3.226)	(3.189)					
8	84.171	42.095	28.075	21.059	13.583	7.882	5.725	3.941	3.983	(3.222)	3.484	(3.228)	(3.178)	(3.226)	(3.189)					
12	72.591	36.300	22.753	17.894	10.438	6.708	5.785	3.982	3.936	(3.234)	3.742	(3.187)	3.640	(3.124)						
16	66.847	33.445	24.565	13.437	10.805	7.474	5.961	4.064	4.066	(3.106)	4.115	(3.121)								
24	63.217	35.701	20.347	14.245	11.052	7.474	5.961	4.064	4.066	(3.116)*										
32	60.916	29.666	19.863	14.208	10.935	7.574	5.854	3.987	4.654											
48	72.137	32.750	19.823	14.219	10.910	7.489	5.943	4.745												
64	103.928	44.221	21.858	14.302	10.880	7.606	6.178	3.944												
96	141.059	68.605	34.855	14.256	10.991	6.888														
128	163.844	87.636	46.808	21.146		7.781														
192	163.844	87.636	46.808	21.146																
256	190.608	94.914	45.263	29.320																
384	200.829	93.364																		
512	214.929	108.843																		
768	219.727																			
1024	232.390																			

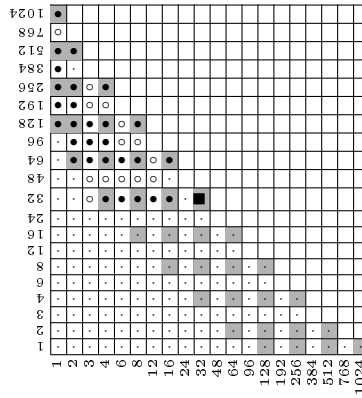


Table225. MB9 Kepler: Without L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	7.7550	3.9132	2.6387	2.0006	1.3639	1.0375	0.7147	0.5881	0.3906	0.3707	0.2715	0.1495	0.1789	0.0574	0.0590	0.0590	0.0580	0.0599	0.0574	0.0605
2	3.9166	1.9948	1.3532	1.0458	0.7210	0.5918	0.3916	0.3833	0.2704	0.2663	0.1748	0.1481	0.1699	0.0701	0.0580	0.0586	0.0591	0.0801		
3	2.6468	1.3686	0.9294	0.7185	0.5022	0.3895	0.2774	0.2720	0.2280	0.1680	0.1880	0.1465	0.1615	0.0575	0.0580	0.0586				
4	2.0041	1.0485	0.7233	0.5922	0.3909	0.3721	0.2708	0.2665	0.1793	0.1698	0.1657	0.1479	0.1599	0.0587	0.0594	0.0594				
6	1.3713	0.7299	0.4983	0.3873	0.2797	0.2708	0.2391	0.1736	0.1964	0.1685	0.1617	0.1478	0.1584	0.0587	0.0586	0.0577				
8	1.0444	0.5935	0.3908	0.3766	0.2720	0.2660	0.1766	0.1736	0.1735	0.1787	0.1599	0.1582	0.1479	0.0593	0.0590					
12	0.7265	0.3863	0.2794	0.2710	0.2346	0.1723	0.1907	0.1700	0.1617	0.1599	0.1582	0.1478								
16	0.6012	0.3766	0.2716	0.2688	0.1931	0.1670	0.1717	0.1782	0.1584	0.1584	0.1584	0.1478								
24	0.3815	0.2671	0.1752	0.1870	0.1779	0.1774	0.1600	0.1983	0.1581	0.1581	0.1581	0.1478								
32	0.2723	0.1720	0.1842	0.1712	0.1616	0.1601	0.1600	0.1845	0.1581	0.1581	0.1581	0.1478								
48	0.1471	0.1489	0.1483	0.1480	0.1468	0.1528	0.1469	0.1482												
64	0.1727	0.1683	0.1602	0.1600	0.1565	0.1554														
96	0.0579	0.0582	0.0583	0.0568*	0.0585	0.0576														
128	0.0581	0.0596	0.0592	0.0590																
256	0.0584	0.0580	0.0573																	
384	0.0586	0.0591																		
512	0.0588	0.0744																		
768	0.0588																			
1024	0.0580																			

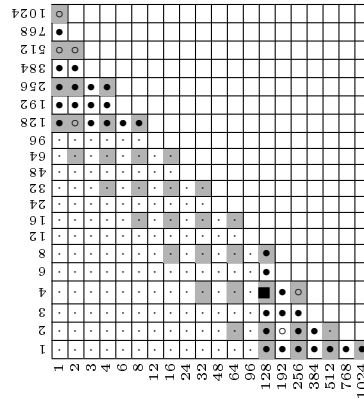


Table 226. MB10 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	39.0783	19.5943	13.1085	9.8381	6.5781	4.9401	3.3098	2.4914	1.6812	1.2737	0.8748	0.7232	0.5541	0.3851	0.5468	(0.0376)	(0.0377)	0.0389	(0.0385)		
2	19.5991	9.8229	6.5827	4.9304	3.3195	2.4901	1.6846	1.2709	0.8745	0.7238	0.5549	0.4327	0.5431	0.3948	0.5195	(0.0370)	(0.0379)				
3	13.1774	6.6352	4.4250	3.3535	2.2285	1.6989	1.1609	0.8746	0.7085	0.5592	0.5740	0.5474	0.5115	0.3589	0.5260	(0.0385)					
4	9.8540	4.9457	3.3229	2.5008	1.6853	1.2744	0.8749	0.7232	0.5715	0.5819	0.5481	0.5143	0.5188	0.4089	0.5408	(0.0378)					
6	6.6477	3.3399	2.2535	1.7140	1.1644	0.8767	0.7101	0.5628	0.5773	0.5377	0.5110	0.5191	0.5289	0.3657							
8	4.9496	2.5167	1.6947	1.2772	0.8750	0.7238	0.5540	0.5889	0.5453	0.5135	0.5193	0.5158	0.5418	0.3485							
12	3.3064	1.7185	1.1624	0.8665	0.7093	0.5534	0.5783	0.5425	0.5107	0.5181	0.5271	0.5395									
16	2.5175	1.2753	0.8764	0.7245	0.5856	0.5395	0.5437	0.5133	0.5197	0.5154	0.5418	0.5378									
24	1.7312	0.8768	0.7209	0.5644	0.5836	0.5402	0.5113	0.5176													
32	1.2820	0.7263	0.5687	0.5826	0.5479	0.5182	0.5208	0.5309	0.5401	0.5378											
48	0.9056	0.5638	0.5838	0.5459	0.5156	0.5209	0.5258	0.5385													
64	0.7305	0.5898	0.5410	0.5442	0.5164	0.5243															
96	0.5764	0.5505	0.5163	0.5241	0.5252	0.5363															
128	0.4000	0.3969	0.3620	0.4021	0.3647	0.3408															
192	0.5875	0.5286	0.5254	0.5373																	
256	0.0402	(0.0381)	(0.0376)	(0.0372)	0.0464																
384	(0.0381)	(0.0369)																			
512	(0.0383)	(0.0375)																			
768	0.0415																				
1024	(0.0381)																				

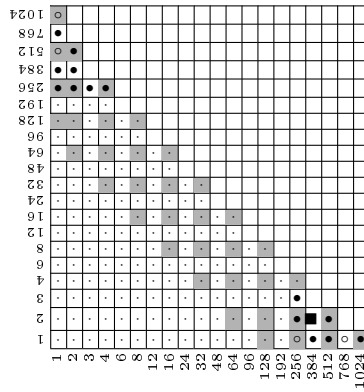


Table227. MB10 Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	693,589	301,765	201,020	150,943	100,825	75,400	50,272	37,816	25,142	18,859	12,600	9,448	6,322	4,779	5,069	4,789	5,097	4,812	6,385	4,857	
2	301,969	150,789	100,528	75,478	50,324	37,744	25,155	18,861	12,596	9,448	6,335	4,779	5,067	4,745	5,007	4,812	6,385	4,857			
3	202,160	101,081	67,353	50,544	33,684	25,338	16,784	12,589	8,418	6,333	5,318	5,070	4,849	5,092	4,812	6,382					
4	150,958	75,448	50,427	37,709	25,159	18,864	12,604	9,449	6,316	4,793	5,065	4,789	5,092	4,812	6,388	4,859					
6	101,685	50,775	33,866	25,481	16,779	12,584	8,428	6,313	5,629	5,069	4,845	5,091	5,665	6,382							
8	75,484	37,714	25,143	18,922	12,596	9,449	6,323	4,755	5,072	4,785	5,091	5,661	6,391	4,859							
12	51,401	25,649	16,765	12,574	8,431	6,319	5,624	5,067	4,848	5,091	5,661	6,379									
16	37,790	18,873	12,601	9,449	6,318	4,782	5,069	4,790	5,100	4,844	6,399	4,897									
24	18,936	9,459	6,323	4,771	5,073	5,062	4,899	5,088	5,656	6,371											
32	15,534	8,301	5,622	5,057	4,855	5,077	5,664	6,360	6,387	4,858											
48	9,438	4,755	5,057	4,845	4,760	5,085	4,787	6,365	4,881												
96	6,301	5,057	4,845	5,068	5,638	6,352															
128	4,760	4,771	5,076	4,759	6,339	4,852															
192	5,069	5,098	5,646	6,339																	
256	4,759	4,847	6,346	4,835																	
384	5,122	6,361																			
512	4,820	4,847																			
768	6,392																				
1024	4,896																				

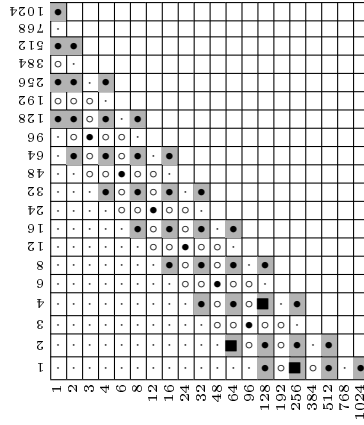


Table228. MB10 Kepler: Normal L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	7.7400	3.9124	2.6343	1.9970	1.3482	1.0376	0.7148	0.5837	0.3868	0.3562	0.2684	0.1445	0.1707	0.0573	0.0568	0.0567	0.0574	0.0585	0.0580	0.0589	1.024
2	3.9076	2.0027	1.3536	1.0347	0.7165	0.5864	0.3876	0.3544	0.2698	0.2545	0.1684	0.1444	0.1645	0.0567	0.0566	0.0575	0.0569	0.0564			
3	2.6394	1.3551	0.9244	0.7116	0.4952	0.3793	0.2764	0.2678	0.2240	0.1730	0.1821	0.1445	0.1580	0.0571	0.0577	0.0565					
4	1.9933	1.0367	0.7101	0.5886	0.3877	0.2848	0.2695	0.2531	0.1873	0.1704	0.1642	0.1442	0.1563	0.0582	0.0576	0.0572					
6	1.3686	0.7197	0.4961	0.3787	0.2848	0.2695	0.2531	0.1873	0.1704	0.1751	0.1577	0.1440	0.1550	0.0582							
8	1.0378	0.5889	0.3882	0.3599	0.2682	0.1687	0.1797	0.1680	0.1640	0.1758	0.1559	0.1498	0.1814	0.0568							
12	0.7197	0.3836	0.2788	0.2839	0.2240	0.1657	0.1639	0.1759	0.1560	0.1560	0.1815	0.1442									
16	0.5937	0.3628	0.2683	0.2654	0.1651	0.1670	0.1582	0.1561	0.1546	0.1811											
24	0.3811	0.2647	0.2335	0.1666	0.1796	0.1751	0.1564	0.1544	0.1815	0.2286											
32	0.3762	0.2620	0.1664	0.1771	0.1674	0.1564	0.1544	0.1815	0.1814												
48	0.2642	0.1708	0.1807	0.1669	0.1584	0.1564	0.1544	0.1815													
64	0.1452	0.1446	0.1444	0.1447	0.1443	0.1504	0.1423	0.1456													
96	0.1734	0.1646	0.1583	0.1565	0.1548	0.1823															
128	0.0566	0.0576	0.0587	0.0592	0.0567	0.0564															
192	0.0570	0.0569	0.0574	0.0552*																	
256	0.0566	0.0569	0.0565	0.0582																	
384	0.0578	0.0574																			
512	0.0571	0.0578																			
768	0.0583																				
1024	0.0577																				

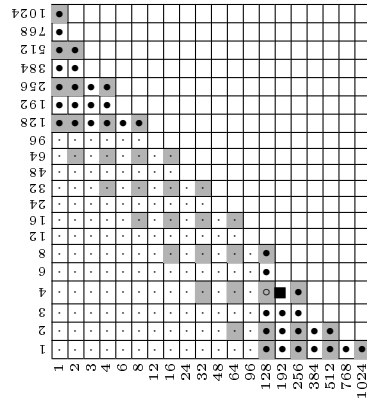


Table 229. MB10 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024	
1	32.6489	16.3982	11.0020	8.2991	5.5877	4.2429	2.8919	2.2348	1.5575	1.1454	0.8746	0.7088	0.5556	0.3884	0.5308	0.0416	0.0412	(0.0407)	(0.0407)	0.0416	0.0414
2	16.4086	8.2976	5.6148	4.2521	2.8956	2.2221	1.5678	1.2038	0.8750	0.6661	0.5506	0.5297	0.5326	0.3853	0.5117	0.0428	0.0416	(0.0403)			
3	11.1073	5.6109	3.8207	2.9093	1.9922	1.5683	1.1073	0.8573	0.6868	0.5534	0.5751	0.5315	0.5041	0.3614	0.5233	0.0413					
4	8.3059	4.2495	2.8963	2.2298	1.5575	1.2013	0.8751	0.6874	0.5536	0.5292	0.5313	0.5281	0.5109	0.4043	0.5418	(0.0397)					
6	5.6566	2.9324	1.9974	1.5664	1.1043	0.8490	0.6879	0.5458	0.5757	0.5357	0.5044	0.5107	0.5227	0.3657							
8	4.2598	2.2268	1.5615	1.2119	0.8714	0.7102	0.5535	0.5289	0.5317	0.5285	0.5112	0.5002	0.5402	0.3438							
12	3.0123	1.5706	1.1092	0.8477	0.6919	0.5384	0.5763	0.5344	0.5035	0.5136	0.5210	0.5412									
16	2.2330	1.1712	0.8245	0.6980	0.5528	0.5301	0.5306	0.5279	0.5005	0.5158	0.5292	0.5416	0.5378								
24	1.6249	0.8553	0.7059	0.6430	0.5753	0.5355	0.5043	0.5005	0.5158	0.5292	0.5416	0.5378									
32	1.2205	0.7014	0.5557	0.5284	0.5339	0.5287	0.5103	0.4994	0.5155	0.5144	0.5266										
48	0.8704	0.5511	0.5796	0.5404	0.5071	0.5155	0.5144	0.5266													
64	0.7071	0.5206	0.5286	0.5102	0.5169	0.5079	0.5214	0.5199													
96	0.5537	0.5251	0.5136	0.5196	0.5202	0.5308															
128	0.3962	0.3929	0.3573	0.4050	0.3612	0.3406															
192	0.5552	0.5218	0.5257	0.5380																	
256	(0.0391)*	(0.0420)	0.0412	(0.0406)																	
384	(0.0408)	(0.0404)																			
512	(0.0401)	0.0412																			
768	0.0411																				
1,024	(0.0403)																				

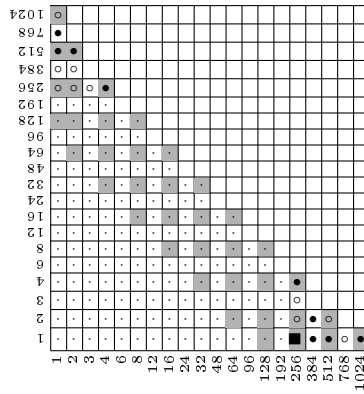


Table 230. MB10 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	(603.981)	301.570	201.042	150.814	100.642	75.407	50.277	37.709	25.147	18.882	12.601	9.451	6.325	(4.781)	5.078	(4.792)	5.100	(4.815)	6.390	(4.860)
2	301.958	150.799	100.634	75.411	50.276	37.720	25.155	18.876	12.599	9.456	6.325	(4.780)	5.074	(4.791)	5.102	(4.816)	6.386	(4.858)		
3	202.292	101.055	67.371	50.680	33.694	25.349	18.788	12.608	8.424	6.327	5.021	5.050	(4.850)	5.095	5.875	6.399				
4	150.944	75.413	50.283	37.722	25.167	18.894	12.608	9.452	6.325	(4.780)	5.087	(4.791)	5.098	(4.816)	6.395	(4.800)				
6	101.776	50.700	33.868	25.473	16.708	12.592	8.436	6.318	5.037	5.070	(4.881)	5.098	5.070	6.384						
8	75.554	37.726	25.158	18.878	12.602	9.452	6.330	(4.781)	5.074	(4.792)	5.090	(4.816)	6.390	(4.868)						
12	51.469	25.726	16.837	12.506	8.456	6.316	5.074	(4.793)	5.067	(4.850)	5.093	5.063	6.386							
16	37.898	18.964	12.610	9.466	6.329	5.063	(4.846)	5.096	5.100	(4.819)	5.063	5.063	6.386							
24	26.302	12.607	8.444	6.316	5.074	(4.793)	5.074	(4.793)	5.100	(4.817)	6.388	(4.867)								
32	18.988	9.470	6.333	(4.784)	5.074	(4.793)	5.063	(4.825)	5.063	5.063	6.367									
48	12.581	6.319	5.035	(4.784)	5.074	(4.793)	5.063	(4.825)	5.063	5.063	6.367									
64	9.469	(4.754)	(4.829)	(4.746)*	(4.825)	5.068	(4.793)	6.370	(4.883)											
96	6.305	5.058	(4.829)	5.072	5.068	5.068	5.068	6.357	(4.887)											
128	(4.750)	(4.760)	5.065	5.031	6.343															
192	5.077	5.072	5.031	6.343																
256	(4.750)	(4.809)	6.378	(4.825)																
384	5.125	6.386																		
512	(4.821)	(4.849)																		
768	6.382																			
1024	(4.881)																			

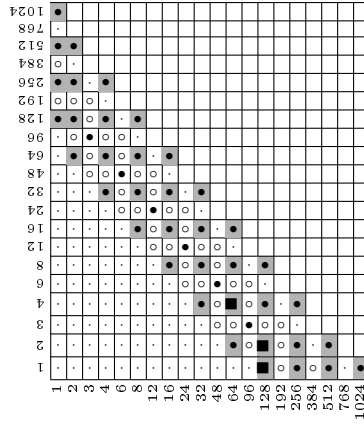


Table231. MB10 Kepler: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	8.7065	4.3727	2.9368	2.2041	1.4782	1.1136	0.7657	0.6226	0.3907	0.3851	0.2692	0.1473	0.1668	0.0577	0.0588	0.0577	0.0585	0.0590	0.0576	0.0595
2	4.3811	2.2008	1.4756	1.1114	0.7516	0.6197	0.3937	0.3814	0.2700	0.2660	0.1693	0.1472	0.1724	0.0576	0.0586	0.0594	0.0608	0.0590	0.0576	0.0595
3	2.9322	1.4784	0.9961	0.7612	0.5103	0.3917	0.2878	0.2719	0.2484	0.1716	0.1826	0.1476	0.1602	0.0591	0.0592	0.0607				
4	2.2039	1.1222	0.7532	0.6256	0.3876	0.3706	0.2899	0.2658	0.1782	0.1668	0.1666	0.1473	0.1577	0.0596	0.0588					
6	1.4828	0.7581	0.5107	0.3923	0.2870	0.2710	0.2429	0.1739	0.1810	0.1658	0.1609	0.1468	0.1575	0.0588						
8	1.1159	0.6250	0.3935	0.3814	0.2701	0.2663	0.1865	0.1671	0.1680	0.1765	0.1589	0.1524	0.1842	0.0587						
12	0.7558	0.3935	0.2710	0.2271	0.2271	0.1751	0.1820	0.1752	0.1595	0.1571	0.1573	0.1466								
16	0.6248	0.3815	0.2705	0.2656	0.1682	0.1674	0.1715	0.1693	0.1584	0.1677	0.1838									
24	0.4002	0.2805	0.2494	0.1804	0.1821	0.1778	0.1715	0.1693	0.1677	0.1838										
32	0.3768	0.2764	0.1783	0.1768	0.1775	0.1874	0.1693	0.1693	0.2079	0.1941	0.2361									
48	0.2815	0.1781	0.1925	0.1733	0.1597	0.1595	0.1577	0.1838												
64	0.1516	0.1466	0.1483	0.1476	0.1473	0.1521	0.1473	0.1467												
96	0.1785	0.1766	0.1614	0.1577	0.1581	0.1581	0.1865													
128	0.0605	0.0580	0.0582	0.0569	0.0586	0.0591														
192	0.0588	0.0573	0.0590	0.0589																
256	0.0595	0.0601	0.0570	0.0590																
384	0.0591	0.0577																		
512	0.0584	0.0577																		
768	0.0580																			
1024																				

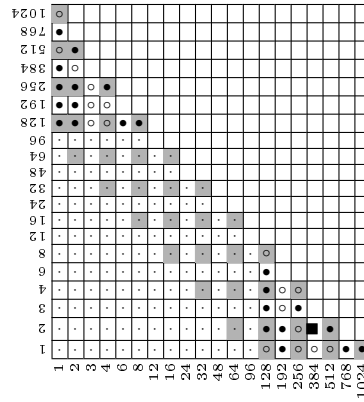


Table232. MB10 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	40.3159	20.2044	13.4862	10.1149	6.7695	5.0816	3.3574	2.5482	1.6923	1.2840	0.9005	0.7234	0.5760	0.4984	0.5610	0.6380	0.6380	0.6387	0.6384	0.6384	0.6381
2	20.2001	10.1132	6.7503	5.0676	3.3910	2.5435	1.6924	1.2742	0.8926	0.7218	0.5727	0.5592	0.5611	0.4009	0.5357	0.5357	0.5357	0.5357	0.5357	0.5357	0.5357
3	13.5289	8.7721	4.5276	3.3900	2.2543	1.7142	1.1862	0.9039	0.7309	0.5738	0.6028	0.5603	0.5236	0.3688	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364
4	10.1511	5.0877	3.3910	2.5413	1.7028	1.2778	0.8901	0.7231	0.5739	0.5532	0.5549	0.5219	0.5373	0.4088	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364
6	6.7865	3.4159	2.2698	1.7164	1.1950	0.9036	0.7324	0.5727	0.6049	0.5602	0.5231	0.5375	0.5366	0.3628	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364
8	5.0710	2.5404	1.6999	1.2788	0.9027	0.7234	0.5723	0.5558	0.5549	0.5225	0.5360	0.5271	0.5355	0.3992	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364
12	3.4161	1.7207	1.2059	0.9032	0.7240	0.5759	0.5592	0.5209	0.5297	0.5372	0.5272	0.5351	0.5351	0.3992	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364
16	2.5423	1.2813	0.9032	0.7240	0.5759	0.5592	0.5209	0.5297	0.5372	0.5272	0.5351	0.5351	0.5351	0.3992	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364
24	1.7397	0.9067	0.7384	0.5727	0.5056	0.5504	0.5239	0.5368	0.5362	0.5353	0.5353	0.5353	0.5353	0.3992	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364
32	1.2845	0.7278	0.5797	0.5589	0.5619	0.5298	0.5355	0.5371	0.5374	0.5366	0.5366	0.5366	0.5366	0.3992	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364
48	0.9268	0.5764	0.6070	0.5564	0.5236	0.5369	0.5371	0.5371	0.5371	0.5371	0.5371	0.5371	0.5371	0.3992	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364
64	0.7367	0.5549	0.5573	0.5225	0.5371	0.5268	0.5365	0.5365	0.5365	0.5365	0.5365	0.5365	0.5365	0.3992	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364
96	0.5807	0.5612	0.5245	0.5363	0.5376	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.3992	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364	0.5364
128	0.4988	0.4018	0.3706	0.4096	0.3643	0.3996	0.3996	0.3996	0.3996	0.3996	0.3996	0.3996	0.3996	0.3996	0.3996	0.3996	0.3996	0.3996	0.3996	0.3996	0.3996
192	0.5677	0.5381	0.5383	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358	0.5358
256	0.0390	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384
384	0.0395	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372
512	0.0381	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372
768	0.0381	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372	0.0372
1024	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375	0.0375

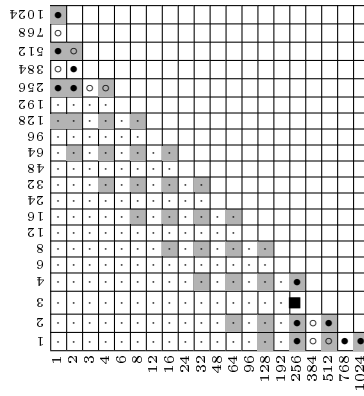


Table 233. MB10 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1 024
1	581.386	290.584	193.726	145.316	96.869	72.664	48.451	36.341	24.236	18.190	12.616	9.451	7.156	5.859	5.069	5.864	5.952	5.870	7.244	5.992
2	290.713	145.300	96.874	72.657	48.439	36.335	24.230	18.177	12.594	9.484	7.152	5.856	5.075	5.849	5.066	5.868	7.242	5.991		
3	193.726	96.874	65.108	48.835	32.668	24.338	16.859	12.671	9.512	7.035	5.723	5.012	5.078	6.015	6.484	7.124				
4	145.316	72.657	48.464	36.348	24.242	18.194	12.821	9.469	7.158	(4.778)	5.070	(4.791)	5.098	(4.815)	6.392	(4.858)				
6	101.902	50.872	32.852	24.645	16.954	12.729	9.494	6.984	6.694	6.000	5.801	5.959	6.416	7.070						
8	72.818	36.349	24.243	18.195	12.598	9.453	7.158	5.861	5.982	5.866	5.958	6.871	7.246	5.991						
12	50.117	28.025	17.074	12.841	9.326	6.824	6.649	5.977	6.097	6.117	7.035	6.218								
16	36.757	18.374	12.880	9.844	7.375	6.165	6.150	6.177	6.208	6.910										
24	26.368	12.926	8.869	6.865	6.525	5.710	5.489	5.704	6.208	6.078										
32	19.103	9.936	6.343	5.911	5.747	5.898	6.050	5.943	7.362	6.078										
48	13.505	6.628	6.024	5.561	5.442	5.570	6.009	6.584												
64	9.622	4.942	5.382	4.865	5.185	(4.863)	6.175	4.974												
96	6.543	5.259	(4.843)	4.939	5.484	6.161														
128	(4.860)	(4.712)	4.963	(4.682)*	6.148	(4.666)														
192	5.149	4.971	5.513	6.152																
256	5.207	6.228	6.225	(4.688)																
384	6.409	(4.760)																		
512																				
768																				
1024	4.925																			

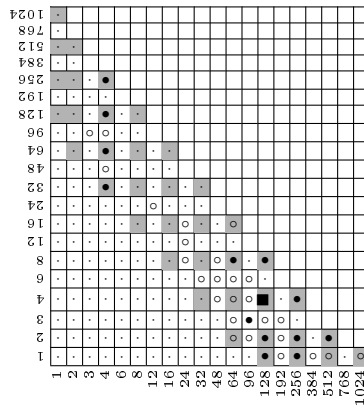


Table 234. MB10 Kepler: Without L1, size 6144×6144, seconds.

1	8.0583	4.0499	2.7122	2.0425	1.3674	1.0373	0.7039	0.5771	0.3641	0.3546	0.2528	0.1306	0.1663	0.0587	0.0589	0.0589	0.0584	0.0557*	0.0590	0.0589	0.0582	0.0582
2	4.1866	2.1122	1.4160	1.0727	0.7248	0.5685	0.3768	0.3693	0.2619	0.2484	0.1695	0.1388	0.1858	0.0589	0.0590	0.0582	0.0575	0.0589	0.0589	0.0589	0.0589	0.0582
3	2.8704	1.4564	0.9828	0.7452	0.5066	0.3813	0.3070	0.2587	0.2247	0.1659	0.1749	0.1392	0.1829	0.0589	0.0590	0.0579	0.0579	0.0589	0.0589	0.0589	0.0589	0.0582
4	2.2149	1.1294	0.7642	0.6332	0.3930	0.3849	0.2650	0.2560	0.1718	0.1660	0.1669	0.1374	0.1811	0.0589	0.0589	0.0577	0.0577	0.0589	0.0589	0.0589	0.0589	0.0582
6	1.5483	0.7868	0.5378	0.4072	0.3237	0.2738	0.2249	0.1723	0.1784	0.1666	0.1691	0.1300	0.1816	0.0589	0.0589	0.0577	0.0577	0.0589	0.0589	0.0589	0.0589	0.0582
8	1.2276	0.6821	0.4247	0.4176	0.2849	0.2654	0.1750	0.1720	0.1718	0.1739	0.1652	0.1507	0.1868	0.0589	0.0589	0.0577	0.0577	0.0589	0.0589	0.0589	0.0589	0.0582
12	0.8809	0.4579	0.3516	0.2947	0.2285	0.1766	0.1820	0.1720	0.1684	0.1614	0.1640	0.1376	0.1868	0.0589	0.0589	0.0577	0.0577	0.0589	0.0589	0.0589	0.0589	0.0582
16	0.7805	0.4890	0.3130	0.2800	0.1810	0.1770	0.1758	0.1672	0.1683	0.1648	0.1876	0.1430	0.1868	0.0589	0.0589	0.0577	0.0577	0.0589	0.0589	0.0589	0.0589	0.0582
24	0.5879	0.3363	0.2453	0.1877	0.1900	0.1771	0.1758	0.1672	0.1683	0.1648	0.1876	0.1430	0.1868	0.0589	0.0589	0.0577	0.0577	0.0589	0.0589	0.0589	0.0589	0.0582
32	0.6104	0.3331	0.2013	0.1887	0.1825	0.1828	0.1738	0.2007	0.1915	0.1915	0.2288	0.1455	0.1472	0.0589	0.0589	0.0577	0.0577	0.0589	0.0589	0.0589	0.0589	0.0582
48	0.4328	0.2223	0.2100	0.1885	0.1814	0.1733	0.1919	0.1919	0.1915	0.1915	0.2288	0.1455	0.1472	0.0589	0.0589	0.0577	0.0577	0.0589	0.0589	0.0589	0.0589	0.0582
64	0.2921	0.1809	0.1701	0.1593	0.1527	0.1603	0.1455	0.1472	0.1455	0.1455	0.2288	0.1455	0.1472	0.0589	0.0589	0.0577	0.0577	0.0589	0.0589	0.0589	0.0589	0.0582
96	0.3081	0.2263	0.2001	0.1851	0.1768	0.1965	0.1455	0.1472	0.1455	0.1455	0.2288	0.1455	0.1472	0.0589	0.0589	0.0577	0.0577	0.0589	0.0589	0.0589	0.0589	0.0582
128	0.0586	0.0586	0.0586	0.0592	0.0595	0.0591	0.0590	0.0590	0.0590	0.0590	0.0590	0.0590	0.0590	0.0590	0.0590	0.0590	0.0590	0.0590	0.0590	0.0590	0.0590	0.0590
192	0.0589	0.0573	0.0596	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604	0.0604
256	0.0592	0.0585	0.0635	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630	0.0630
384	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598	0.0598
512	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589
768	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589
1024	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595	0.0595

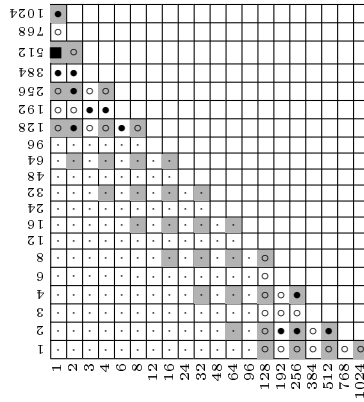


Table 235. MB11 Kepler: Normal L1, size 96×96, milliseconds.

1	34.0623	17.0355	11.3711	8.5366	5.7057	4.2860	2.8642	2.1512	1.4450	1.0835	0.8274	0.6332	0.5113	0.3981	0.5423	0.0990	(0.0371)	0.0387	0.0407	0.0381	0.0388
2	18.1798	9.1040	6.0789	4.5695	3.0518	2.2985	1.5904	1.1542	0.7430	0.6332	0.5618	0.5688	0.5427	0.4041	0.5398	(0.0370)	(0.0364)				
3	12.6528	6.3421	4.2423	3.1801	2.1282	1.6036	1.1851	0.8746	0.7430	0.5522	0.5909	0.5908	0.5322	0.3768	0.5396	0.0398					
4	9.0025	4.9547	3.3135	2.4915	1.6655	1.2525	0.9023	0.6719	0.5827	0.5866	0.5724	0.5689	0.5380	0.4316	0.5212	(0.0368)					
6	7.1191	3.5653	2.3842	1.7900	1.3087	0.9333	0.7530	0.5829	0.6364	0.5885	0.5425	0.5380	0.5413	0.3504							
8	5.7259	2.8742	1.9194	1.4421	0.9962	0.7191	0.5959	0.5887	0.5913	0.5842	0.5410	0.5349	0.5208	0.3561							
12	4.3602	2.1777	1.5272	1.0652	0.7953	0.6062	0.6493	0.5923	0.5648	0.5401	0.5225										
16	3.6640	1.8307	1.1677	0.8545	0.6431	0.6166	0.6046	0.5976	0.5724	0.5447	0.5373	0.5754									
24	2.9547	1.4101	0.9306	0.7307	0.6851	0.6218	0.6387	0.6294	0.5724	0.5733	0.5222										
32	2.6163	1.1880	0.9301	0.7716	0.6648	0.6857	0.6010	0.5826	0.5734	0.5447	0.5754										
48	2.1878	1.2283	0.9510	0.8022	0.6627	0.6137	0.6010	0.5653													
64	1.9818	1.3892	0.9668	0.8367	0.6692	0.6579	0.5975	0.6186													
96	2.3030	1.4880	1.2280	0.8684	0.7144	0.6965															
128	1.8894	1.1026	0.7848	0.7271	0.5628	0.4826															
192	3.0572	1.8226	1.3763	1.1185																	
256	(0.0366)	(0.0375)	(0.0373)	(0.0381)																	
384	(0.0372)	(0.0376)																			
512	(0.0377)	0.0382																			
768	(0.0374)																				
1024	(0.0375)																				

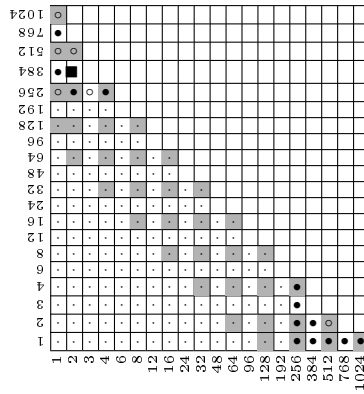


Table 236. MB11 Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0557	4.0476	2.7150	2.0412	1.3685	1.0380	0.6939	0.5772	0.3608	0.3527	0.2521	0.1351	0.1633	(0.0572)	(0.0575)	(0.0565)	(0.0566)	(0.0573)	(0.0571)	(0.0572)
2	4.1858	2.1082	1.4163	1.0698	0.7209	0.5953	0.3749	0.3653	0.2603	0.2446	0.1652	0.1368	0.1640	(0.0573)	(0.0572)	(0.0570)	(0.0571)	(0.0566)		
3	2.8845	1.4478	0.9749	0.7366	0.4984	0.3816	0.3040	0.2569	0.2206	0.1643	0.1727	0.1353	0.1628	(0.0571)	(0.0568)	(0.0574)				
4	2.2137	1.1177	0.7537	0.6261	0.3802	0.3804	0.2624	0.2524	0.1687	0.1640	0.1649	0.1354	0.1592	(0.0568)	(0.0562)	(0.0569)				
6	1.5419	0.7895	0.5310	0.4059	0.3200	0.2675	0.2184	0.1996	0.1754	0.1640	0.1631	0.1356	0.1576	(0.0566)						
8	1.2185	0.6815	0.4179	0.4139	0.2815	0.2632	0.1711	0.1687	0.1684	0.1709	0.1631	0.1471	0.1827	(0.0574)						
12	0.8862	0.4569	0.3474	0.2935	0.2255	0.1733	0.1788	0.1693	0.1668	0.1602	0.1601	0.1327								
16	0.7911	0.4797	0.3099	0.2845	0.1791	0.1733	0.1717	0.1746	0.1640	0.1687	0.1858	0.1389								
24	0.5511	0.3360	0.2416	0.1841	0.1852	0.1734	0.1712	0.1646	0.1628	0.1837										
32	0.6083	0.3279	0.1967	0.1831	0.1789	0.1793	0.1688	0.1881	0.1881	0.2348										
48	0.4292	0.2177	0.2026	0.1844	0.1774	0.1694	0.1665	0.1886												
64	0.2207	0.1825	0.1662	0.1566	0.1504	0.1568	0.1440	0.1435												
96	0.2881	0.2162	0.1946	0.1816	0.1733	0.1928														
128	(0.0570)	(0.0581)	(0.0580)	(0.0563)	(0.0574)	(0.0571)														
192	(0.0572)	(0.0554)	(0.0562)	(0.0564)																
256	(0.0567)	(0.0572)	0.0583	(0.0575)																
384	(0.0568)	(0.0576)																		
512	(0.0565)	(0.0569)																		
768	(0.0569)																			
1024	(0.0562)																			

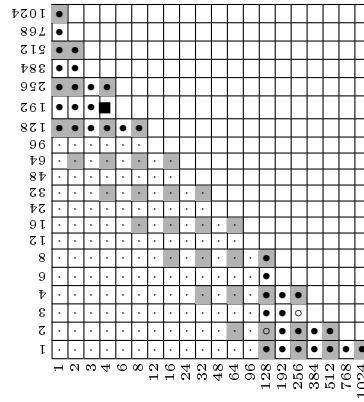


Table 238. MB11 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	34.0529	17.0456	11.3708	8.5417	5.7059	4.2800	2.8725	2.1529	1.4431	1.0861	0.8273	0.6321	0.5316	0.3981	0.5584	0.0409	0.0412	0.0405	0.0414	0.0431
2	18.1781	9.1046	6.0767	4.5650	3.0583	2.2942	1.5908	1.1546	0.8746	0.6326	0.5618	0.5572	0.5421	0.4040	0.5400	0.0414	0.0436	0.0396		
3	12.6870	6.3454	4.2306	3.1828	2.1281	1.5964	1.1852	0.8743	0.7419	0.5820	0.5908	0.5588	0.5312	0.3761	0.5393	0.0409				
4	9.9004	4.9572	3.3157	2.4953	1.6629	1.2484	0.9020	0.6697	0.5823	0.5871	0.5713	0.5642	0.5405	0.4316	0.5208	0.0404				
6	7.1191	3.5534	2.3849	1.7907	1.3092	0.9827	0.7533	0.5819	0.6341	0.5602	0.5422	0.5388	0.5413	0.3505						
8	5.7235	2.8740	1.9191	1.4408	0.9983	0.7179	0.5920	0.5872	0.5906	0.5852	0.5518	0.5385	0.5208	0.3562						
12	4.3464	2.1802	1.5268	1.0617	0.7936	0.6007	0.6444	0.5904	0.5928	0.5888	0.5544	0.5212								
16	3.6570	1.8900	1.1504	0.8259	0.6326	0.5965	0.5760	0.5960	0.5708	0.5410	0.5351	0.5753								
24	2.9564	1.5957	0.8851	0.6656	0.6577	0.6011	0.5673	0.5701	0.5742	0.5920										
32	2.6094	1.4457	0.7236	0.6317	0.6000	0.6082	0.5823	0.5704	0.5532	0.5756										
48	1.8996	0.8138	0.7157	0.6924	0.5943	0.5834	0.5784	0.5528												
64	1.5176	0.7859	0.6824	0.6456	0.5941	0.6009														
96	1.4520	0.8155	0.6748	0.6192	0.6172	0.5763														
128	1.1152	0.5988	0.4923	0.5106	0.4301	0.3972														
256	0.6363*	0.0428	0.7564																	
384	0.0439	0.0416																		
512	(0.0410)	(0.0411)																		
768	(0.0407)																			
1024	(0.0411)																			

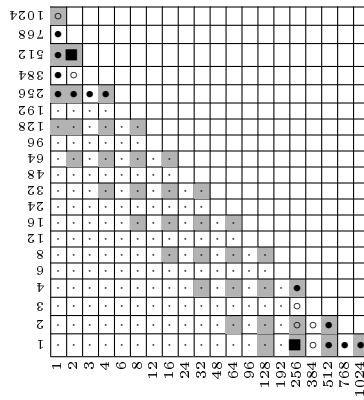


Table239. MB11 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	144.670	72.361	48.249	36.262	24.148	18.148	12.190	9.207	6.240	4.627	3.401	2.493	(2.113)	(2.105)*	(2.106)	(2.106)	(2.110)	(2.114)	(2.114)	(2.174)
2	108.209	54.106	36.133	27.137	18.149	13.657	9.154	6.915	4.766	2.465	2.496	(2.110)	(2.113)	(2.108)	(2.121)	(2.114)	(2.203)	(2.173)		
3	80.625	44.757	29.854	22.406	14.939	11.238	7.667	4.813	3.028	(2.130)	2.538	(2.122)	(2.119)	(2.126)	(2.175)	(2.198)				
4	70.022	39.459	26.325	19.763	13.188	9.906	5.758	3.651	2.086	(2.130)	2.410	(2.122)	(2.131)	(2.138)	(2.206)	(2.188)				
6	68.353	34.113	22.759	17.076	11.591	6.760	4.543	2.985	1.907	(2.141)	2.438	(2.137)	(2.131)	2.217						
8	63.066	31.442	20.971	15.738	8.692	5.074	3.562	2.950	2.074	(2.141)	2.442	(2.139)	2.226	(2.194)						
12	57.688	28.776	18.219	10.683	6.339	3.923	3.402	2.973	2.972	(2.145)	2.522	2.237								
16	54.959	27.442	17.606	8.018	6.234	3.808	3.271	2.963	2.991	(2.144)	2.649	(2.206)								
24	52.693	18.787	15.565	9.578	6.978	3.965	3.335	2.987	3.088	2.244										
32	51.159	17.759	20.272	9.087	5.943	4.030	3.372	2.976	3.119	2.219										
48	65.321	38.469	22.297	8.664	6.989	4.023	3.522	3.139												
64	91.701	62.877	15.237	8.763	7.238	4.280														
96	129.680	61.922	24.935	11.724	7.192	4.260														
128	147.119	79.796	31.680	14.767	7.209	4.816														
192	128.682	81.321	29.308	12.219																
256	173.845	90.492	24.331	15.864																
384	170.136	54.805																		
512	201.013	88.931																		
768	162.957																			
1024	193.091																			

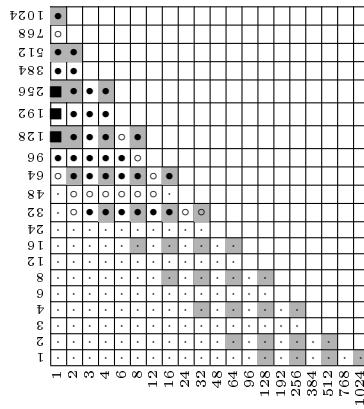


Table240. MB11 Kepler: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	9.0329	4.5382	3.0210	2.2830	1.5284	1.1494	0.7807	0.5421	0.4048	0.3018	0.2748	0.1509	0.1771	0.0587	0.0606	0.0587	0.0578	0.0597	0.0593	0.0570
2	4.6021	2.3190	1.5549	1.1759	0.7948	0.6532	0.4091	0.3094	0.2843	0.2719	0.1788	0.1505	0.1775	0.0582	0.0588	0.0583	0.0585	0.0582		
3	3.1451	1.5865	1.0677	0.8087	0.5449	0.4133	0.3291	0.2856	0.2294	0.1798	0.1856	0.1493	0.1772	0.0587	0.0606	0.0583	0.0585			
4	2.4145	1.2266	0.8273	0.6855	0.4268	0.4152	0.2901	0.2762	0.1800	0.1785	0.1791	0.1492	0.1732	0.0578	0.0606	0.0583	0.0585			
6	1.6945	0.8600	0.5827	0.4427	0.3505	0.2973	0.2332	0.1818	0.1877	0.1780	0.1781	0.1510	0.1724	0.0578	0.0573	0.0582				
8	1.3279	0.7395	0.4602	0.4520	0.3113	0.2895	0.1850	0.1807	0.1832	0.1839	0.1769	0.1624	0.1966	0.0590						
12	0.9694	0.4936	0.4039	0.3228	0.2467	0.1889	0.1909	0.1820	0.1806	0.1751	0.1750	0.1486								
16	0.8525	0.5176	0.3533	0.3208	0.2014	0.1891	0.1865	0.1873	0.1783	0.2087	0.1963	0.1547								
24	0.6054	0.3968	0.2822	0.2149	0.2067	0.1895	0.1860	0.1776	0.1755	0.1968										
32	0.6703	0.3849	0.2407	0.2154	0.2010	0.1891	0.1833	0.2086	0.2000	0.2455										
48	0.5521	0.2724	0.2483	0.2142	0.1980	0.1856	0.1818	0.1998												
64	0.2840	0.2068	0.1874	0.1725	0.1662	0.1707	0.1570	0.1562												
96	0.3992	0.2730	0.2373	0.2113	0.1941	0.2132														
128	0.0589	0.0593	0.0570*	0.0572	0.0593	0.0593	0.0590													
192	0.0592	0.0593	0.0592	0.0593	0.0593	0.0593														
256	0.0578	0.0582	0.0582	0.0580																
384	0.0590	0.0587																		
512	0.0575	0.0594																		
768	0.0582																			
1024	0.0605																			

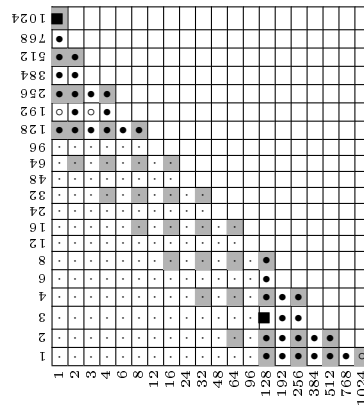


Table241. MB11 Kepler: Without L1, size 96×96, milliseconds.

1	41.3994	20.7351	13.8483	10.3950	6.9856	5.2065	3.4638	2.6056	1.7449	1.3082	0.9628	0.7436	0.6118	0.4971	0.6012	0.0389	0.0380	0.0380	0.0386	0.0386	0.0386
2	21.3988	10.7369	7.1812	5.3808	3.5902	2.7003	1.7980	1.3561	0.9985	0.7427	0.6184	0.5987	0.6709	0.4415	0.5027	0.0327	0.0376	0.0375	0.0386	0.0386	0.0386
3	14.8332	7.4257	4.9823	3.7177	2.4808	1.8622	1.3581	0.9981	0.8153	0.8120	0.6194	0.6014	0.5744	0.4088	0.5015	0.0353	0.0376	0.0375	0.0386	0.0386	0.0386
4	11.5376	5.7795	3.8620	2.8955	1.9263	1.4632	1.0320	0.7719	0.6364	0.5971	0.6131	0.6102	0.5920	0.4708	0.5817	0.0381	0.0376	0.0375	0.0386	0.0386	0.0386
6	8.2946	4.1260	2.7512	2.0649	1.5056	1.0677	0.8357	0.6808	0.6311	0.6096	0.5841	0.5933	0.5922	0.3911	0.3991	0.0381	0.0376	0.0375	0.0386	0.0386	0.0386
8	6.6027	3.3010	2.2024	1.6690	1.1479	0.8311	0.6903	0.6306	0.5978	0.5924	0.6045	0.5823	0.5818	0.3881	0.3991	0.0381	0.0376	0.0375	0.0386	0.0386	0.0386
12	4.9509	2.4840	1.6435	1.2499	0.8988	0.6767	0.6098	0.6323	0.6380	0.6246	0.6077	0.5934	0.6882	0.3881	0.3991	0.0381	0.0376	0.0375	0.0386	0.0386	0.0386
16	4.1232	2.0709	1.4182	0.9937	0.7444	0.6698	0.6323	0.6250	0.6207	0.6207	0.6207	0.6207	0.6207	0.3881	0.3991	0.0381	0.0376	0.0375	0.0386	0.0386	0.0386
24	3.3382	1.7233	1.1473	0.8243	0.7662	0.6738	0.6323	0.6323	0.6323	0.6323	0.6323	0.6323	0.6323	0.3881	0.3991	0.0381	0.0376	0.0375	0.0386	0.0386	0.0386
32	2.9658	1.5833	0.9833	0.7981	0.7232	0.6473	0.6323	0.6323	0.6323	0.6323	0.6323	0.6323	0.6323	0.3881	0.3991	0.0381	0.0376	0.0375	0.0386	0.0386	0.0386
48	2.7081	1.2332	0.9006	0.8105	0.6950	0.6438	0.6323	0.6323	0.6323	0.6323	0.6323	0.6323	0.6323	0.3881	0.3991	0.0381	0.0376	0.0375	0.0386	0.0386	0.0386
64	2.2214	1.3121	0.9190	0.7499	0.7008	0.7298	0.6323	0.6323	0.6323	0.6323	0.6323	0.6323	0.6323	0.3881	0.3991	0.0381	0.0376	0.0375	0.0386	0.0386	0.0386
96	2.3421	1.3125	0.9528	0.7832	0.7310	0.6719	0.6323	0.6323	0.6323	0.6323	0.6323	0.6323	0.6323	0.3881	0.3991	0.0381	0.0376	0.0375	0.0386	0.0386	0.0386
128	1.6188	0.9420	0.6843	0.6766	0.5377	0.4791	0.6323	0.6323	0.6323	0.6323	0.6323	0.6323	0.6323	0.3881	0.3991	0.0381	0.0376	0.0375	0.0386	0.0386	0.0386
192	2.4574	1.2739	0.9788	0.9072	0.9072	0.9072	0.9072	0.9072	0.9072	0.9072	0.9072	0.9072	0.9072	0.3881	0.3991	0.0381	0.0376	0.0375	0.0386	0.0386	0.0386
256	0.0397	0.0379	0.0379	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397
384	0.0397	0.0379	0.0379	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397	0.0397
512	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368
768	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377
1024	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377

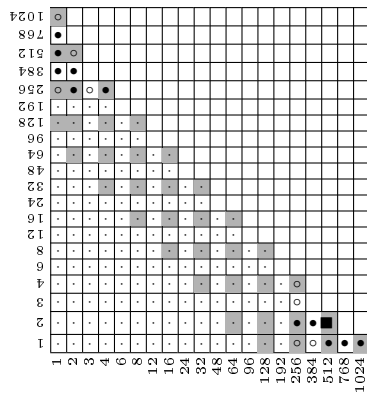


Table 242. MB11 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	352.866	181.480	120.996	90.745	60.520	45.443	30.435	22.970	15.503	11.489	9.206	5.819	4.151	3.151	3.588	3.527	3.620	3.607	4.264	3.608
2	205.338	102.651	68.462	51.355	34.249	25.729	17.217	13.015	8.788	5.818	4.431	3.517	3.585	3.551	3.616	3.603	4.284	4.088		
3	152.633	76.316	50.913	38.189	25.469	19.135	13.052	8.777	6.086	4.008	4.181	3.550	3.581	3.607	3.709	4.109				
4	126.419	63.216	42.156	31.624	21.096	15.848	9.814	6.673	4.675	4.624	3.817	3.518	3.610	3.595	4.109	3.593				
6	100.553	50.286	33.535	25.198	18.487	10.967	7.412	4.675	4.954	3.500	3.839	3.609	3.702	4.053						
8	82.868	43.822	29.225	21.931	13.886	8.279	5.926	4.369	4.362	4.314	4.077	4.034	4.039	3.591						
12	74.866	37.445	32.749	17.957	10.551	6.735	5.868	4.362	4.362	4.362	4.476	4.418								
16	68.535	34.288	24.563	13.492	10.850	7.427	5.832	4.463	4.463	4.463	4.566	3.563								
24	64.336	35.800	20.958	14.705	11.743	7.427	5.832	4.463	4.463	4.463										
32	61.696	27.171	20.918	15.109	11.454	7.427	5.832	4.463	4.463	4.463										
48	72.690	32.925	20.975	15.109	11.721	7.331	6.211	5.050	4.956	3.563										
64	104.102	43.800	22.604	15.144	11.355	7.607	6.413	4.409												
96	140.747	68.460	34.936	16.811	10.909	7.272														
128	159.170	78.688	41.516	22.373	11.127	7.924														
192	164.349	87.462	46.165	14.583																
256	189.951	94.745	44.913	28.888																
384	200.461	92.729																		
512	212.653	105.556																		
768	210.630																			
1024	225.192																			

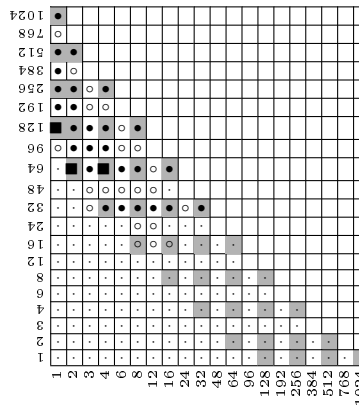


Table 243. MB11 Kepler: Without L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0563	0.0411	0.0366	0.0339	0.0306	0.0275	0.0236	0.0273	0.0259	(0.0250)	0.0317	0.0290	0.0338	0.0579	0.0587	0.0592	0.0590	0.0580	0.0573	0.0584
2	0.0416	0.0338	0.0313	0.0292	0.0285	0.0274	0.0263	(0.0252)	0.0318	0.0337	0.0328	0.0386	0.0434	0.0695	0.0568	0.0580	0.0580	0.0580	0.0580	0.0580
3	0.0370	0.0314	0.0284	0.0285	0.0276	0.0274	0.0281	0.0323	0.0349	0.0340	0.0404	0.0374	0.0481	0.0587	0.0585	0.0580	0.0580	0.0580	0.0580	0.0580
4	0.0338	0.0295	0.0282	0.0260	0.0272	0.0268	0.0309	0.0340	0.0335	0.0366	0.0434	0.0432	0.0560	0.0687	0.0582	0.0591	0.0580	0.0580	0.0580	0.0580
6	0.0315	0.0282	0.0279	0.0257	0.0281	0.0317	0.0348	0.0368	0.0327	0.0405	0.0432	0.0498	0.0522	0.0716	0.0584	0.0580	0.0580	0.0580	0.0580	0.0580
8	0.0297	0.0273	0.0271	0.0260	0.0320	0.0345	0.0348	0.0368	0.0320	0.0430	0.0526	0.0561	0.0699	0.1076	0.0695	0.0580	0.0580	0.0580	0.0580	0.0580
12	0.0259	(0.0244)	0.0272	0.0324	0.0349	0.0345	0.0395	0.0429	0.0422	0.0492	0.0552	0.0712	0.0804	0.1076	0.0695	0.0580	0.0580	0.0580	0.0580	0.0580
16	0.0273	0.0260	0.0320	0.0332	0.0344	0.0365	0.0430	0.0418	0.0518	0.0572	0.0868	0.1062	0.1105	0.1076	0.0695	0.0580	0.0580	0.0580	0.0580	0.0580
24	(0.0243)*	0.0307	0.0347	0.0325	0.0344	0.0436	0.0430	0.0430	0.0518	0.0712	0.1075	0.1062	0.1105	0.1076	0.0695	0.0580	0.0580	0.0580	0.0580	0.0580
32	0.0271	0.0328	0.0340	0.0374	0.0432	0.0507	0.0563	0.0868	0.0712	0.1075	0.1062	0.1105	0.1076	0.0695	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580
48	0.0319	0.0343	0.0408	0.0434	0.0496	0.0557	0.0716	0.1076	0.1076	0.1064	0.1062	0.1105	0.1076	0.0695	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580
64	0.0288	0.0337	0.0380	0.0426	0.0508	0.0686	0.0800	0.1012	0.1012	0.1064	0.1062	0.1105	0.1076	0.0695	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580
96	0.0344	0.0432	0.0497	0.0566	0.0713	0.1070	0.1070	0.1070	0.1070	0.1064	0.1062	0.1105	0.1076	0.0695	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580
128	0.0569	0.0587	0.0578	0.0590	0.0587	0.0571	0.0571	0.0571	0.0571	0.0571	0.0571	0.0571	0.0571	0.0571	0.0571	0.0571	0.0571	0.0571	0.0571	0.0571
192	0.0597	0.0588	0.0566	0.0578	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581	0.0581
256	0.0580	0.0574	0.0581	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
384	0.0580	0.0566	0.0581	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
512	0.0574	0.0592	0.0581	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
768	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580	0.0580
1024	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588

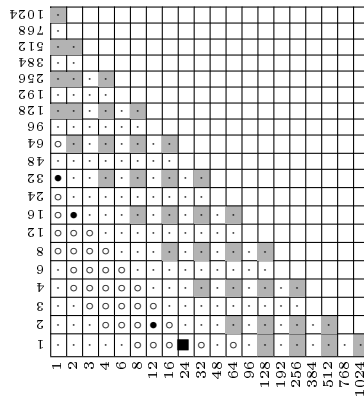


Table 244. MB12 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1352	0.0754	0.0558	0.0448	0.0340	0.0272	0.0230	0.0188	0.0172	(0.0148)	0.0326	0.0320	0.0400	0.0365	0.0396	0.0380	0.0372	0.0375	0.0378	0.0374
2	0.0754	0.0447	0.0338	0.0271	0.0230	0.0187	0.0173	(0.0149)	0.0325	0.0320	0.0322	0.0437	0.0592	0.0675	0.1275	0.0398	0.0367	0.0358		
3	0.0556	0.0339	0.0268	0.0230	0.0192	0.0173	0.0191	0.0334	0.0389	0.0397	0.0601	0.0694	0.0991	0.0907	0.1938	0.0374				
4	0.0447	0.0271	0.0231	0.0187	0.0172	(0.0148)	0.0327	0.0319	0.0394	0.0498	0.0695	0.0992	0.1275	0.1348	0.2505	0.0368				
6	0.0340	0.0231	0.0193	0.0173	0.0191	0.0325	0.0390	0.0390	0.0600	0.0694	0.0991	0.1275	0.1937	0.1701						
8	0.0272	0.0187	0.0173	(0.0148)	0.0324	0.0319	0.0396	0.0693	0.0696	0.0920	0.1275	0.1695	0.2506	0.2176						
12	0.0231	0.0172	0.0191	0.0326	0.0388	0.0390	0.0396	0.0390	0.0693	0.0924	0.1275	0.1940	0.2505							
16	0.0187	(0.0148)	0.0326	0.0320	0.0393	0.0494	0.0696	0.0696	0.0929	0.1277	0.1693	0.2507	0.3524							
24	0.0173	0.0320	0.0388	0.0388	0.0602	0.0692	0.0994	0.0692	0.1277	0.1937	0.2506									
32	(0.0148)*	0.0394	0.0391	0.0498	0.0692	0.0919	0.1276	0.1276	0.1695	0.2505	0.3528									
48	0.0326	0.0394	0.0600	0.0706	0.0997	0.1275	0.1935	0.1935	0.2506											
64	0.0320	0.0495	0.0706	0.0923	0.1275	0.1695	0.2506													
96	0.0394	0.0693	0.0995	0.1276	0.1938	0.2506														
128	0.0384	0.0674	0.0995	0.1276	0.1938	0.2509														
192	0.0394	0.1276	0.1939	0.2509	0.1701	0.2175														
256	0.0376	0.0379																		
384	0.0378	0.0380	0.0396	0.0408																
512	0.0380	0.0391																		
768	0.0372																			
1024	0.0377																			

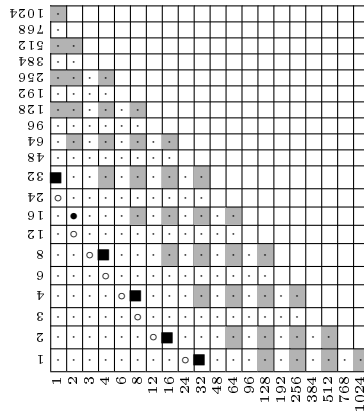


Table 245. MB12 Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	164.649	87.548	62.356	47.320	33.140	24.901	19.176	14.161	11.677	(8.877)	25.961	24.886	29.475	38.808	57.872	76.750	115.174	152.892	240.049	306.302
2	87.548	47.321	33.107	24.942	19.176	14.163	11.677	(8.863)	25.960	24.883	29.474	38.807	57.871	76.751	115.174	152.880	239.900	305.976		
3	62.351	33.102	23.904	19.187	14.152	11.678	12.612	25.960	29.863	29.476	48.465	57.871	86.452	115.173	176.999	240.232				
4	47.351	24.899	19.198	14.147	11.678	(8.864)	25.965	24.884	29.475	38.810	57.873	76.748	115.174	152.881	240.172	305.987				
6	33.104	19.177	14.137	11.679	12.613	25.959	29.863	29.473	48.464	57.872	86.452	115.177	176.992	240.176						
8	24.907	14.148	11.688	(8.863)*	25.960	24.884	29.475	38.811	57.873	76.749	115.179	176.993	239.879							
12	19.177	11.678	12.613	25.960	29.862	29.476	48.464	57.874	86.454	115.179	176.993	239.879								
16	14.157	(8.866)	25.961	29.860	29.476	48.462	57.873	76.748	115.178	176.994	240.194									
24	11.676	24.884	29.473	38.807	57.871	76.749	115.172	176.996	239.933											
32	(8.865)	29.477	48.462	57.873	76.749	115.177	152.874	240.156	306.332											
48	24.885	38.806	57.873	76.749	115.176	152.874	240.156	306.332												
64	29.477	57.871	86.449	115.174	182.874	239.912	306.363													
96	38.809	76.748	115.176	176.995	240.161															
128	57.870	115.176	176.995	240.161																
192	86.448	152.893	240.019	306.333																
256	115.172	239.918																		
384	152.887	305.940																		
512	240.004																			
768																				
1024																				

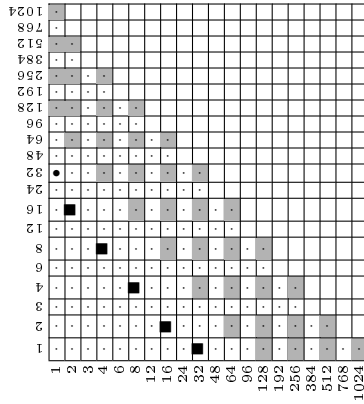


Table246. MB12 Kepler: Normal L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.0324	0.0374	0.0325	0.0298	0.0276	0.0253	0.0246	0.0239	0.0239	(0.0223)	(0.0220)	0.0238	0.0250	0.0268	0.0286	0.0286	0.0286	0.0286	0.0286	0.0286	0.0286
2	0.0378	0.0300	0.0278	0.0260	0.0247	(0.0227)	(0.0235)	(0.0220)	0.0279	0.0303	0.0305	0.0301	0.0322	0.0345	0.0365	0.0377	0.0374	0.0374	0.0374	0.0374	0.0374
3	0.0327	0.0276	0.0244	0.0250	(0.0237)	(0.0234)	(0.0237)	0.0281	0.0307	0.0304	0.0370	0.0344	0.0435	0.0445	0.0549	0.0577	0.0566	0.0574	0.0574	0.0574	0.0574
4	0.0301	0.0252	0.0252	0.0250	(0.0235)	(0.0234)	0.0271	0.0269	0.0298	0.0301	0.0324	0.0392	0.0530	0.0576	0.0566	0.0572	0.0572	0.0572	0.0572	0.0572	0.0572
6	0.0274	0.0249	0.0241	(0.0229)	0.0241	0.0281	0.0313	0.0301	0.0380	0.0365	0.0443	0.0486	0.0590	0.0676	0.0590	0.0572	0.0572	0.0572	0.0572	0.0572	0.0572
8	0.0259	(0.0237)	(0.0230)	(0.0226)	0.0242	0.0270	0.0298	0.0302	0.0397	0.0466	0.0528	0.0590	0.1031	0.0571							
12	0.0250	(0.0233)	0.0242	0.0280	0.0300	0.0304	0.0386	0.0389	0.0454	0.0523	0.0678	0.0766									
16	(0.0234)	(0.0231)	0.0301	0.0299	0.0303	0.0392	0.0396	0.0480	0.0525	0.0825	0.1034	0.0970									
24	(0.0233)	0.0270	0.0305	0.0306	0.0325	0.0390	0.0452	0.0527	0.0664	0.1032											
32	(0.0229)	0.0304	0.0317	0.0392	0.0395	0.0477	0.0522	0.0826	0.1043	0.1594											
48	0.0284	0.0302	0.0379	0.0389	0.0455	0.0528	0.0673	0.1038													
64	0.0249	0.0298	0.0347	0.0392	0.0482	0.0596	0.0761	0.0977													
96	0.0307	0.0396	0.0457	0.0515	0.0678	0.1045															
128	0.0579	0.0564	0.0571	0.0569	0.0566	0.0571															
192	0.0567	0.0564	0.0573	0.0580																	
256	0.0568	0.0569	0.0572	0.0568																	
384	0.0556	0.0569																			
512	0.0594																				
768	0.0572																				
1024	0.0567																				

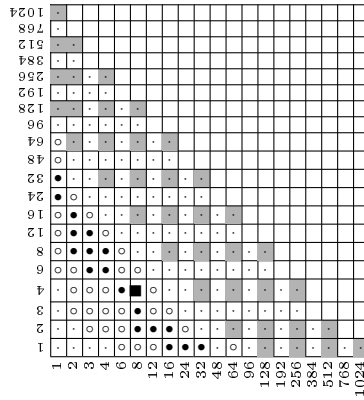


Table 247. MB12 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024	
1	0.1353	0.0755	0.0557	0.0447	0.0338	0.0272	0.0230	0.0187	0.0173	(0.0149)	0.0327	0.0320	0.0393	0.0365	0.0693	0.0417	0.0408	0.0412	0.0412	0.0413	0.0415
2	0.0755	0.0448	0.0337	0.0271	0.0231	0.0187	0.0174	(0.0149)	0.0329	0.0320	0.0327	0.0494	0.0393	0.0676	0.1275	0.0408	0.0412	0.0412	0.0412	0.0413	0.0415
3	0.0557	0.0340	0.0238	0.0230	0.0192	0.0173	0.0192	0.0330	0.0389	0.0397	0.0692	0.0708	0.0994	0.0905	0.1938	0.0416	0.0412	0.0412	0.0412	0.0413	0.0415
4	0.0340	0.0271	0.0230	0.0188	0.0173	(0.0149)	0.0326	0.0319	0.0395	0.0496	0.0693	0.0921	0.1276	0.1359	0.2508	0.0405	0.0412	0.0412	0.0412	0.0413	0.0415
6	0.0272	0.0188	0.0173	0.0174	0.0191	0.0325	0.0396	0.0399	0.0599	0.0923	0.0922	0.1276	0.1698	0.1704	0.2508	0.0405	0.0412	0.0412	0.0412	0.0413	0.0415
8	0.0272	0.0173	0.0191	(0.0149)	0.0326	0.0319	0.0396	0.0693	0.0694	0.0923	0.1275	0.1939	0.2508	0.2174	0.2508	0.0405	0.0412	0.0412	0.0412	0.0413	0.0415
12	0.0231	0.0173	0.0326	0.0321	0.0394	0.0395	0.0399	0.0692	0.0921	0.1275	0.1695	0.2506	0.3524								
16	0.0188	(0.0149)	0.0328	0.0322	0.0394	0.0492	0.0395	0.0692	0.0921	0.1275	0.1695	0.2506	0.3524								
24	0.0172	0.0320	0.0338	0.0302	0.0500	0.0692	0.0395	0.0692	0.0921	0.1275	0.1695	0.2506	0.3524								
32	(0.0149)*	0.0325	0.0395	0.0304	0.0500	0.0921	0.1276	0.1694	0.2510	0.3523											
48	0.0320	0.0495	0.0695	0.0695	0.0992	0.1275	0.1698	0.2507	0.3522												
64	0.0320	0.0495	0.0695	0.0695	0.0992	0.1275	0.1698	0.2507	0.3522												
96	0.0320	0.0495	0.0695	0.0695	0.0992	0.1275	0.1698	0.2507	0.3522												
128	0.0320	0.0495	0.0695	0.0695	0.0992	0.1275	0.1698	0.2507	0.3522												
192	0.0320	0.0495	0.0695	0.0695	0.0992	0.1275	0.1698	0.2507	0.3522												
256	0.0320	0.0495	0.0695	0.0695	0.0992	0.1275	0.1698	0.2507	0.3522												
384	0.0320	0.0495	0.0695	0.0695	0.0992	0.1275	0.1698	0.2507	0.3522												
512	0.0320	0.0495	0.0695	0.0695	0.0992	0.1275	0.1698	0.2507	0.3522												
768	0.0320	0.0495	0.0695	0.0695	0.0992	0.1275	0.1698	0.2507	0.3522												
1,024	0.0320	0.0495	0.0695	0.0695	0.0992	0.1275	0.1698	0.2507	0.3522												

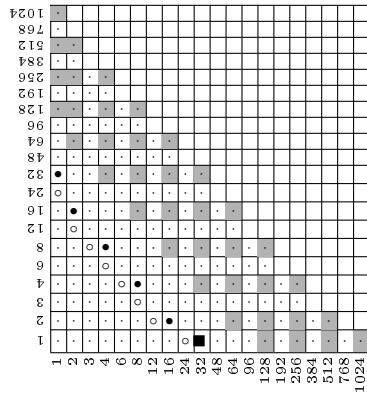


Table248. MB12 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	164.688	87.684	62.363	47.356	33.093	24.904	19.174	14.122	11.665	(8.859)	25.952	24.882	29.458	38.794	57.859	76.748	115.164	152.882	240.330	306.248
2	87.681	47.330	33.093	24.905	19.174	14.160	11.665	(8.857)	25.956	24.882	29.458	38.794	57.859	76.748	115.164	152.883	240.265	306.376		
3	62.376	33.094	23.930	19.179	14.139	11.663	12.589	25.952	29.840	29.458	48.453	57.859	86.447	115.164	176.979	240.119				
4	47.353	24.904	19.174	14.124	11.663	(8.855)	25.956	24.883	29.458	38.798	57.859	76.749	115.165	152.877	239.896	306.353				
6	33.098	19.174	14.125	11.665	12.591	25.955	29.841	29.438	48.453	57.858	86.447	115.161	176.975	240.284						
8	24.937	14.141	11.664	(8.854)	25.952	24.885	29.458	38.794	57.858	76.747	115.165	182.891	240.151	306.248						
12	19.174	11.665	12.592	25.957	29.840	29.457	48.455	57.859	86.448	115.168	176.979	240.275								
16	14.141	(8.851)*	25.952	24.881	29.458	38.794	57.859	86.448	115.166	182.880	240.236	306.221								
24	11.665	25.952	29.840	29.457	48.453	57.859	86.448	115.168	176.979	240.240										
32	(8.857)	24.882	29.458	38.794	57.859	86.449	115.166	176.973	240.238											
48	25.952	29.458	48.452	57.859	86.449	115.165	152.891													
64	24.882	38.798	57.858	86.449	115.172	176.975	239.893													
96	29.458	57.858	86.449	115.172	176.975	239.893														
128	38.794	76.747	115.165	182.871	240.135															
192	57.859	115.166	176.974	240.135																
256	76.748	152.873	240.295	305.665																
384	115.164	240.241																		
512	152.871	306.345																		
768	240.201																			
1024	306.266																			

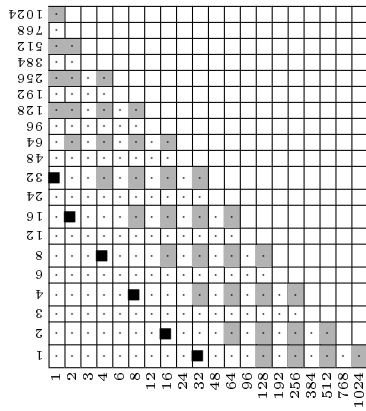


Table 249. MB12 Kepler: Increased L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0556	0.0402	0.0364	0.0335	0.0312	0.0322	0.0304	0.0295	0.0287	0.0294	0.0425	0.0370	0.0437	0.0590	0.0577	0.0596	0.0591	0.0592	0.0573	0.0567
2	0.0494	0.0325	0.0314	0.0314	0.0305	0.0291	0.0284	0.0277	0.0423	0.0502	0.0438	0.0508	0.0631	0.0592	0.0594	0.0594	0.0591			
3	0.0343	0.0318	0.0301	0.0308	0.0291	0.0290	0.0307	0.0417	0.0383	0.0438	0.0529	0.0631	0.0820	0.0586	0.0610	0.0574				
4	0.0322	0.0314	0.0300	0.0283	0.0285	0.0300	0.0434	0.0501	0.0447	0.0507	0.0839	0.0765	0.1025	0.0592	0.0590	0.0591				
6	0.0320	0.0308	0.0288	0.0273	0.0309	0.0421	0.0404	0.0427	0.0542	0.0642	0.0832	0.1023	0.1428	0.0587						
8	0.0311	0.0281	0.0290	0.0296	0.0436	0.0500	0.0444	0.0485	0.0638	0.0777	0.1031	0.1265	0.1855	0.0589						
12	0.0307	0.0286	0.0307	0.0438	0.0403	0.0441	0.0543	0.0642	0.0838	0.1019	0.1421	0.1808								
16	0.0292	0.0294	0.0440	0.0499	0.0439	0.0510	0.0638	0.0776	0.1033	0.1297	0.1863	0.2320								
24	0.0294	0.0507	0.0441	0.0438	0.0524	0.0640	0.0836	0.1036	0.1409	0.1848										
32	0.0424	0.0437	0.0536	0.0607	0.0837	0.1030	0.1404	0.1826	0.1843	0.2814										
48	0.0373	0.0607	0.0632	0.0767	0.1025	0.1289	0.1792	0.2332												
96	0.0436	0.0641	0.0828	0.1033	0.1423	0.1840														
128	0.0569	0.0598	0.0593	0.0574	0.0572	0.0578	0.0574													
256	0.0581	0.0581	0.0578	0.0588																
384	0.0583	0.0577																		
512	0.0595	0.0588																		
768	0.0591																			
1024	0.0585																			

Columns	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1
2
3
4
6
8
12
16
24
32
48
64
96
128
192
256
384
512
768
1024

Table250. MB12 Kepler: Without L1, size 96×96, milliseconds.

1	0.1340	0.0728	0.0543	0.0440	0.0387	0.0372	0.0348	0.0284	0.0259	0.0250	0.0237	0.0213	0.0683	0.1292	0.0364	0.0377	0.0418	0.0372	0.0384	1.024
2	0.0730	0.0440	0.0387	0.0372	0.0348	0.0283	0.0243	0.0230	0.0218	0.0200	0.0185	0.0171	0.0688	0.1292	0.0364	0.0377	0.0418	0.0372	0.0384	
3	0.0543	0.0388	0.0341	0.0347	0.0284	0.0269	0.0257	0.0238	0.0218	0.0200	0.0185	0.0171	0.0688	0.1292	0.0364	0.0377	0.0418	0.0372	0.0384	
4	0.0440	0.0373	0.0347	0.0284	0.0269	0.0257	0.0238	0.0218	0.0200	0.0185	0.0171	0.0688	0.1292	0.0364	0.0377	0.0418	0.0372	0.0384		
6	0.0389	0.0348	0.0283	0.0269	0.0257	0.0238	0.0218	0.0200	0.0185	0.0171	0.0688	0.1292	0.0364	0.0377	0.0418	0.0372	0.0384			
8	0.0374	0.0283	0.0269	0.0257	0.0238	0.0218	0.0200	0.0185	0.0171	0.0688	0.1292	0.0364	0.0377	0.0418	0.0372	0.0384				
12	0.0348	0.0269	0.0257	0.0238	0.0218	0.0200	0.0185	0.0171	0.0688	0.1292	0.0364	0.0377	0.0418	0.0372	0.0384					
16	0.0283	0.0257	0.0238	0.0218	0.0200	0.0185	0.0171	0.0688	0.1292	0.0364	0.0377	0.0418	0.0372	0.0384						
24	0.0269	0.0257	0.0238	0.0218	0.0200	0.0185	0.0171	0.0688	0.1292	0.0364	0.0377	0.0418	0.0372	0.0384						
32	0.0248	0.0238	0.0218	0.0200	0.0185	0.0171	0.0688	0.1292	0.0364	0.0377	0.0418	0.0372	0.0384							
48	0.0689	0.0714	0.1070	0.1292	0.1931	0.2524	0.3816	0.4931	0.6809	0.8882	1.1714	1.5920	2.1260	2.8522	3.8112	5.0375	6.6116	8.6116	11.1116	14.4444
64	0.0735	0.0890	0.1293	0.1718	0.2524	0.3816	0.4931	0.6809	0.8882	1.1714	1.5920	2.1260	2.8522	3.8112	5.0375	6.6116	8.6116	11.1116	14.4444	18.5185
96	0.0713	0.1111	0.1929	0.2524	0.3816	0.4931	0.6809	0.8882	1.1714	1.5920	2.1260	2.8522	3.8112	5.0375	6.6116	8.6116	11.1116	14.4444	18.5185	23.6842
128	0.0630	0.1257	0.1716	0.2826	0.3314	0.4519	0.5812	0.7212	0.8812	1.0812	1.3212	1.6012	1.9212	2.2812	2.6812	3.1212	3.6012	4.1212	4.6812	5.2812
192	0.1291	0.2521	0.3818	0.4933	0.6381	0.7812	0.9312	1.0812	1.2312	1.3812	1.5312	1.6812	1.8312	1.9812	2.1312	2.2812	2.4312	2.5812	2.7312	2.8812
256	0.0375	0.0374	0.0380	0.0381	0.0382	0.0383	0.0384	0.0385	0.0386	0.0387	0.0388	0.0389	0.0390	0.0391	0.0392	0.0393	0.0394	0.0395	0.0396	0.0397
384	0.0375	0.0374	0.0380	0.0381	0.0382	0.0383	0.0384	0.0385	0.0386	0.0387	0.0388	0.0389	0.0390	0.0391	0.0392	0.0393	0.0394	0.0395	0.0396	0.0397
512	0.0394	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384
768	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366	0.0366
1024	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376

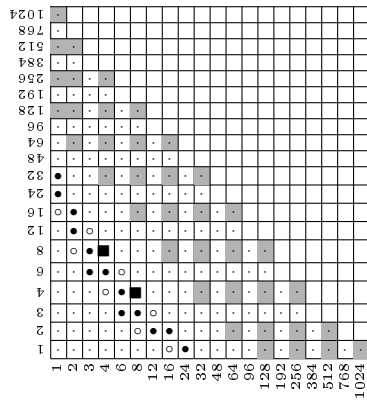


Table 251. MB12 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	168.21	87.43	61.95	47.02	38.54	35.31	32.76	26.17	(23.69)	(22.68)*	66.91	66.18	66.66	72.60	110.90	143.64	220.00	282.41	498.56	535.94	
2	87.43	46.98	38.54	35.36	32.76	26.17	(23.70)	(22.67)	66.92	66.19	66.66	72.49	110.90	143.63	220.03	281.99	498.74	535.74			
3	61.94	38.54	31.73	32.76	24.17	(23.69)	25.43	66.91	67.20	66.65	92.89	110.89	162.97	220.02	342.28	498.79					
4	46.98	35.31	32.76	26.17	(23.69)	25.42	66.91	67.21	66.65	92.90	110.90	143.63	220.01	282.44	498.55	536.08					
6	38.54	32.76	24.16	(23.69)	(22.66)	68.92	68.66	72.49	110.89	143.63	220.01	282.47	498.45	535.88							
8	35.32	26.17	(23.69)	25.42	68.93	67.22	66.66	72.50	110.89	162.98	220.01	281.81	498.39	536.02							
12	26.17	(22.66)	68.91	68.18	66.66	72.50	110.90	143.63	220.01	281.81	498.55	535.71									
16	(23.69)	68.92	67.21	66.65	92.90	110.90	162.98	220.00	342.20	498.68											
24	(22.66)	68.18	66.65	72.50	110.89	143.63	220.00	282.51	498.51												
32	(22.66)	68.66	92.89	110.89	162.97	220.02	342.23	498.64													
48	66.93	68.66	92.89	110.89	162.97	220.02	342.23	498.64													
64	66.19	72.49	110.90	143.64	220.01	282.41	498.57	535.75													
96	66.66	110.90	162.97	220.01	341.97	498.50															
128	110.90	220.00	342.20	498.78																	
192	110.90	220.00	342.20	498.78																	
256	143.64	282.21	498.57	535.77																	
384	220.00	498.82																			
512	282.15	535.78																			
768	498.73																				
1024	535.91																				

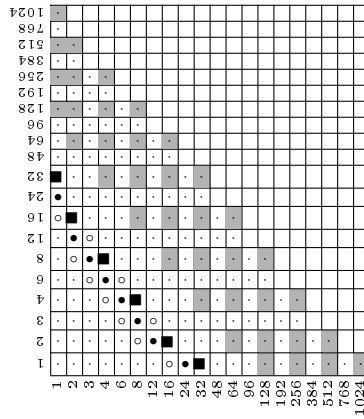


Table 252. MB12 Kepler: Without L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.0627	0.0457	0.0395	0.0536	0.0337	0.0323	0.0480	0.0481	0.0294	0.0281	0.0286	(0.0269)	(0.0273)	0.1287	0.0724	0.0719	0.0712	0.0725	0.0720	0.0724	
2	0.0461	0.0367	0.0337	0.0318	0.0307	0.0296	0.0292	0.0288	0.0442	0.0282	0.0276	0.0277	(0.0275)	0.0731	0.0726	0.1246	0.1265	0.0876			
3	0.0405	0.0346	0.0323	0.0480	0.0295	0.0260	0.0458	0.0481	0.0289	0.0440	(0.0273)	0.0281	(0.0273)	0.1253	0.0731	0.0723					
4	0.0548	0.0321	0.0317	0.0305	0.0282	0.0286	0.0286	0.0283	0.0276	0.0446	0.0280	0.0446	0.0443	0.0740	0.1255	0.1243					
6	0.0349	0.0319	0.0305	0.0294	0.0287	0.0285	0.0286	(0.0274)	0.0458	0.0280	0.0451	(0.0262)*	0.0276	0.0731							
8	0.0340	0.0308	0.0469	0.0292	0.0282	0.0448	(0.0274)	0.0280	0.0452	0.0418	0.0438	(0.0276)	(0.0270)	0.0722							
12	0.0323	0.0459	0.0291	0.0286	0.0280	(0.0274)	(0.0274)	0.0277	0.0279	0.0454	0.0278	(0.0276)	0.0276								
16	0.0321	0.0309	0.0292	0.0286	(0.0274)	0.0446	(0.0272)	0.0289	0.0472	(0.0257)	(0.0277)	0.0276									
24	0.0314	0.0284	0.0293	0.0280	0.0287	0.0289	0.0283	0.0472	0.0276	0.0276											
32	0.0480	0.0444	0.0301	(0.0264)	0.0466	0.0275	0.0446	(0.0269)													
48	0.0306	0.0281	0.0449	(0.0274)	0.0444	0.0452	(0.0273)	(0.0272)													
64	0.0294	0.0281	0.0446	(0.0264)	0.0276	(0.0267)	(0.0267)	(0.0267)													
96	0.0292	0.0287	0.0278	0.0275	0.0282	(0.0274)	(0.0274)	0.0445													
128	0.0706	0.0721	0.0724	0.0719	0.0724	0.0728	0.0728														
192	0.0721	0.0721	0.0730	0.0719	0.0724	0.0728	0.0728														
256	0.1254	0.0722		0.0711																	
384	0.0721	0.0727																			
512	0.1261	0.0749																			
768	0.0725																				
1024	0.0738																				

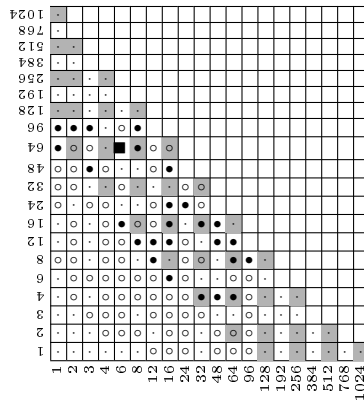


Table253. MB13 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1633	0.0920	0.0569	0.0556	0.0332	0.0272	0.0331	0.0184	0.0154	0.0140	0.0237	0.0235	0.0111	(0.0105)	0.0205	0.0487	0.1012	0.0476	0.0492	0.1023
2	0.0938	0.0459	0.0340	0.0277	0.0218	0.0293	0.0267	0.0253	0.0127	0.0118	0.0225	0.0106	(0.0105)	(0.0101)*	0.0201	0.0483	0.0489			
3	0.0815	0.0355	0.0268	0.0224	0.0182	0.0278	0.0440	0.0233	0.0118	0.0118	0.0219	(0.0104)	(0.0210)	(0.0102)	0.0114	0.0483				
4	0.0510	0.0303	0.0339	0.0311	0.0165	0.0251	0.0245	0.0246	0.0113	0.0238	(0.0105)	0.0249	(0.0104)	(0.0102)	0.0219	0.1009				
6	0.0439	0.0363	0.0305	0.0172	0.0149	0.0235	0.0120	0.0222	(0.0106)	0.0211	(0.0105)	(0.0104)	0.0110	(0.0104)						
8	0.0465	0.0350	0.0181	0.0268	0.0133	0.0121	0.0116	0.0109	(0.0105)	(0.0103)	0.0217	(0.0106)	0.0106	(0.0105)						
12	0.0303	0.0228	0.0281	0.0139	0.0124	0.0114	0.0111	(0.0105)	0.0238	(0.0104)	0.0219	0.0116								
16	0.0277	0.0208	0.0146	0.0237	0.0118	0.0108	0.0108	(0.0105)	0.0199	(0.0104)	0.0219	0.0116								
24	0.0248	0.0157	0.0134	0.0230	0.0115	0.0108	0.0210	(0.0105)	0.0111	0.0106	0.0219	0.0116								
32	0.0236	0.0142	0.0233	0.0421	0.0115	0.0107	0.0217	(0.0105)	0.0111	0.0106	0.0219	0.0116								
48	0.0199	0.0136	0.0129	0.0115	0.0234	0.0109	0.0114	0.0109	0.0111	0.0106	0.0219	0.0116								
64	0.0187	0.0243	0.0129	0.0223	0.0118	0.0108	0.0112	0.0108	0.0107	0.0106	0.0219	0.0116								
96	0.0183	0.0137	0.0244	0.0121	0.0122	0.0110														
128	0.0155	0.0128	0.0122	0.0114	0.0111	0.0107														
192	0.0184	0.0267	0.0145	0.0240																
256	0.0991	0.0486	0.1011	0.1027																
384	0.1002	0.1021																		
512	0.0488	0.0488																		
768	0.0488																			
1024	0.0487																			

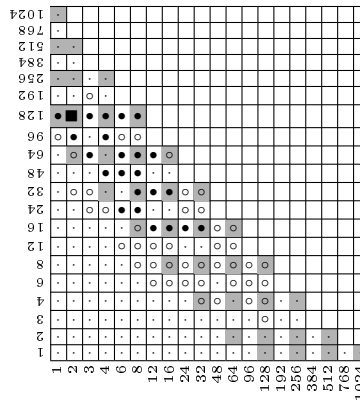


Table 254. MB13 Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	145.413	72.712	48.478	36.361	24.244	18.185	12.127	9.098	6.070	4.554	3.054	2.282	1.564	(1.352)	(1.320)	(1.346)	(1.364)	(1.354)	1.463	2.675	
2	74.920	37.467	25.066	18.675	12.550	9.341	6.332	4.694	3.250	2.282	1.661	(1.353)	(1.328)	(1.343)	(1.363)	(1.361)	(1.354)	1.463	2.675		
3	53.107	26.654	17.859	13.283	8.989	6.974	4.641	3.164	2.263	1.570	1.385	(1.326)	(1.363)	(1.353)	(1.353)	1.617	1.463	2.675			
4	42.581	21.219	14.292	10.651	7.183	5.332	3.481	2.381	1.740	(1.353)	(1.361)	(1.344)	(1.357)	(1.353)	1.463	2.675					
6	31.959	15.984	10.741	7.972	5.522	3.933	2.527	1.668	1.495	(1.325)*	(1.365)	(1.360)	(1.364)	(1.358)	1.464	2.676					
8	26.700	13.351	8.981	6.685	4.144	2.708	1.945	1.392	(1.360)	(1.362)	(1.345)	(1.351)	1.464	2.676							
12	21.415	10.712	7.064	4.533	2.926	1.905	1.667	1.360	1.401	(1.362)	(1.345)	(1.357)	1.464	2.676							
16	18.769	9.403	5.313	3.428	2.451	1.822	1.598	1.368	1.393	(1.357)	1.546	2.671									
24	16.293	6.417	4.129	2.734	2.426	1.538	1.637	(1.374)	1.783	1.463											
32	14.882	5.103	3.814	2.608	2.345	1.836	1.607	1.492	1.650	2.671											
48	10.280	4.759	3.654	2.608	2.720	1.818	2.007	1.566													
64	9.247	4.680	3.517	2.799	2.452	1.824	1.847	2.868													
96	9.047	4.455	4.018	2.787	3.042	1.842															
128	9.098	5.190	4.520	2.861	2.799	3.215															
192	10.952	6.898	5.672	3.993																	
256	12.902	8.048	7.379	4.528																	
384	16.630	10.660																			
512	22.044	11.288																			
768	28.624																				
1024	81.212																				

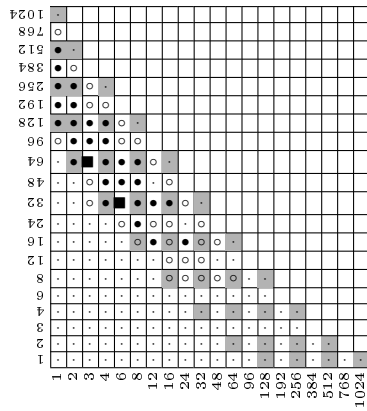


Table 255. MB13 Kepler: Normal L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0626	0.0468	0.0408	0.0357	0.0345	0.0314	0.0304	0.0296	0.0286	0.0282	0.0280	(0.0267)	(0.0266)	0.0739	0.0731	0.0731	0.0728	0.0720	0.0728	0.0731
2	0.0456	0.0370	0.0353	0.0326	0.0314	0.0300	0.0286	0.0285	0.0285	(0.0278)	0.0280	(0.0277)	(0.0277)	0.0726	0.0733	0.0743	0.0728	0.0730		
3	0.0404	0.0349	0.0326	0.0307	0.0405	0.0293	0.0284	0.0282	0.0279	0.0282	(0.0271)	0.0426	(0.0277)	0.0724	0.0733	0.0729				
4	0.0384	0.0332	0.0312	0.0300	0.0286	0.0283	0.0291	(0.0278)	(0.0276)	0.0286	(0.0273)	(0.0270)	(0.0273)	0.0892	0.0737	0.0897				
6	0.0353	0.0310	0.0300	0.0296	0.0286	0.0282	0.0284	(0.0276)	(0.0276)	(0.0265)	(0.0267)	(0.0273)	(0.0270)	0.0722						
8	0.0337	0.0311	0.0306	0.0295	0.0292	0.0288	(0.0275)	(0.0276)	(0.0276)	(0.0266)	(0.0277)	(0.0278)	(0.0271)	0.0727						
12	0.0321	0.0309	0.0287	0.0282	0.0283	0.0279	(0.0270)	(0.0270)	(0.0269)	(0.0272)	(0.0273)	(0.0275)	0.0286							
16	0.0316	0.0282	0.0281	0.0281	(0.0276)	(0.0278)	0.0279	(0.0270)	(0.0270)	(0.0272)	(0.0273)	(0.0275)								
24	0.0308	0.0293	(0.0278)	(0.0274)	(0.0273)	(0.0273)	0.0285	(0.0270)	(0.0268)	(0.0271)										
32	0.0301	0.0286	0.0285	(0.0270)	0.0289	0.0285	(0.0274)	(0.0270)	(0.0268)	(0.0271)										
48	0.0291	0.0290	0.0292	(0.0270)	0.0284	(0.0270)	(0.0270)	(0.0270)	(0.0268)	(0.0271)										
64	0.0292	0.0282	(0.0276)	(0.0277)	(0.0276)	(0.0270)	(0.0270)	(0.0270)	(0.0268)	(0.0271)										
96	0.0727	0.0741	0.0736	0.0739	0.0737	0.0746														
128	0.0739	0.0741	0.0746	0.0733																
192	0.0712	0.0718	0.0728	0.0736																
256	0.0734	0.0722		0.0736																
384	0.0734	0.0736	0.0728	0.0736																
512	0.0726	0.0736																		
768	0.0731																			
1024	0.0742																			

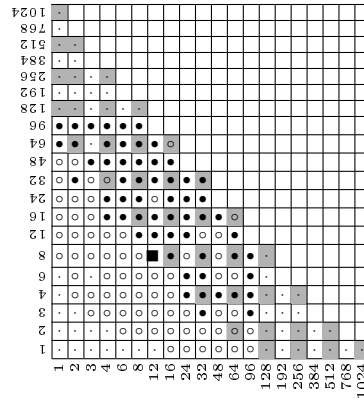


Table256. MB13 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.1521	0.0812	0.0575	0.0457	0.0338	0.0280	0.0220	0.0190	0.0160	0.0146	0.0133	0.0124	0.0116	(0.0110)	(0.0113)	0.0518	0.0510	0.0521	0.0523	0.0530
2	0.0828	0.0466	0.0345	0.0284	0.0223	0.0192	0.0162	0.0147	0.0133	0.0123	0.0118	0.0116	(0.0112)	(0.0109)*	(0.0111)	0.0507	0.0522	0.0511		
3	0.0818	0.0359	0.0275	0.0230	0.0189	0.0166	0.0148	0.0133	0.0124	0.0118	(0.0114)	(0.0112)	(0.0111)	(0.0110)	0.0117	0.0512				
4	0.0515	0.0307	0.0240	0.0205	0.0172	0.0153	0.0135	0.0125	0.0119	0.0115	(0.0112)	(0.0111)	(0.0111)	(0.0111)	(0.0114)	0.0500				
6	0.0412	0.0257	0.0206	0.0181	0.0155	0.0137	0.0126	0.0118	0.0115	(0.0113)	(0.0112)	(0.0111)	(0.0111)	(0.0111)						
8	0.0361	0.0232	0.0189	0.0167	0.0143	0.0128	0.0124	0.0115	(0.0113)	(0.0111)	(0.0111)	(0.0111)	(0.0111)	(0.0112)						
12	0.0309	0.0204	0.0169	0.0146	0.0130	0.0120	0.0117	(0.0113)	(0.0112)	(0.0111)	0.0119	(0.0113)	(0.0114)							
16	0.0285	0.0191	0.0152	0.0134	0.0122	0.0118	0.0115	(0.0113)	(0.0112)	(0.0111)	(0.0114)	0.0122								
24	0.0254	0.0163	0.0142	0.0127	0.0122	0.0115	0.0115	(0.0113)	(0.0112)	(0.0111)										
32	0.0242	0.0150	0.0137	0.0127	0.0124	0.0116	0.0115	(0.0112)	(0.0111)											
48	0.0205	0.0143	0.0136	0.0121	0.0123	0.0115	0.0121	0.0114	(0.0114)	0.0122										
64	0.0194	0.0149	0.0146	0.0125	0.0125	0.0115	0.0115	0.0126												
96	0.0187	0.0148	0.0146	0.0125	0.0130	0.0117		0.0117												
128	0.0162	0.0138	0.0125	0.0121	0.0118	(0.0114)														
192	0.0207	0.0153	0.0151	0.0130																
256	0.0513	0.0508	0.0521	0.0512																
384	0.0505	0.0530																		
512	0.0510	0.0670																		
768	0.0508																			
1,024	0.0509																			

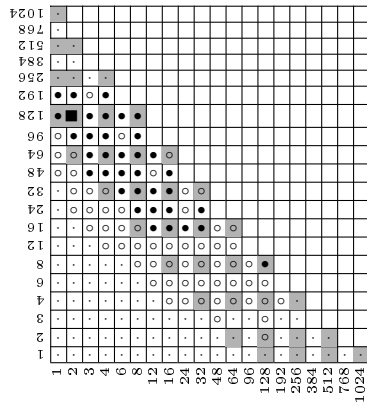


Table 257. MB13 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	145.414	72.712	48.479	36.361	24.245	18.186	12.128	9.098	6.071	4.555	3.052	2.283	1.568	(1.352)	(1.320)	(1.343)	(1.366)	(1.360)	1.465	2.646
2	74.563	37.262	25.022	18.773	12.532	9.361	6.322	4.686	3.255	2.283	1.650	(1.327)	(1.350)	(1.344)	(1.350)	(1.352)	1.464	2.681		
3	53.047	26.525	17.828	13.312	8.976	6.361	4.620	3.150	2.268	1.569	1.485	(1.327)	(1.350)	(1.344)	(1.350)	1.465	2.675			
4	42.375	21.189	14.222	10.684	7.178	5.328	3.468	2.377	1.736	(1.327)	(1.366)	(1.365)	(1.365)	(1.365)	1.465	2.675				
6	31.924	15.914	10.725	7.984	5.530	3.888	2.520	1.661	1.495	(1.327)	(1.366)	(1.365)	(1.365)	1.464	2.646					
8	26.606	13.243	8.970	6.668	4.150	2.706	1.938	(1.360)	(1.369)	(1.369)	(1.369)	1.464	2.646							
12	21.449	10.726	7.042	4.517	2.935	1.900	1.663	(1.360)	(1.369)	(1.369)	1.464	2.646								
16	18.821	9.411	5.310	3.416	2.435	1.820	1.597	(1.383)	1.411	(1.361)	1.544	2.646								
24	16.170	6.411	4.134	2.731	2.434	1.845	1.657	(1.380)	1.781	1.465										
32	14.850	5.096	3.817	2.698	2.342	1.812	1.657	(1.380)	1.411	1.465										
48	10.235	4.762	3.652	2.612	2.727	1.824	2.006	1.492	1.649	2.647										
64	9.235	4.451	3.519	2.806	2.546	1.826	1.846	2.879												
96	9.045	4.453	4.018	2.814	3.037	1.839														
128	9.108	5.172	4.520	2.870	2.795	3.221														
192	10.985	6.930	5.698	3.974																
256	12.878	7.966	7.381	4.563																
384	16.713	10.681																		
512	22.082	11.265																		
768	28.626																			
1024	81.219																			

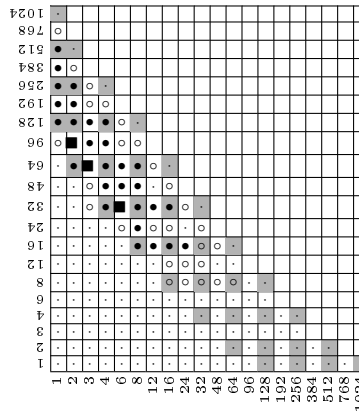


Table258. MB13 Kepler: Increased L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.0625	0.0463	0.0562	0.0365	0.0350	0.0324	0.0314	0.0299	0.0286	0.0291	0.0279	(0.0269)	0.0274	0.0273	0.0273	0.0298	0.0277	0.0225	0.0721	0.0719
2	0.0457	0.0368	0.0328	0.0319	0.0305	0.0299	0.0287	0.0285	0.0281	0.0276	(0.0269)	0.0271	0.0270	0.0272	0.0273	0.0278	0.0272	0.0226		
3	0.0398	0.0335	0.0434	0.0308	0.0294	0.0286	0.0286	0.0276	0.0284	0.0306	(0.0269)	(0.0269)	(0.0269)	0.0272	0.0272	0.0272	0.0272	0.0226		
4	0.0380	0.0337	0.0313	0.0304	0.0289	0.0288	0.0281	0.0275	0.0273	0.0270	(0.0269)	(0.0269)	(0.0269)	0.0270	0.0272	0.0272	0.0272	0.0226		
6	0.0349	0.0321	0.0312	0.0292	0.0282	0.0286	0.0276	(0.0269)	0.0273	(0.0269)	0.0270	0.0270	0.0270	0.0272	0.0272	0.0272	0.0272	0.0226		
8	0.0341	0.0307	0.0292	0.0293	0.0284	0.0283	(0.0269)	0.0276	0.0273	0.0271	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0226		
12	0.0327	0.0298	0.0292	0.0283	0.0274	0.0271	0.0270	0.0273	0.0271	0.0271	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0226		
16	0.0311	0.0297	0.0279	0.0281	0.0278	0.0274	(0.0269)	0.0272	0.0271	(0.0269)	0.0271	0.0271	0.0271	0.0271	0.0271	0.0271	0.0271	0.0226		
24	0.0304	0.0282	0.0258	0.0277	0.0274	(0.0269)	0.0270	0.0270	0.0270	0.0270	0.0270	0.0270	0.0270	0.0270	0.0270	0.0270	0.0270	0.0226		
32	0.0300	0.0286	0.0258	0.0270	0.0275	(0.0269)	0.0273	0.0273	0.0273	0.0273	0.0273	0.0273	0.0273	0.0273	0.0273	0.0273	0.0273	0.0226		
48	0.0284	0.0277	0.0270	(0.0269)	0.0273	(0.0269)	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0226		
64	0.0457	0.0280	(0.0269)	0.0274	0.0275	(0.0269)	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0226		
96	0.0457	0.0280	(0.0269)	0.0274	0.0275	(0.0269)	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0272	0.0226		
128	0.0707	0.0723	0.0723	0.0723	0.0726	0.0718														
192	0.0719	0.0718	0.0716	0.0714																
256	0.0734	0.0736	0.0740	0.0725																
384	0.0711	0.0723																		
512	0.0731	0.0733																		
768	0.0725																			
1,024	0.0740																			

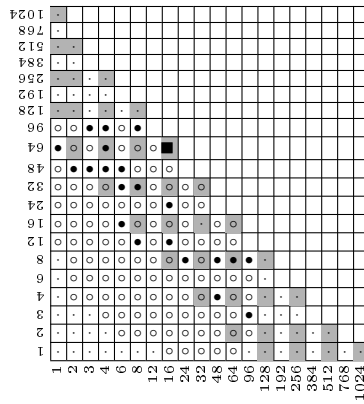


Table 259. MB13 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1514	0.0805	0.0568	0.0450	0.0324	0.0272	0.0318	0.0184	0.0154	0.0139	0.0125	0.0118	0.0111	(0.0103)	(0.0105)	0.0489	0.0505	0.0479	0.0478	0.0484
2	0.0824	0.0458	0.0320	0.0277	0.0218	0.0187	0.0157	0.0141	0.0127	0.0117	0.0111	0.0106	(0.0104)	(0.0101)*	(0.0104)	0.0601	0.0472	0.0481		
3	0.0813	0.0354	0.0269	0.0225	0.0183	0.0160	0.0140	0.0126	0.0117	0.0111	0.0106	(0.0104)	(0.0104)	(0.0103)	0.0110	0.0489				
4	0.0510	0.0302	0.0234	0.0197	0.0164	0.0148	0.0227	0.0118	0.0112	0.0107	(0.0105)	(0.0104)	(0.0104)	(0.0102)	0.0106	0.0489				
6	0.0405	0.0250	0.0200	0.0172	0.0149	0.0130	0.0120	0.0225	0.0107	(0.0105)	(0.0104)	(0.0104)	0.0110	(0.0104)						
8	0.0355	0.0225	0.0181	0.0159	0.0138	0.0121	0.0114	0.0109	0.0203	(0.0103)	(0.0104)	0.0210	0.0106	(0.0105)						
12	0.0303	0.0197	0.0162	0.0139	0.0124	0.0224	0.0110	0.0207	(0.0105)	(0.0104)	0.0106	0.0107	0.0115							
16	0.0278	0.0184	0.0147	0.0128	0.0118	0.0111	0.0109	(0.0104)	0.0106	0.0107	0.0107	0.0107								
24	0.0247	0.0157	0.0134	0.0119	0.0114	0.0110	0.0108	0.0215	0.0111	0.0106	0.0107	0.0107								
32	0.0236	0.0143	0.0130	0.0120	0.0118	0.0107	0.0109	(0.0105)	0.0111	0.0106										
48	0.0195	0.0137	0.0130	0.0115	0.0117	0.0108	0.0109	0.0107	0.0111	0.0106										
64	0.0292	0.0137	0.0131	0.0116	0.0118	0.0107	0.0112	0.0117												
96	0.0183	0.0141	0.0130	0.0121	0.0119	0.0109														
128	0.0152	0.0127	0.0124	0.0114	0.0111	0.0107														
192	0.0191	0.0146	0.0144	0.0123																
256	0.0493	0.0476	0.0492	0.0490																
384	0.0508	0.0494																		
512	0.0487	0.0499																		
768	0.0486																			
1024	0.0490																			

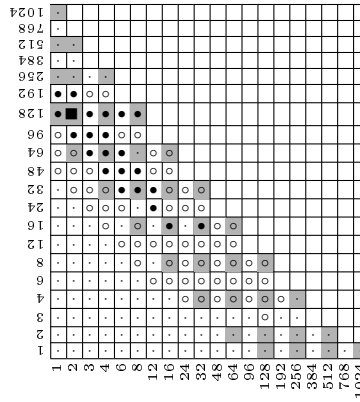


Table 260. MB13 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	145.413	72.712	48.478	36.361	24.244	18.185	12.127	9.098	6.069	4.554	3.052	2.282	1.570	(1.353)	(1.328)	(1.345)	(1.353)	(1.357)	1.402	2.673	
2	75.074	37.288	24.946	18.653	12.580	9.331	6.325	4.669	3.259	2.282	1.661	(1.352)	(1.327)	(1.344)	(1.370)	(1.358)	1.402				
3	53.058	26.632	17.838	13.323	8.979	6.363	4.636	3.150	2.263	1.564	1.486	(1.352)	(1.344)	(1.356)	(1.352)	1.463	2.679				
4	42.519	21.275	14.228	10.613	7.199	5.308	3.471	2.369	1.736	(1.352)	(1.357)	(1.344)	(1.352)	(1.356)	1.463						
6	31.936	15.925	10.696	7.990	5.532	3.802	2.531	1.658	1.494	(1.352)	(1.344)	(1.352)	(1.352)	1.463							
8	26.610	13.349	8.973	6.678	4.132	2.714	1.944	(1.352)	(1.357)	(1.344)	(1.352)	(1.352)	1.463								
12	21.451	10.703	7.045	4.519	2.933	1.904	1.660	(1.350)	1.413	(1.349)	1.725	1.463									
16	18.785	9.414	5.310	3.415	2.439	1.820	1.595	(1.369)	1.402	(1.358)	1.544	2.660									
24	16.171	6.400	4.133	2.735	2.430	1.851	1.625														
32	14.880	5.102	3.817	2.606	2.346	1.837	1.625														
48	10.236	4.757	3.650	2.608	2.716	1.827	2.002	1.567													
64	9.247	4.582	3.519	2.808	2.546	1.827	1.845	2.861													
96	9.044	4.454	4.025	2.802	3.028	1.906															
128	9.103	5.177	4.501	2.872	2.791	3.198															
192	10.984	6.907	5.699	4.021																	
256	12.906	8.015	7.304	4.554																	
384	16.573	10.632																			
512	21.897	11.025																			
768	28.546																				
1024	31.519																				

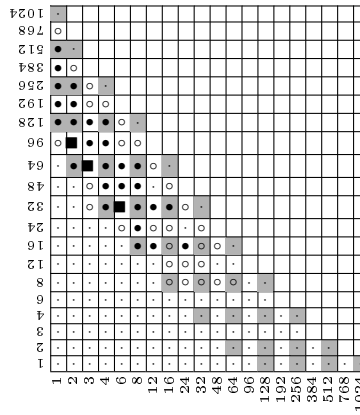


Table261. MB13 Kepler: Without L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.0788	0.0563	0.0483	0.0459	0.0423	0.0400	0.0388	0.0370	0.0353	0.0411	0.0352	(0.0319)	(0.0325)	0.0807	0.0882	0.0954	0.0893	0.0872	0.0903	0.0883	
2	0.0559	0.0483	0.0424	0.0386	0.0357	0.0373	0.0362	0.0417	0.0356	0.0353	0.0338	0.0340	0.0335	0.0888	0.0885	0.0889	0.0882	0.0942			
3	0.0495	0.0441	0.0401	0.0382	0.0361	0.0371	0.0359	0.0347	0.0346	0.0338	0.0338	0.0335	0.0336	0.0906	0.0873	0.0890					
4	0.0456	0.0410	0.0376	0.0378	0.0366	0.0357	0.0350	0.0336	0.0363	0.0337	0.0334	0.0346	0.0344	0.0888	0.0891						
6	0.0430	0.0385	0.0372	0.0365	0.0361	0.0359	0.0352	0.0351	0.0341	0.0341	0.0348	0.0344	0.0344	0.0873							
8	0.0404	0.0373	0.0358	0.0363	0.0370	0.0351	0.0350	0.0344	0.0412	0.0336	0.0343	0.0353	0.0344	0.0955							
12	0.0388	0.0362	0.0346	0.0358	0.0366	0.0337	0.0336	0.0338	0.0338	(0.0323)	0.0351	0.0361	0.0361								
16	0.0380	0.0374	0.0369	0.0355	0.0341	0.0341	0.0340	0.0339	0.0334	0.0334		0.0344	0.0344								
24	0.0370	0.0371	0.0347	0.0339	0.0339	0.0341	0.0340	0.0339	0.0334	0.0334											
32	0.0360	0.0371	(0.0326)	0.0338	0.0338	0.0338	0.0338	0.0334	[0.0314]*	0.0350											
48	0.0352	0.0342	0.0341	0.0339	0.0348	0.0343	0.0346	0.0335													
64	0.0358	0.0341	0.0345	0.0339	(0.0318)	0.0339	0.0340	0.0342													
96	0.0342	0.0331	0.0345	0.0339	0.0348	0.0343	0.0340	0.0342													
128	0.0800	0.0959	0.0875	0.0899	0.0897	0.0897	0.0887														
192	0.0884	0.0909	0.0875	0.0899	0.0897	0.0897	0.0887														
256	0.0887	0.0878	0.0886	0.0886																	
384	0.0893	0.0886																			
512	0.0875	0.0887																			
768	0.0875																				
1024	0.0898																				

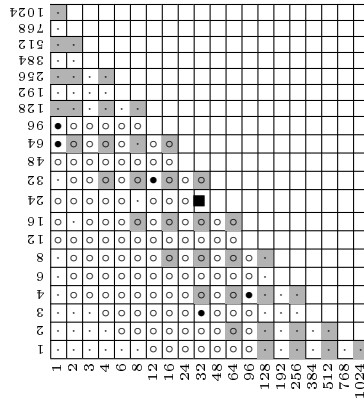


Table 262. MB14 Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.1847	0.0980	0.0691	0.0546	0.0401	0.0328	0.0256	0.0221	0.0184	0.0166	0.0148	0.0138	0.0130	(0.0120)	(0.0120)	0.0577	0.0602	0.0582	0.0601	0.0637	0.0681
2	0.0980	0.0546	0.0401	0.0329	0.0257	0.0220	0.0184	0.0166	0.0148	0.0139	0.0128	0.0125	(0.0119)	(0.0118)	(0.0118)	0.0584	0.0592				
3	0.0691	0.0401	0.0304	0.0257	0.0208	0.0184	0.0147	0.0139	0.0123	0.0124	0.0123	(0.0120)	(0.0119)	(0.0117)	(0.0118)	0.0574					
4	0.0546	0.0329	0.0256	0.0220	0.0183	0.0166	0.0136	0.0130	(0.0123)	(0.0120)	(0.0118)	(0.0118)	(0.0117)	(0.0116)*	(0.0119)	0.0596					
6	0.0401	0.0257	0.0208	0.0184	0.0159	0.0148	0.0136	0.0130	0.0123	(0.0120)	(0.0119)	(0.0118)	(0.0117)	(0.0116)*							
8	0.0328	0.0219	0.0183	0.0166	0.0148	0.0142	0.0130	0.0125	(0.0119)	(0.0119)	(0.0118)	(0.0117)	(0.0117)	(0.0117)							
12	0.0257	0.0184	0.0160	0.0147	0.0136	0.0130	0.0123	(0.0119)	(0.0119)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)							
16	0.0220	0.0166	0.0148	0.0139	0.0130	0.0124	(0.0119)	(0.0119)	(0.0119)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)							
24	0.0184	0.0138	0.0130	0.0125	0.0122	(0.0119)	(0.0119)	(0.0119)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)							
32	0.0166	0.0130	(0.0123)	(0.0121)	(0.0119)	(0.0119)	(0.0119)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)							
48	0.0152	0.0130	(0.0123)	(0.0121)	(0.0119)	(0.0119)	(0.0119)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)							
64	0.0139	0.0124	(0.0120)	(0.0119)	(0.0119)	(0.0119)	(0.0119)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)							
96	0.0130	0.0123	(0.0118)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)							
128	(0.0120)	(0.0120)	(0.0119)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)	(0.0118)							
192	(0.0118)	(0.0119)	(0.0120)	(0.0118)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)	(0.0117)							
256	0.0595	0.0579	0.0588																		
384	0.0681	0.0588																			
512	0.0581	0.0586																			
768	0.0579																				
1024	0.0592																				

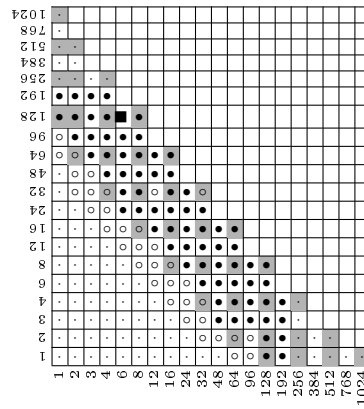


Table263. MB14 Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	1599.440	799.720	533.154	399.869	266.583	199.940	133.298	99.976	66.655	49.994	33.333	25.003	16.673	12.507	8.343	6.260	4.179	3.119	2.059	1.544
2	799.726	399.869	266.583	199.940	133.298	99.976	66.655	49.994	33.333	25.003	16.673	12.507	8.342	6.260	4.179	3.119	2.059	1.544	1.024	0.768
3	533.155	266.583	177.726	133.298	88.869	66.655	44.440	33.333	22.223	16.673	11.112	8.342	5.935	4.179	2.719	2.059	1.372	1.024	0.768	0.576
4	399.869	199.940	133.298	99.976	66.655	44.440	33.333	25.003	16.673	12.508	8.342	6.260	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432
6	266.583	133.297	88.869	66.655	44.440	33.333	22.223	16.673	11.112	8.342	5.937	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324
8	199.940	99.976	66.655	44.440	33.333	25.003	16.673	12.507	8.342	6.260	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243
12	133.298	66.655	44.440	33.333	22.223	16.673	11.112	8.342	5.937	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183
16	99.976	49.994	33.333	22.223	16.673	11.112	8.342	5.937	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138
24	66.655	33.333	22.223	16.673	11.112	8.342	5.937	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138	0.103
32	49.994	25.003	16.673	11.112	8.342	5.937	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138	0.103	0.077
48	33.333	16.673	11.112	8.342	5.937	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138	0.103	0.077	0.058
64	25.003	12.507	8.342	5.916	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138	0.103	0.077	0.058	0.044
96	16.673	8.342	5.916	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138	0.103	0.077	0.058	0.044	0.033
128	12.507	6.260	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138	0.103	0.077	0.058	0.044	0.033	0.025
192	8.342	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138	0.103	0.077	0.058	0.044	0.033	0.025	0.019
256	6.260	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138	0.103	0.077	0.058	0.044	0.033	0.025	0.019
384	4.179	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138	0.103	0.077	0.058	0.044	0.033	0.025	0.019	0.014
512	3.119	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138	0.103	0.077	0.058	0.044	0.033	0.025	0.019	0.014	0.011
768	2.059	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138	0.103	0.077	0.058	0.044	0.033	0.025	0.019	0.014	0.011	0.008
1024	1.544	1.024	0.768	0.576	0.432	0.324	0.243	0.183	0.138	0.103	0.077	0.058	0.044	0.033	0.025	0.019	0.014	0.011	0.008	0.006

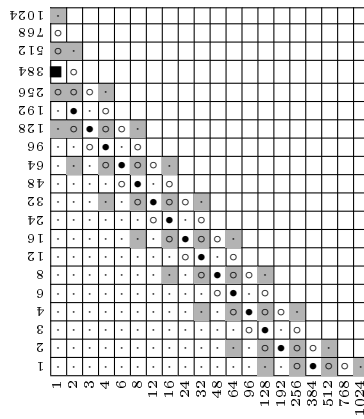


Table 264. MB14 Kepler: Normal L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0778	0.0753	0.0489	0.0456	0.0416	0.0414	0.0382	0.0371	0.0373	0.0359	0.0356	0.0363	0.0338	0.0382	0.0368	0.0382	0.1077	0.0887	0.0893	0.1811
2	0.0563	0.0458	0.0420	0.0410	0.0382	0.0382	0.0365	0.0367	0.0366	0.0524	0.0345	0.0344	0.0335	0.0884	0.0898	0.0908	0.0884	0.0884	0.0890	
3	0.0503	0.0425	0.0394	0.0389	0.0376	0.0371	0.0360	0.0356	0.0369	0.0539	0.0340	0.0341	0.0341	0.1071	0.0894	0.0893	0.0884	0.0884	0.0890	
4	0.0466	0.0409	0.0397	0.0379	0.0366	0.0380	0.0361	0.0357	0.0349	0.0841	0.0349	0.0341	0.0346	0.0896	0.0897	0.0896	0.0884	0.0884	0.0890	
6	0.0420	0.0381	0.0366	0.0358	0.0365	0.0367	0.0354	0.0350	0.0344	0.0841	0.0346	0.0345	0.0340	0.0895	0.0897	0.0896	0.0884	0.0884	0.0890	
8	0.0403	0.0375	0.0372	0.0369	0.0357	0.0362	0.0356	0.0350	0.0348	0.0841	0.0346	0.0346	0.0340	0.0895	0.0897	0.0896	0.0884	0.0884	0.0890	
12	0.0371	0.0360	0.0357	0.0347	0.0344	0.0345	0.0348	0.0342	0.0344	0.0841	0.0346	0.0346	0.0340	0.0895	0.0897	0.0896	0.0884	0.0884	0.0890	
16	0.0373	0.0364	0.0356	0.0347	0.0344	0.0344	0.0348	0.0342	0.0344	0.0841	0.0346	0.0346	0.0340	0.0895	0.0897	0.0896	0.0884	0.0884	0.0890	
24	0.0370	0.0364	0.0356	0.0347	0.0344	0.0344	0.0348	0.0342	0.0344	0.0841	0.0346	0.0346	0.0340	0.0895	0.0897	0.0896	0.0884	0.0884	0.0890	
32	0.0366	0.0347	0.0337	0.0344	0.0344	0.0344	0.0348	0.0342	0.0344	0.0841	0.0346	0.0346	0.0340	0.0895	0.0897	0.0896	0.0884	0.0884	0.0890	
48	0.0341	0.0347	0.0345	0.0344	0.0344	0.0344	0.0348	0.0342	0.0344	0.0841	0.0346	0.0346	0.0340	0.0895	0.0897	0.0896	0.0884	0.0884	0.0890	
64	0.0346	0.0337	0.0340	0.0340	0.0340	0.0340	0.0348	0.0342	0.0344	0.0841	0.0346	0.0346	0.0340	0.0895	0.0897	0.0896	0.0884	0.0884	0.0890	
96	0.0341	0.0337	0.0340	0.0340	0.0340	0.0340	0.0348	0.0342	0.0344	0.0841	0.0346	0.0346	0.0340	0.0895	0.0897	0.0896	0.0884	0.0884	0.0890	
128	0.0898	0.0897	0.0889	0.0889	0.0893	0.0881														
192	0.0897	0.0897	0.0898	0.0898	0.0893	0.0881														
256	0.0891	0.0901	0.0888	0.0895																
384	0.0901	0.0901	0.0888	0.0895																
512	0.0885	0.0892																		
768	0.0875																			
1024	0.0891																			

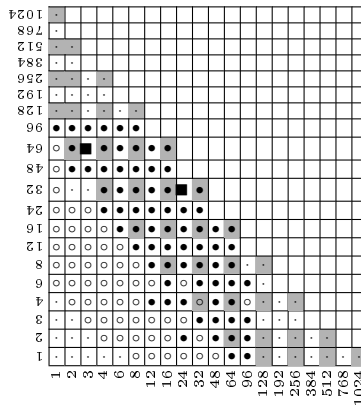


Table 265. MB14 Kepler: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1856	0.0987	0.0698	0.0554	0.0410	0.0335	0.0265	0.0228	0.0191	0.0174	0.0155	0.0147	0.0139	(0.0128)	(0.0128)	0.0609	0.0626	0.1024	0.0623	0.0646
2	0.0989	0.0552	0.0409	0.0336	0.0253	0.0230	0.0192	0.0174	0.0155	0.0146	0.0138	0.0134	0.0131	(0.0127)	(0.0127)	0.0628	0.0618	0.0617		
3	0.0699	0.0409	0.0313	0.0265	0.0215	0.0193	0.0168	0.0156	0.0143	0.0137	0.0130	(0.0128)	(0.0128)	(0.0129)	(0.0129)	0.0621				
4	0.0553	0.0336	0.0264	0.0227	0.0192	0.0175	0.0155	0.0146	0.0139	0.0133	(0.0128)	(0.0127)	(0.0127)	(0.0127)	(0.0127)	0.0630				
6	0.0411	0.0283	0.0219	0.0191	0.0168	0.0155	0.0144	0.0138	0.0131	(0.0127)	(0.0127)	(0.0126)	(0.0126)	(0.0125)						
8	0.0336	0.0227	0.0191	0.0174	0.0158	0.0147	0.0136	0.0134	0.0131	(0.0128)	(0.0128)	(0.0126)	(0.0126)	(0.0125)						
12	0.0263	0.0192	0.0167	0.0155	0.0145	0.0137	0.0132	(0.0128)	(0.0127)	(0.0127)	(0.0127)	(0.0126)	(0.0126)	(0.0125)						
16	0.0229	0.0174	0.0156	0.0146	0.0139	0.0134	(0.0128)	(0.0127)	(0.0127)	(0.0127)	(0.0126)	(0.0126)	(0.0125)							
24	0.0192	0.0161	0.0145	0.0139	0.0132	0.0127	(0.0127)	(0.0127)	(0.0127)	(0.0126)	(0.0126)	(0.0125)								
32	0.0173	0.0137	0.0132	0.0133	0.0128	(0.0128)	(0.0127)	(0.0127)	(0.0127)	(0.0126)	(0.0126)	(0.0125)								
48	0.0156	0.0137	0.0132	0.0133	0.0128	(0.0128)	(0.0127)	(0.0127)	(0.0127)	(0.0126)	(0.0126)	(0.0125)								
64	0.0145	0.0134	(0.0128)	(0.0128)	(0.0128)	(0.0127)	(0.0127)	(0.0127)	(0.0127)	(0.0126)	(0.0126)	(0.0125)								
96	0.0137	(0.0128)	(0.0127)	(0.0127)	(0.0127)	(0.0127)	(0.0127)	(0.0127)	(0.0127)	(0.0126)	(0.0126)	(0.0125)								
128	(0.0129)	(0.0126)	(0.0125)	(0.0125)	(0.0125)	(0.0125)	(0.0125)	(0.0125)	(0.0125)	(0.0125)	(0.0125)	(0.0125)								
192	0.0605	0.0614																		
256	0.0616	0.0614																		
384	0.0617	0.0618																		
512	0.0823																			
768																				
1024	0.0624																			

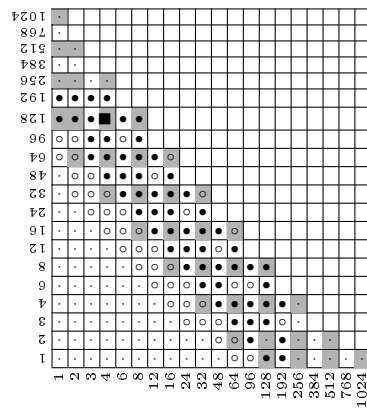


Table 266. MB14 Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1599.440	799.727	533.156	399.870	266.584	199.941	133.298	99.977	66.656	49.995	33.334	25.004	16.673	12.508	8.343	6.261	4.699	3.512	2.768	2.1024
2	799.727	399.870	266.584	199.941	133.298	99.977	66.656	49.995	33.334	25.004	16.673	12.508	8.343	6.261	4.699	3.512	2.768	2.1024		
3	533.155	266.584	177.727	133.298	88.870	66.656	44.441	33.334	22.227	16.673	11.120	8.343	5.949	4.333	3.261	2.469	1.869	1.412	1.078	0.838
4	399.870	199.941	133.298	99.977	66.656	49.995	33.334	25.004	16.673	12.508	8.343	6.261	4.699	3.512	2.768	2.1024				
6	266.584	133.298	88.870	66.656	44.441	33.334	22.227	16.673	11.120	8.343	5.900	4.333	3.261	2.469	1.869	1.412	1.078	0.838	0.649	0.502
8	199.941	99.977	66.656	44.441	33.334	25.004	16.673	12.508	8.343	6.261	4.699	3.512	2.768	2.1024						
12	133.298	66.656	44.441	33.334	22.227	16.673	11.120	8.343	5.949	4.333	3.261	2.469	1.869	1.412	1.078	0.838	0.649	0.502	0.384	0.298
16	99.977	49.995	33.334	25.004	16.673	12.508	8.343	6.261	4.699	3.512	2.768	2.1024								
24	66.656	33.334	22.227	16.673	11.120	8.343	5.949	4.333	3.261	2.469	1.869	1.412	1.078	0.838	0.649	0.502	0.384	0.298	0.224	0.172
32	49.995	25.004	16.673	12.508	8.343	6.261	4.699	3.512	2.768	2.1024										
48	33.334	16.673	11.120	8.343	5.900	4.333	3.261	2.469	1.869	1.412	1.078	0.838	0.649	0.502	0.384	0.298	0.224	0.172	0.132	0.102
64	25.004	12.508	8.343	5.900	4.333	3.261	2.469	1.869	1.412	1.078	0.838	0.649	0.502	0.384	0.298	0.224	0.172	0.132	0.102	0.078
96	16.673	8.343	5.900	4.333	3.261	2.469	1.869	1.412	1.078	0.838	0.649	0.502	0.384	0.298	0.224	0.172	0.132	0.102	0.078	0.058
128	12.508	6.261	4.333	3.261	2.469	1.869	1.412	1.078	0.838	0.649	0.502	0.384	0.298	0.224	0.172	0.132	0.102	0.078	0.058	0.042
192	8.343	5.900	4.333	3.261	2.469	1.869	1.412	1.078	0.838	0.649	0.502	0.384	0.298	0.224	0.172	0.132	0.102	0.078	0.058	0.038
256	6.261	4.333	3.261	2.469	1.869	1.412	1.078	0.838	0.649	0.502	0.384	0.298	0.224	0.172	0.132	0.102	0.078	0.058	0.038	0.028
384	4.699	3.261	2.469	1.869	1.412	1.078	0.838	0.649	0.502	0.384	0.298	0.224	0.172	0.132	0.102	0.078	0.058	0.038	0.028	0.018
512	3.512	2.469	1.869	1.412	1.078	0.838	0.649	0.502	0.384	0.298	0.224	0.172	0.132	0.102	0.078	0.058	0.038	0.028	0.018	0.012
768	2.768	2.1024	1.512	1.078	0.838	0.649	0.502	0.384	0.298	0.224	0.172	0.132	0.102	0.078	0.058	0.038	0.028	0.018	0.012	0.008
1024	2.1024	1.512	1.078	0.838	0.649	0.502	0.384	0.298	0.224	0.172	0.132	0.102	0.078	0.058	0.038	0.028	0.018	0.012	0.008	0.006

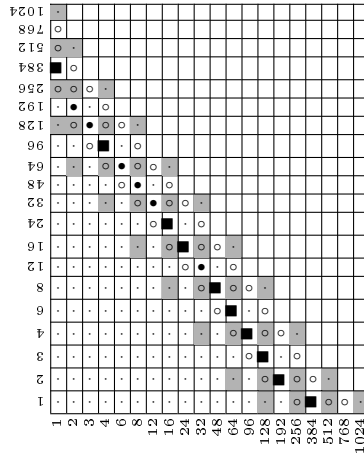


Table 267. MB14 Kepler: Increased L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.0759	0.0549	0.0495	0.0456	0.0433	0.0395	0.0374	0.0376	0.0361	0.0352	0.0353	(0.0334)	(0.0333)	0.0289	0.0287	0.0285	0.0287	0.0287	0.0287	0.0287
2	0.0570	0.0460	0.0403	0.0406	0.0385	0.0389	0.0360	0.0366	0.0356	0.0345	0.0345	0.0336	(0.0334)	0.0294	0.0292	0.0290	0.0291	0.0291	0.0291	0.0291
3	0.0488	0.0419	0.0379	0.0377	0.0380	0.0364	0.0352	0.0353	0.0364	0.0343	(0.0327)	(0.0332)	0.0340	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280
4	0.0461	0.0398	0.0386	0.0384	0.0362	0.0352	0.0354	0.0351	0.0347	0.0336	0.0335	(0.0332)	0.0335	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280
6	0.0416	0.0388	0.0358	0.0357	0.0352	0.0337	0.0353	(0.0333)	(0.0334)	0.0339	0.0338	(0.0332)	(0.0319)	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280
8	0.0402	0.0367	0.0355	0.0370	0.0360	0.0342	0.0337	0.0343	(0.0330)	0.0337	(0.0324)	(0.0327)	(0.0333)	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280
12	0.0383	0.0360	0.0350	0.0362	0.0352	0.0335	(0.0329)	0.0334	(0.0330)	0.0337	(0.0324)	(0.0327)	(0.0333)	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280
16	0.0363	0.0353	0.0355	0.0350	0.0342	0.0335	(0.0328)	0.0338	(0.0333)	0.0337	(0.0324)	(0.0327)	(0.0333)	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280
24	0.0355	0.0343	0.0342	(0.0329)	0.0336	0.0335	0.0335	(0.0331)	0.0341	(0.0330)	(0.0334)	(0.0333)	0.0342	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280
32	0.0352	0.0334	(0.0329)	0.0335	0.0336	0.0335	0.0335	(0.0331)	0.0341	(0.0330)	(0.0334)	(0.0333)	0.0342	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280
48	0.0342	0.0334	(0.0331)	(0.0330)	(0.0332)	0.0335	(0.0327)	0.0335	(0.0331)	0.0330	(0.0334)	(0.0333)	0.0342	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280
64	0.0335	0.0338	0.0337	(0.0332)	0.0335	0.0335	(0.0327)	0.0335	(0.0331)	0.0330	(0.0334)	(0.0333)	0.0342	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280
96	0.0335	0.0338	0.0337	(0.0332)	0.0335	0.0335	(0.0327)	0.0335	(0.0331)	0.0330	(0.0334)	(0.0333)	0.0342	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280	0.0280
128	0.0879	0.0892	0.0889	0.0874	0.0882	0.0889	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881
192	0.0879	0.0881	0.0881	0.0895	0.0882	0.0889	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881
256	0.0883	0.0885	0.0883	0.0872	0.0882	0.0889	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881
384	0.0878	0.0887	0.0883	0.0872	0.0882	0.0889	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881
512	0.0889	0.0887	0.0883	0.0872	0.0882	0.0889	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881
768	0.0885	0.0883	0.0883	0.0872	0.0882	0.0889	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881
1024	0.0881	0.0883	0.0883	0.0872	0.0882	0.0889	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881	0.0881

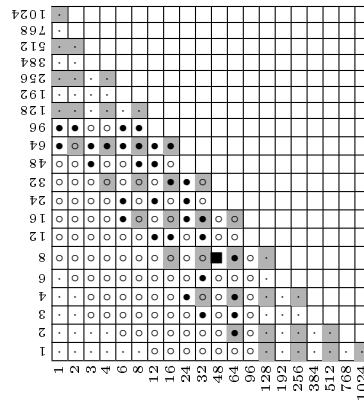


Table 268. MB14 Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	0.1846	0.0979	0.0690	0.0545	0.0400	0.0328	0.0257	0.0220	0.0184	0.0166	0.0147	0.0138	0.0130	(0.0119)	(0.0119)	0.1285	0.0573	0.0585	0.0584	0.0586
2	0.0979	0.0545	0.0401	0.0329	0.0257	0.0220	0.0184	0.0166	0.0147	0.0139	0.0129	0.0124	0.0123	(0.0117)	(0.0118)	0.0589	0.0593	0.0575		
3	0.0690	0.0401	0.0304	0.0256	0.0206	0.0184	0.0159	0.0148	0.0136	0.0129	0.0124	(0.0119)	(0.0119)	(0.0119)	(0.0121)	0.0588				
4	0.0545	0.0328	0.0254	0.0220	0.0184	0.0165	0.0148	0.0140	0.0129	0.0124	(0.0119)	(0.0119)	(0.0119)	(0.0121)	(0.0118)	0.0586				
6	0.0401	0.0256	0.0208	0.0183	0.0159	0.0147	0.0136	0.0130	0.0124	(0.0119)	(0.0119)	(0.0119)	(0.0121)	(0.0117)						
8	0.0328	0.0219	0.0184	0.0163	0.0148	0.0139	0.0129	0.0124	(0.0119)	(0.0119)	(0.0121)	(0.0120)								
12	0.0255	0.0184	0.0159	0.0148	0.0136	0.0130	0.0124	(0.0119)	(0.0119)	(0.0118)	(0.0118)	(0.0120)								
16	0.0220	0.0166	0.0148	0.0138	0.0130	0.0123	(0.0119)	(0.0119)	(0.0119)	(0.0122)	(0.0118)	(0.0121)								
24	0.0184	0.0148	0.0139	0.0131	0.0123	(0.0119)	(0.0119)	(0.0118)	(0.0118)	(0.0118)	(0.0117)	(0.0120)								
32	0.0166	0.0139	0.0131	0.0124	(0.0119)	(0.0120)	(0.0121)	(0.0118)	(0.0118)	(0.0118)										
48	0.0147	0.0130	(0.0123)	(0.0120)	(0.0119)	(0.0120)	(0.0121)	(0.0118)	(0.0118)											
64	0.0135	0.0126	(0.0120)	(0.0119)	(0.0118)	(0.0121)	(0.0118)	(0.0118)												
96	0.0130	(0.0120)	(0.0119)	(0.0118)	(0.0121)	(0.0118)	(0.0118)													
128	(0.0119)	(0.0117)	(0.0120)	(0.0117)*																
192	(0.0119)	(0.0117)	(0.0120)	0.0592																
256	0.0595	0.0602	0.0583																	
384	0.0587	0.0587																		
512	0.0597	0.0580																		
768	0.0579																			
1024	0.0588																			

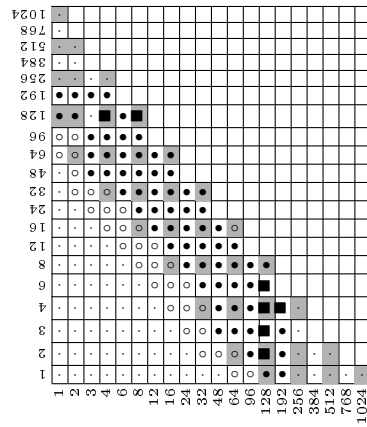


Table 269. MB14 Kepler: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	1599.440	799.720	533.154	399.869	266.583	199.940	133.298	99.976	66.655	49.994	33.333	25.003	16.673	12.507	8.342	6.260	4.188	3.141	2.094	1.571
2	799.726	399.869	266.583	199.940	133.298	99.976	66.655	49.994	33.333	25.003	16.673	12.507	8.342	6.260	4.188	3.141	2.094	1.571	1.047	0.778
3	533.155	266.583	177.726	133.298	88.869	66.655	44.440	33.333	22.226	16.673	11.119	8.342	5.925	4.188	2.792	2.094	1.396	1.047	0.778	0.583
4	399.869	199.940	133.298	99.976	66.655	44.440	33.333	25.003	16.673	12.507	8.342	6.260	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437
6	266.583	133.298	88.869	66.655	44.440	33.333	22.226	16.673	11.119	8.342	6.260	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328
8	199.941	99.976	66.655	49.994	33.333	25.003	16.673	12.507	8.342	6.260	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246
12	133.297	66.655	44.440	33.333	22.226	16.673	11.119	8.342	6.260	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185
16	99.976	49.994	33.333	25.003	16.673	12.507	8.342	6.260	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139
24	66.655	33.333	22.226	16.673	11.119	8.342	6.260	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139	0.104
32	49.994	25.003	16.673	11.119	8.342	6.260	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139	0.104	0.077
48	33.333	16.673	11.119	8.342	6.260	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139	0.104	0.077	0.058
64	25.003	12.507	8.342	6.260	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139	0.104	0.077	0.058	0.044
96	16.673	8.342	6.260	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139	0.104	0.077	0.058	0.044	0.033
128	12.507	6.260	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139	0.104	0.077	0.058	0.044	0.033	0.025
192	8.342	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139	0.104	0.077	0.058	0.044	0.033	0.025	0.019
256	6.260	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139	0.104	0.077	0.058	0.044	0.033	0.025	0.019
384	4.188	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139	0.104	0.077	0.058	0.044	0.033	0.025	0.019	0.014
512	3.141	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139	0.104	0.077	0.058	0.044	0.033	0.025	0.019	0.014	0.011
768	2.094	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139	0.104	0.077	0.058	0.044	0.033	0.025	0.019	0.014	0.011	0.008
1024	1.571	1.047	0.778	0.583	0.437	0.328	0.246	0.185	0.139	0.104	0.077	0.058	0.044	0.033	0.025	0.019	0.014	0.011	0.008	0.006

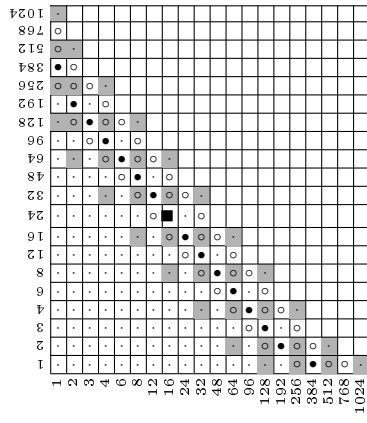


Table 270. MB14 Kepler: Without L1, size 6144×6144, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.6116	0.3209	0.2216	0.1734	0.1211	0.0981	0.0746	0.0598	0.0504	0.0435	0.0397	0.0297	0.0355	0.0531	0.0527	0.0583	0.0534	0.0535	0.0547	0.0538
2	0.4029	0.2170	0.1494	0.1196	0.0893	0.0703	0.0597	0.0491	0.0412	0.0386	0.0351	0.0315	0.0384	0.0540	0.0526	0.0536	0.0541	0.0537		
3	0.3338	0.1782	0.1300	0.1055	0.0809	0.0686	0.0572	0.0405	0.0463	0.0343	0.0390	0.0312	0.0380	0.0538	0.0540	0.0540	0.0544			
4	0.3049	0.1623	0.1199	0.0919	0.0773	0.0634	0.0458	0.0399	0.0379	0.0337	0.0357	0.0313	0.0383	0.0538	0.0538	0.0539	0.0544			
6	0.2829	0.1511	0.1143	0.0852	0.0770	0.0600	0.0401	0.0354	0.0372	0.0358	0.0384	0.0350	0.0425	0.0542						
8	0.2614	0.1363	0.1135	0.0809	0.0593	0.0490	0.0401	0.0344	0.0367	0.0356	0.0361	0.0398	0.0357	0.0537						
12	0.2447	0.1482	0.1112	0.0870	0.0594	0.0424	0.0400	0.0357	0.0372	0.0366	0.0435	0.0462	0.0411							
16	0.2252	0.1435	0.0820	0.0675	0.0509	0.0436	0.0415	0.0356	0.0372	0.0365	0.0494	0.0456								
24	0.2549	0.1070	0.0906	0.0547	0.0500	0.0412	0.0423	0.0356	0.0372	0.0365	0.0494	0.0456								
32	0.2370	0.1088	0.0649	0.0563	0.0518	0.0405	0.0395	0.0396	0.0384	0.0352	0.0407									
48	0.1865	0.0821	0.0678	0.0574	0.0523	0.0440	0.0440	0.0352	0.0384	0.0352										
64	0.0978	0.0630	0.0581	0.0450	0.0450	0.0440	0.0440	0.0352	0.0380	0.0398										
96	0.1284	0.0862	0.0749	0.0574	0.0541	0.0541	0.0462													
128	0.0337	0.0541	0.0583	0.0550	0.0548	0.0528														
192	0.0634	0.0543	0.0510	0.0538																
256	0.0540	0.0536	0.0584	0.0534																
384	0.0534	0.0539																		
512	0.0534	0.0532																		
768	0.0528																			
1,024	0.0539																			

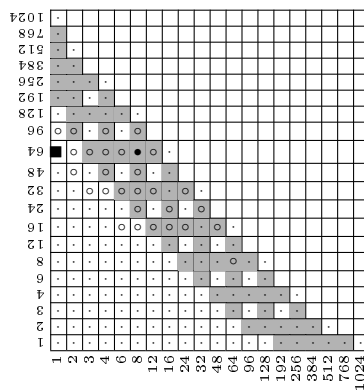


Table 271. Cannon Fermi: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	4.5687	2.3212	1.5556	1.1796	0.7844	0.5927	0.4014	0.3095	0.2054	0.1588	0.1411	0.1104	0.1305	0.0907	0.1317	0.0959	0.0861	0.0856	0.0859	0.0867	0.0867
2	2.9382	1.4896	1.0008	0.7617	0.5133	0.3931	0.2812	0.2021	0.1503	0.1099	0.1209	0.1314	0.1292	0.1150	0.1297	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
3	2.4153	1.2316	0.8286	0.6273	0.4290	0.3184	0.2308	0.1508	0.1493	0.1193	0.1568	0.1391	0.1234	0.0942	0.1410	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
4	2.1474	1.0974	0.7390	0.5700	0.3761	0.2902	0.1794	0.1163	0.1126	0.1216	0.1287	0.1284	0.1302	0.1241	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
6	1.9092	0.9648	0.6700	0.4898	0.3479	0.2909	0.1560	0.1162	0.1174	0.1309	0.1193	0.1310	0.1401	0.1260	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
8	1.7799	0.9209	0.6049	0.4664	0.2723	0.1567	0.1300	0.1162	0.1107	0.1305	0.1272	0.1266	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
12	1.6583	0.8341	0.5488	0.3957	0.2146	0.1305	0.1351	0.1166	0.1109	0.1322	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
16	1.6323	0.8204	0.4316	0.2450	0.1813	0.1439	0.1308	0.1152	0.1103	0.1322	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
24	1.5726	0.6044	0.3616	0.2324	0.2303	0.1892	0.1344	0.1221	0.1168	0.1319	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
32	1.5778	0.4916	0.3336	0.3479	0.2791	0.1815	0.1428	0.1224	0.1168	0.1319	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
48	1.2638	0.7857	0.6122	0.5104	0.3116	0.1949	0.1428	0.1268	0.1291	0.1262	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
64	1.0600	0.8197	0.7280	0.4903	0.3372	0.2311	0.1618	0.1253	0.1291	0.1262	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
96	2.0687	1.8426	0.8636	0.6001	0.3099	0.2680	0.1687	0.1253	0.1291	0.1262	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
128	1.0033	0.7978	0.6476	0.4071	0.2996	0.1687	0.1687	0.1253	0.1291	0.1262	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
192	2.5854	1.4743	0.9204	0.7275	0.2996	0.1687	0.1687	0.1253	0.1291	0.1262	0.1298	0.1291	0.1316	0.0891	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
256	0.0358	0.0355	0.0355	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357	0.0357
384	0.0363	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364	0.0364
512	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367	0.0367
768	0.0361	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355	0.0355
1024	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358	0.0358

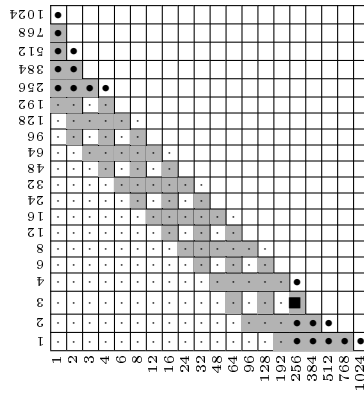


Table 272. Cannon Fermi: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	151.049	75.524	50.349	37.763	25.177	18.881	12.589	9.442	6.296	4.733	4.177	(3.133)	(3.123)	(3.123)	(3.118)	(3.116)	(3.116)	(3.087)	(3.065)	(3.086)	3.244
2	96.540	48.267	32.179	24.135	16.090	12.069	8.047	6.035	4.384	(3.088)	(3.065)	(3.111)	(3.127)	(3.119)	(3.082)	(3.072)	(3.074)				
3	79.030	39.516	26.344	19.768	13.172	9.880	7.044	4.397	4.043	(3.110)	(3.068)	(3.127)	(3.096)	(3.091)	(3.106)	(3.074)					
4	70.296	35.152	23.334	17.576	11.719	8.788	5.512	3.446	(3.072)	(3.104)	(3.063)	(3.115)	(3.086)	(3.081)	(3.066)	(3.121)					
6	62.145	31.188	20.780	15.577	11.393	8.595	5.166	(3.097)	(3.092)	(3.110)	(3.052)	(3.091)	(3.116)	(3.086)							
8	61.109	30.514	20.299	15.384	9.482	6.798	4.531	(3.094)	(3.092)	(3.110)	(3.042)	(3.080)	(3.082)	(3.125)							
12	65.617	32.883	21.162	15.616	8.983	5.462	4.531	(3.094)	(3.092)	(3.089)											
16	64.569	32.360	18.386	12.830	9.942	5.907	5.579	(3.094)	(3.096)	(3.078)											
24	82.115	34.127	26.211	17.888	13.643	8.818	5.378	(3.094)	(3.044)	(3.076)											
32	101.077	50.092	33.711	22.938	16.087	8.487	5.518	(3.094)	(3.029)	(3.069)											
48	110.158	55.500	38.257	24.939	15.729	8.481	4.980	(3.031)													
64	120.698	57.788	38.451	24.478	15.849	8.439	5.730	3.245													
96	141.817	63.147	38.700	24.956	13.874	8.439	5.730														
128	159.337	65.905	39.811	25.160	15.997	6.230															
192	178.588	69.764	37.235	24.828																	
256	178.633	71.337																			
384	182.769	76.291																			
512	184.614																				
768	188.491	61.632																			
1024	188.634																				

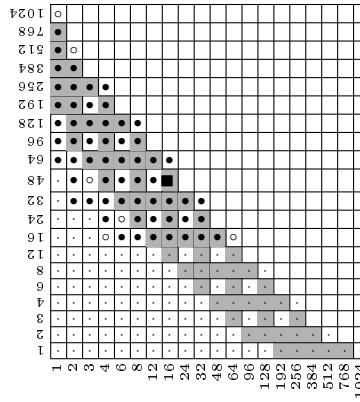


Table 273. Cannon Fermi: Normal L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024	
1	0.6141	0.3213	0.2207	0.1738	0.1214	0.0977	0.0745	0.0593	0.0508	0.0429	0.0408	0.0303	0.0356	0.0545	0.0548	0.0538	0.0546	0.0538	0.0548	0.0542	
2	0.4028	0.2153	0.1497	0.1201	0.0893	0.0707	0.0604	0.0505	0.0412	0.0351	0.0347	0.0315	0.0386	0.0541	0.0547	0.0550	0.0539	0.0536			
3	0.3327	0.1788	0.1297	0.1050	0.0813	0.0679	0.0574	0.0413	0.0457	0.0354	0.0367	0.0323	0.0377	0.0545	0.0543	0.0543	0.0547				
4	0.3044	0.1649	0.1208	0.0930	0.0780	0.0634	0.0531	0.0404	0.0353	0.0336	0.0356	0.0312	0.0361	0.0542	0.0543	0.0543	0.0547				
6	0.2836	0.1509	0.1131	0.0961	0.0768	0.0627	0.0499	0.0349	0.0371	0.0368	0.0385	0.0354	0.0428	0.0537	0.0537	0.0539					
8	0.2612	0.1371	0.1134	0.0900	0.0596	0.0495	0.0377	0.0347	0.0361	0.0358	0.0423	0.0364	0.0386	0.0538							
12	0.2442	0.1484	0.1108	0.0875	0.0588	0.0390	0.0412	0.0361	0.0382	0.0358	0.0420	0.0360									
16	0.2253	0.1429	0.0821	0.0676	0.0432	0.0382	0.0407	0.0373	0.0386	0.0407	0.0360										
24	0.2542	0.1034	0.0576	0.0478	0.0466	0.0408	0.0431	0.0354	0.0388	0.0397	0.0353										
32	0.2407	0.1041	0.0576	0.0460	0.0444	0.0398	0.0392	0.0388	0.0397	0.0390	0.0353										
48	0.1751	0.0702	0.0602	0.0490	0.0479	0.0392	0.0390	0.0390	0.0390	0.0390	0.0353										
64	0.0983	0.0623	0.0589	0.0485	0.0485	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384										
96	0.1174	0.0748	0.0688	0.0485	0.0581	0.0384	0.0384	0.0384	0.0384	0.0384	0.0384										
128	0.0534	0.0543	0.0547	0.0552	0.0538	0.0543	0.0543	0.0543	0.0543	0.0543	0.0543										
192	0.0540	0.0542	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544	0.0544										
256	0.0535	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547	0.0547										
384	0.0544	0.0547	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548	0.0548										
512	0.0545	0.0537																			
768	0.0558																				
1,024	0.0535																				

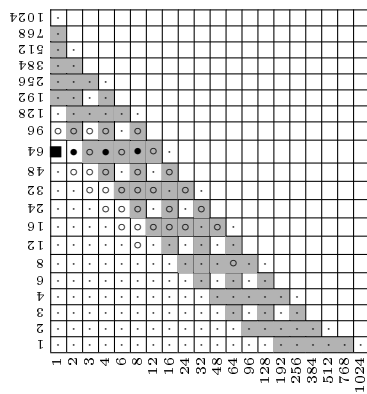


Table 274. Cannon Fermi: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	4.5706	2.3146	1.5667	1.1816	0.7841	0.5087	0.4020	0.3100	0.2058	0.1592	0.1418	0.1111	0.1300	0.0900	0.1297	0.0386	0.0872*	0.0375	0.0379	0.0383	
2	2.9373	1.4916	1.0017	0.7647	0.5135	0.3930	0.2617	0.2027	0.1506	0.1102	0.1284	0.1299	0.1294	0.1069	0.1270	0.0375	0.0380	0.0385			
3	2.4150	1.2323	0.8328	0.6284	0.4307	0.3191	0.2312	0.1517	0.1469	0.1188	0.1585	0.1300	0.1251	0.1101	0.1411	0.0378					
4	2.1462	1.0968	0.7883	0.5701	0.3785	0.2907	0.1800	0.1173	0.1145	0.1266	0.1301	0.1306	0.1289	0.1048	0.1302	0.0359					
6	1.9094	0.9637	0.6854	0.4902	0.3485	0.2097	0.1561	0.1140	0.1369	0.1316	0.1212	0.1289	0.1395	0.0955							
8	1.7771	0.9173	0.6048	0.4663	0.2724	0.1664	0.1283	0.1134	0.1248	0.1308	0.1260	0.1324	0.1286	0.0900							
12	1.6470	0.8305	0.5475	0.4324	0.2013	0.1307	0.1311	0.1249	0.1185	0.1298	0.1378	0.1296									
16	1.6210	0.8164	0.4989	0.2444	0.1686	0.1309	0.1206	0.1151	0.1100	0.1281	0.1260	0.1285									
24	1.5217	0.5847	0.3421	0.2152	0.1666	0.1280	0.1227	0.1102	0.1171	0.1316											
32	1.5217	0.4253	0.3065	0.1955	0.1594	0.1295	0.1262	0.1250	0.1245	0.1278											
48	1.0857	0.4374	0.2000	0.1974	0.11575	0.1330	0.1327	0.1236													
64	0.7853	0.3958	0.2921	0.2033	0.1693	0.1290	0.1356	0.1256													
96	0.8084	0.5462	0.3376	0.2350	0.1761	0.1430															
128	0.5045	0.2804	0.2851	0.1638	0.1395	0.0985															
192	1.2721	0.5455	0.4210	0.2713																	
256	0.0381	0.0388	0.0387	0.0396																	
384	0.0380	0.0380																			
512	0.0380	0.0373																			
768	0.0385																				
1024	0.0376																				

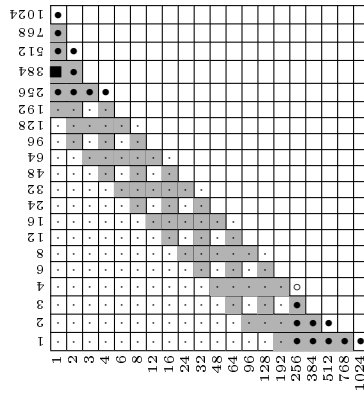


Table275. Cannon Fermi: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	140.512	70.278	48.920	35.233	23.557	17.777	11.896	8.954	6.008	4.536	4.319	3.235	(3.105)	3.139	(3.117)	3.128	(3.084)	(3.068)	(3.087)	3.244
2	96.509	48.254	32.170	24.128	16.088	12.066	8.044	6.034	4.317	(3.086)	(3.081)	3.127	3.128	3.124	(3.086)	(3.072)	(3.080)			
3	70.012	39.506	26.338	19.754	13.170	9.278	6.921	4.345	4.033	(3.119)	3.464	3.126	(3.080)	(3.093)	(3.081)	(3.076)				
4	70.275	35.138	23.225	17.569	11.714	8.785	5.209	3.279	(2.995)	(3.104)	(3.083)	(3.107)	(3.095)	(3.081)	(3.063)	3.170				
6	61.561	30.780	20.521	15.391	10.564	6.116	4.291	(2.994)	3.379	(3.122)	(3.093)	(3.107)	(3.096)	(3.085)						
8	57.221	28.607	19.072	14.303	7.956	4.602	3.374	(3.004)	(3.024)	(3.112)	(3.085)	(3.096)	(3.082)	3.143						
12	52.886	26.437	16.710	9.808	5.565	3.526	3.449	(3.017)	(2.968)	(3.084)	(3.047)	(3.096)								
16	51.094	25.548	12.675	7.486	4.693	3.453	3.229	(3.014)	(2.969)*	(3.071)	(3.028)	(3.101)								
24	48.918	17.980	10.210	6.287	4.548	3.457	3.221	(2.993)	(2.969)*	(3.071)										
32	47.725	13.158	9.567	6.330	4.467	3.457	3.221	(2.986)	(2.986)	(3.072)										
48	37.934	13.703	12.194	8.395	4.476	3.457	3.221	(2.982)	(2.986)	(3.069)										
64	57.637	23.420	14.494	8.543	4.560	3.477	3.225	(3.015)												
96	79.263	28.029	13.865	8.452	4.901	3.486														
128	97.616	28.549	14.592	8.402	5.173	3.467														
192	124.798	29.122	13.225	8.372																
256	133.722	30.012	14.671	6.212																
384	131.256	30.510																		
512	135.476	24.142																		
768	161.199																			
1024	141.040																			

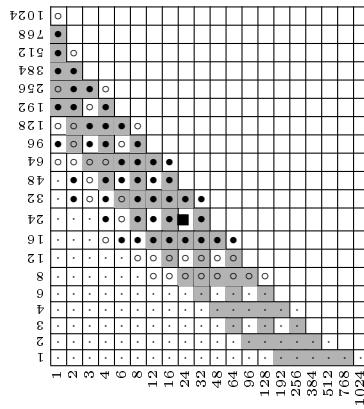


Table 276. Cannon Fermi: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1.7501	0.9028	0.6137	0.4693	0.3183	0.2480	0.1793	0.1342	0.1101	0.0878	0.0663	(0.0424)	(0.0433)	0.0538	0.0527	0.0525	0.0538	0.0534	0.0532	0.0540
2	0.9889	0.5124	0.3435	0.2705	0.1942	0.1459	0.1176	0.0945	0.0712	0.0654	0.0456	(0.0434)	(0.0434)	0.0542	0.0539	0.0625	0.0532			
3	0.7307	0.3767	0.2897	0.2093	0.1543	0.1274	0.1009	0.0704	0.0701	(0.0435)	0.0448	(0.0431)	(0.0434)	0.0525	0.0537	0.0543				
4	0.6058	0.3159	0.2260	0.1680	0.1363	0.1094	0.0744	0.0597	0.0465	(0.0435)	0.0458	(0.0435)	(0.0429)	0.0545	0.0658	0.0543				
6	0.4877	0.2582	0.1883	0.1551	0.1222	0.0795	0.0785	0.0461	0.0465	(0.0435)	0.0453	(0.0434)	(0.0437)	0.0773						
8	0.4102	0.2150	0.1736	0.1366	0.0895	0.0822	0.0505	0.0457	0.0449	(0.0435)	0.0460	(0.0424)*	(0.0433)	0.0527						
12	0.3576	0.1921	0.1518	0.1033	0.0678	0.0521	0.0526	0.0508	0.0449	(0.0432)	0.0460	(0.0428)								
16	0.3105	0.1749	0.1433	0.0821	0.0705	0.0573	0.0580	0.0472	0.0455	(0.0434)	0.0454	(0.0439)								
24	0.3267	0.1704	0.1068	0.0761	0.0782	0.0579	0.0548	0.0546	0.0461											
32	0.2933	0.1399	0.1125	0.0879	0.0782	0.0583	0.0638	0.0460	0.0458	(0.0433)										
48	0.1846	0.1160	0.0979	0.0863	0.0719	0.0506	0.0526	0.0466												
64	0.2326	0.1543	0.1292	0.0884	0.0950	0.0580														
96	0.0335	0.0531	0.0529	0.0538	0.0537	0.0546														
128	0.0328	0.0533	0.0537	0.0546																
192	0.0329	0.0541	0.0535	0.0544																
256	0.0339	0.0545																		
384	0.0339	0.0545																		
512	0.0334	0.0543																		
768	0.0338																			
1024	0.0341																			

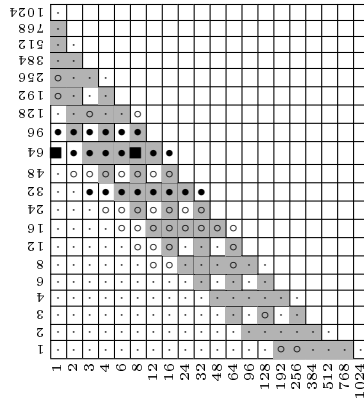


Table277. Cannon Fermi: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	13.8767	6.9580	4.6540	3.5018	2.3377	1.7588	1.1846	0.8977	0.6009	0.4595	0.3222	0.2348	0.1867	0.1087	0.1279	0.0368	0.0356	0.0361	0.0361	0.0365
2	7.6350	3.8357	2.5632	1.9287	1.2974	0.9859	0.6567	0.5031	0.3533	0.2853	0.2040	0.1441	0.1001	0.1118	0.1268	0.0355	0.0355	0.0361	0.0361	0.0365
3	5.5721	2.7941	1.8757	1.4159	0.9661	0.7184	0.4979	0.3530	0.2560	0.1869	0.1563	0.1269	0.1219	0.1230	0.1438	0.0353	0.0353	0.0361	0.0361	0.0365
4	4.5309	2.2816	1.5844	1.1668	0.7781	0.5931	0.3878	0.2581	0.2070	0.1439	0.1258	0.1272	0.1274	0.1226	0.1289	0.0350	0.0350	0.0361	0.0361	0.0365
6	3.0048	1.7760	1.2139	0.8959	0.6288	0.4196	0.3042	0.2070	0.1509	0.1266	0.1212	0.1269	0.1433	0.1109	0.1286	0.0996	0.0996	0.0996	0.0996	0.0996
8	3.0023	1.5374	1.0133	0.7783	0.4891	0.3077	0.2509	0.1600	0.1300	0.1292	0.1259	0.1302	0.1286	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
12	2.5113	1.2681	0.8525	0.5662	0.4179	0.2750	0.2340	0.1308	0.1300	0.1292	0.1259	0.1282	0.1286	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
16	2.2915	1.1577	0.7413	0.4366	0.3179	0.2478	0.2036	0.1207	0.1300	0.1292	0.1259	0.1282	0.1286	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
24	2.0104	1.0500	0.7413	0.4366	0.3179	0.2478	0.2036	0.1207	0.1300	0.1292	0.1259	0.1282	0.1286	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
32	1.9266	0.9391	0.6803	0.4486	0.3510	0.2488	0.2212	0.1303	0.1300	0.1292	0.1259	0.1282	0.1286	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
48	1.9271	0.9152	0.6330	0.4548	0.3615	0.2610	0.2861	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563
64	1.8202	0.9014	0.6814	0.4588	0.3685	0.2420	0.2417	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622
96	1.8737	0.8742	0.6547	0.4803	0.3793	0.2870	0.2870	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622
128	1.1644	0.6295	0.4834	0.3617	0.3121	0.2033	0.2033	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622
192	1.7407	0.9877	0.7293	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437
256	(0.0362)	(0.0348)	(0.0362)	(0.0348)*	(0.0362)	(0.0348)*	(0.0362)	(0.0348)*	(0.0362)	(0.0348)*	(0.0362)	(0.0348)*	(0.0362)	(0.0348)*	(0.0362)	(0.0348)*	(0.0362)	(0.0348)*	(0.0362)	(0.0348)*
384	(0.0362)	(0.0362)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)
512	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)
768	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370
1024	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368

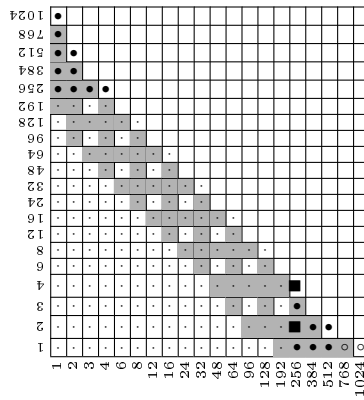


Table 278. Cannon Fermi: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	450.261	225.133	150.091	112.570	75.053	56.280	37.532	28.151	18.773	14.082	9.411	7.062	4.740	3.589	(3.115)	(3.086)	(3.092)	(3.093)	(3.103)	3.710
2	243.663	123.333	82.226	61.671	41.117	30.839	20.583	15.423	10.325	7.048	5.189	3.875	(3.121)	(3.093)	(3.095)	(3.087)	(3.095)	(3.095)		
3	179.353	89.679	59.788	44.842	29.897	22.423	15.041	10.324	6.952	4.722	3.515	(3.117)	(3.091)	(3.088)	3.233	(3.088)				
4	145.831	72.918	48.614	36.461	24.310	18.233	11.317	7.767	5.254	3.572	(3.083)	(3.092)	(3.091)	(3.081)	(3.084)					
6	112.524	56.262	37.511	28.134	18.315	12.291	8.291	5.252	3.622	(3.118)	(3.061)	(3.078)	3.212	(3.080)						
8	96.016	48.010	32.007	24.006	14.318	9.318	6.388	4.017	3.680	(3.091)	(3.040)	(3.078)	(3.078)	3.592						
12	70.793	39.898	25.875	16.430	11.063	7.549	5.980	3.830	3.623	(3.075)	3.503	(3.078)								
16	52.922	30.464	20.878	13.035	10.430	7.010	5.790	3.616	3.598	(3.062)	(3.041)	3.619								
24	41.653	23.088	19.077	13.917	10.429	6.994	5.824	3.602	3.817	(3.096)										
32	39.397	22.868	20.307	14.122	10.429	6.971	6.001	3.627	3.658	3.774										
48	36.138	27.831	20.384	14.083	10.471	6.960	5.870	4.282												
64	120.720	48.616	20.744	14.194	10.460	6.998														
128	139.449	52.628	21.946	14.409	10.456	7.047														
192	135.683	58.966	22.386	14.648																
256	137.711	60.392	22.886																	
384	141.301	61.454	24.784	14.969																
512	143.841																			
768	144.168	53.653																		
1024	148.676																			

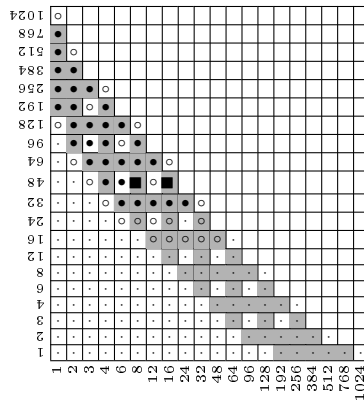


Table 279. Cannon Fermi: Without L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.6116	0.3209	0.2216	0.1734	0.1211	0.0981	0.0746	0.0598	0.0504	0.0435	0.0397	0.0297	0.0355	0.0531	0.0527	0.0583	0.0534	0.0535	0.0547	0.0538
2	0.4029	0.2170	0.1494	0.1196	0.0893	0.0703	0.0597	0.0491	0.0412	0.0386	0.0351	0.0315	0.0384	0.0540	0.0526	0.0536	0.0541	0.0537		
3	0.3338	0.1782	0.1300	0.1055	0.0809	0.0686	0.0572	0.0405	0.0463	0.0343	0.0390	0.0312	0.0380	0.0538	0.0540	0.0540	0.0540	0.0540		
4	0.3049	0.1623	0.1199	0.0919	0.0773	0.0634	0.0458	0.0399	0.0379	0.0337	0.0357	0.0313	0.0383	0.0538	0.0538	0.0539	0.0541	0.0537		
6	0.2829	0.1511	0.1143	0.0852	0.0770	0.0600	0.0495	0.0350	0.0372	0.0358	0.0384	0.0350	0.0425	0.0542	0.0539	0.0544				
8	0.2614	0.1363	0.1135	0.0809	0.0593	0.0490	0.0401	0.0344	0.0367	0.0356	0.0361	0.0398	0.0357	0.0537						
12	0.2447	0.1482	0.1112	0.0870	0.0594	0.0424	0.0400	0.0357	0.0372	0.0366	0.0435	0.0411								
16	0.2252	0.1435	0.0820	0.0675	0.0509	0.0436	0.0415	0.0356	0.0355	0.0404										
24	0.2549	0.1070	0.0906	0.0547	0.0500	0.0412	0.0423	0.0350	0.0356	0.0356										
32	0.2370	0.1088	0.0649	0.0563	0.0518	0.0405	0.0395	0.0396	0.0352	0.0356										
48	0.1865	0.0824	0.0678	0.0574	0.0523	0.0440	0.0440	0.0352	0.0384	0.0352										
64	0.0978	0.0630	0.0581	0.0450	0.0450	0.0440	0.0440	0.0352	0.0380	0.0398										
96	0.1284	0.0862	0.0749	0.0574	0.0544	0.0441	0.0462													
128	0.0337	0.0541	0.0583	0.0550	0.0548	0.0528														
192	0.0634	0.0543	0.0510	0.0538																
256	0.0540	0.0536	0.0584	0.0534																
384	0.0534	0.0539																		
512	0.0534	0.0532																		
768	0.0528																			
1,024	0.0539																			

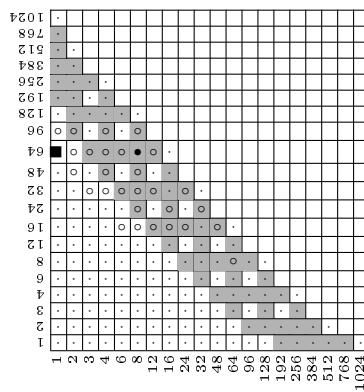


Table 280. CannonModified Fermi: Normal L1, size 96×96, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	4.5687	2.3212	1.5556	1.1796	0.7844	0.5927	0.4014	0.3095	0.2054	0.1588	0.1411	0.1104	0.1305	0.0907	0.1317	0.0959	0.0861	0.0856	0.0859	0.0867	0.0867
2	2.9382	1.4896	1.0008	0.7617	0.5133	0.3931	0.2812	0.2021	0.1503	0.1099	0.1209	0.1314	0.1292	0.1150	0.1297	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
3	2.4153	1.2316	0.8286	0.6273	0.4290	0.3184	0.2308	0.1508	0.1493	0.1193	0.1568	0.1391	0.1234	0.0942	0.1410	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
4	2.1474	1.0974	0.7390	0.5700	0.3761	0.2902	0.1794	0.1163	0.1126	0.1216	0.1287	0.1284	0.1302	0.1241	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
6	1.7799	0.9648	0.6700	0.4898	0.3479	0.2709	0.1560	0.1162	0.1107	0.1305	0.1193	0.1310	0.1401	0.1260	0.1301	0.0961	0.0861	0.0856	0.0859	0.0867	0.0867
8	1.6583	0.9209	0.6049	0.4664	0.2723	0.1567	0.1300	0.1162	0.1107	0.1305	0.1272	0.1266	0.1316	0.0891							
12	1.5833	0.8341	0.5488	0.3957	0.2146	0.1305	0.1351	0.1166	0.1109	0.1322	0.1298	0.1291									
16	1.6323	0.8204	0.4316	0.2450	0.1813	0.1439	0.1308	0.1152	0.1103	0.1322	0.1298	0.1291									
24	1.5726	0.6044	0.3616	0.2324	0.2303	0.1892	0.1344	0.1221	0.1168	0.1319											
32	1.5778	0.4916	0.3336	0.3479	0.2791	0.1815	0.1280	0.1224	0.1168	0.1319											
48	1.2638	0.7857	0.6122	0.5104	0.3116	0.1949	0.1428	0.1268	0.1281	0.1262											
64	1.0600	0.8197	0.7280	0.4903	0.3372	0.2311	0.1618	0.1253													
96	2.0687	1.8426	0.8636	0.6001	0.3099	0.2680															
128	1.0033	0.7978	0.6476	0.4071	0.2996	0.1697															
192	2.5854	1.4743	0.9204	0.7275																	
256	(0.0358)	(0.0355)	(0.0355)	(0.0357)																	
384	(0.0363)	(0.0364)																			
512	(0.0367)	(0.0355)																			
768	(0.0361)																				
1024	(0.0358)																				

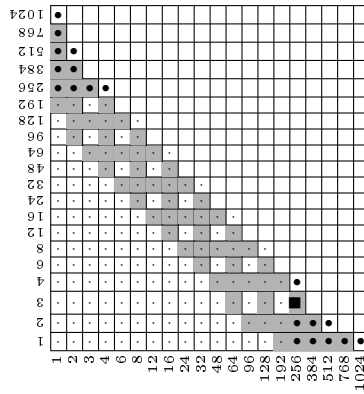


Table281. CannonModified Fermi: Normal L1, size 192×192, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024		
1	151.049	75.524	50.349	37.763	25.177	18.881	12.589	9.442	6.296	4.733	4.177	(3.133)	(3.123)	(3.123)	(3.118)	(3.116)	(3.116)	(3.087)	(3.065)	(3.086)	3.244	
2	96.540	48.267	32.179	24.135	16.090	12.069	8.047	6.035	4.382	(3.088)	(3.065)	(3.111)	(3.127)	(3.119)	(3.127)	(3.127)	(3.119)	(3.127)	(3.119)	(3.127)	(3.119)	(3.127)
3	79.030	39.516	26.344	19.768	13.172	9.880	7.044	4.397	4.043	(3.110)	(3.068)	(3.127)	(3.110)	(3.127)	(3.110)	(3.127)	(3.110)	(3.127)	(3.110)	(3.127)	(3.110)	(3.127)
4	70.296	35.152	23.334	17.576	11.719	8.788	5.512	3.446	(3.072)	(3.104)	(3.068)	(3.111)	(3.086)	(3.091)	(3.106)	(3.074)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)	(3.074)
6	62.145	31.188	20.780	15.577	11.393	8.595	5.166	(3.097)	(3.125)	(3.110)	(3.052)	(3.091)	(3.116)	(3.086)	(3.125)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)
8	61.109	30.514	20.299	15.384	9.482	6.798	4.531	(3.094)	(3.092)	(3.089)	(3.042)	(3.073)	(3.082)	(3.125)	(3.125)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)
12	65.617	32.883	21.162	15.616	8.943	5.462	4.531	(3.094)	(3.092)	(3.089)	(3.042)	(3.073)	(3.082)	(3.125)	(3.125)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)
16	64.569	32.360	18.386	12.830	9.942	5.907	5.579	(3.094)	(3.092)	(3.089)	(3.042)	(3.073)	(3.082)	(3.125)	(3.125)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)
24	82.115	34.127	26.211	17.888	13.643	8.418	5.378	(3.094)	(3.092)	(3.089)	(3.042)	(3.073)	(3.082)	(3.125)	(3.125)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)
32	101.077	50.092	33.711	22.938	16.087	8.487	5.518	(3.094)	(3.092)	(3.089)	(3.042)	(3.073)	(3.082)	(3.125)	(3.125)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)
48	110.158	55.500	38.257	24.939	15.729	8.481	4.980	(3.095)	(3.092)	(3.089)	(3.042)	(3.073)	(3.082)	(3.125)	(3.125)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)
64	120.698	57.788	38.451	24.478	15.849	8.439	5.730	(3.095)	(3.092)	(3.089)	(3.042)	(3.073)	(3.082)	(3.125)	(3.125)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)
96	141.817	63.147	38.700	24.956	13.874	8.439	5.730	(3.095)	(3.092)	(3.089)	(3.042)	(3.073)	(3.082)	(3.125)	(3.125)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)	(3.074)	(3.121)
128	159.337	65.905	39.611	25.160	15.997	6.230																
192	178.588	69.764	37.235	24.828																		
256	178.633	71.337	40.674	22.823																		
384	182.769	76.291																				
512	184.614																					
768	188.491	61.632																				
1024	188.634																					

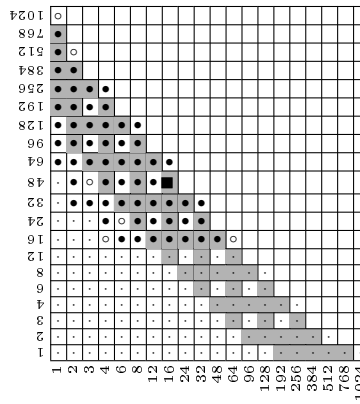


Table282. CannonModified Fermi: Normal L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1,024
1	0.6141	0.3213	0.2207	0.1738	0.1214	0.0977	0.0745	0.0593	0.0508	0.0429	0.0408	0.0303	0.0356	0.0545	0.0548	0.0538	0.0546	0.0538	0.0548	0.0542
2	0.4028	0.2153	0.1497	0.1201	0.0893	0.0707	0.0604	0.0505	0.0412	0.0351	0.0347	0.0315	0.0386	0.0541	0.0547	0.0550	0.0539	0.0536		
3	0.3327	0.1788	0.1297	0.1050	0.0813	0.0679	0.0574	0.0413	0.0457	0.0354	0.0367	0.0323	0.0377	0.0545	0.0543	0.0543	0.0547			
4	0.3044	0.1649	0.1208	0.0930	0.0780	0.0634	0.0531	0.0404	0.0353	0.0336	0.0356	0.0312	0.0361	0.0542	0.0543	0.0543	0.0547			
6	0.2836	0.1509	0.1131	0.0961	0.0768	0.0627	0.0499	0.0349	0.0371	0.0368	0.0385	0.0354	0.0428	0.0537	0.0537	0.0539				
8	0.2612	0.1371	0.1134	0.0900	0.0596	0.0495	0.0377	0.0347	0.0361	0.0358	0.0423	0.0397	0.0464	0.0538	0.0538					
12	0.2442	0.1484	0.1108	0.0875	0.0588	0.0390	0.0412	0.0361	0.0382	0.0358	0.0423	0.0397	0.0464	0.0538	0.0538					
16	0.2253	0.1429	0.0821	0.0876	0.0432	0.0382	0.0407	0.0373	0.0386	0.0407	0.0360	0.0420	0.0360	0.0362	0.0408					
24	0.2542	0.1034	0.0576	0.0478	0.0466	0.0408	0.0431	0.0354	0.0388	0.0397	0.0353	0.0381	0.0407							
32	0.2407	0.1041	0.0576	0.0460	0.0444	0.0479	0.0392	0.0388	0.0388	0.0397	0.0353	0.0381	0.0407							
48	0.1751	0.0702	0.0602	0.0490	0.0445	0.0426	0.0350	0.0381	0.0381	0.0407										
64	0.0983	0.0623	0.0550	0.0485	0.0485	0.0581	0.0384													
96	0.1174	0.0748	0.0668	0.0485	0.0485	0.0581	0.0384													
128	0.0534	0.0543	0.0547	0.0552	0.0536	0.0543														
192	0.0540	0.0542	0.0547	0.0552	0.0536	0.0543														
256	0.0535	0.0547	0.0547	0.0552	0.0536	0.0543														
384	0.0544	0.0547	0.0543	0.0549																
512	0.0545	0.0537																		
768	0.0558																			
1,024	0.0535																			

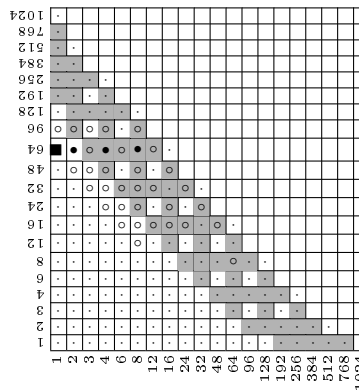


Table 283. CannonModified Fermi: Increased L1, size 96×96, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	4.5706	2.3146	1.5667	1.1816	0.7841	0.5087	0.4020	0.3100	0.2058	0.1592	0.1418	0.1111	0.1300	0.0900	0.1297	0.0386	0.0872*	0.0375	0.0379	0.0383	
2	2.9373	1.4916	1.0017	0.7647	0.5135	0.3930	0.2817	0.2027	0.1506	0.1102	0.1284	0.1299	0.1294	0.1069	0.1270	0.0375	0.0380	0.0385			
3	2.4150	1.2323	0.8328	0.6284	0.4307	0.3191	0.2312	0.1517	0.1489	0.1188	0.1585	0.1300	0.1251	0.1101	0.1411	0.0378					
4	2.1462	1.0968	0.7883	0.5701	0.3785	0.2907	0.1800	0.1173	0.1145	0.1266	0.1301	0.1306	0.1289	0.1048	0.1302	0.0389					
6	1.9094	0.9637	0.6854	0.4902	0.3485	0.2097	0.1561	0.1140	0.1369	0.1316	0.1212	0.1289	0.1395	0.0955							
8	1.7771	0.9173	0.6048	0.4663	0.2724	0.1664	0.1283	0.1134	0.1248	0.1308	0.1260	0.1324	0.1286	0.0900							
12	1.6470	0.8305	0.5475	0.3924	0.2013	0.1307	0.1311	0.1249	0.1185	0.1298	0.1378	0.1296									
16	1.6210	0.8164	0.4989	0.2444	0.1686	0.1309	0.1206	0.1151	0.1100	0.1281	0.1260	0.1285									
24	1.5217	0.8247	0.3421	0.2152	0.1686	0.1280	0.1227	0.1102	0.1171	0.1316											
32	1.5217	0.4253	0.3065	0.1955	0.1594	0.1295	0.1262	0.1250	0.1245	0.1278											
48	1.0857	0.4374	0.2000	0.1974	0.1575	0.1330	0.1327	0.1286													
64	0.7853	0.3958	0.2921	0.2033	0.1693	0.1290	0.1356	0.1266													
96	0.8084	0.5482	0.3376	0.2350	0.1761	0.1430															
128	0.5045	0.2804	0.2851	0.1638	0.1395	0.0985															
192	1.2721	0.5455	0.4210	0.2713																	
256	(0.0381)	(0.0388)	(0.0387)	0.0396																	
384	(0.0380)	(0.0380)																			
512	(0.0380)	(0.0373)																			
768	(0.0385)																				
1024	(0.0376)																				

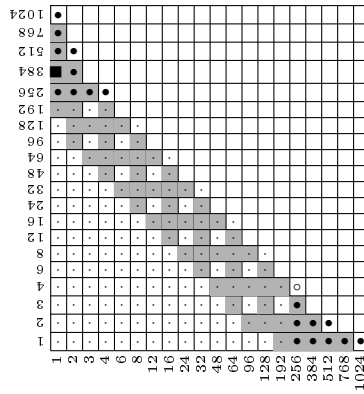


Table284. CannonModified Fermi: Increased L1, size 192×192, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	140.512	70.278	46.920	35.233	23.557	17.777	11.896	8.954	6.008	4.536	4.319	3.235	(3.105)	3.139	(3.117)	3.128	(3.084)	(3.068)	(3.087)	3.244
2	96.509	48.254	32.170	24.128	16.088	12.066	8.044	6.034	4.317	(3.086)	(3.081)	3.127	3.128	3.124	(3.086)	(3.072)	(3.080)	(3.068)	(3.087)	3.244
3	70.012	39.506	26.338	19.754	13.170	9.878	6.921	4.345	4.033	(3.119)	(3.084)	3.126	(3.080)	(3.093)	(3.081)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
4	70.275	35.138	23.325	17.569	11.714	8.785	5.209	3.279	(2.995)	(3.104)	(3.083)	(3.107)	(3.086)	(3.081)	(3.063)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
6	61.561	30.780	20.521	15.391	10.564	6.116	4.291	(2.994)	3.379	(3.122)	(3.083)	(3.107)	(3.086)	(3.081)	(3.063)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
8	57.221	28.607	19.072	14.303	7.956	4.602	3.374	(3.004)	(3.024)	(3.112)	(3.083)	(3.107)	(3.086)	(3.081)	(3.063)	(3.076)	(3.080)	(3.068)	(3.087)	3.244
12	52.886	26.437	16.710	9.808	5.565	3.526	3.449	(3.017)	(2.968)	(3.084)	(3.047)	(3.096)	(3.086)	(3.101)						
16	51.094	25.548	12.675	7.486	4.693	3.453	3.229	(3.014)	(2.968)*	(3.071)	(3.028)	(3.101)								
24	48.918	17.980	10.210	6.287	4.548	3.457	3.221	(2.993)	(2.969)*	(3.072)										
32	47.725	13.158	9.567	6.330	4.467	3.457	3.221	(2.986)	(2.986)	(3.069)										
48	37.934	13.703	12.194	8.395	4.476	3.457	3.221	(2.982)												
64	57.637	23.420	14.494	8.543	4.560	3.477	3.225	(3.015)												
96	79.263	28.029	13.865	8.452	4.901	3.486														
128	97.616	28.549	14.592	8.402	5.173	3.467														
192	124.798	29.122	13.225	8.372																
256	133.722	30.012	14.671	6.212																
384	131.256	30.510																		
512	135.476	24.142																		
768	161.199																			
1024	141.040																			

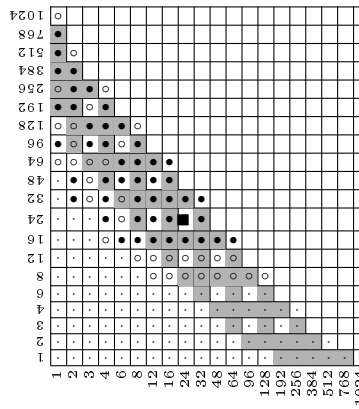


Table285. CannonModified Fermi: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1.7501	0.9028	0.6137	0.4693	0.3183	0.2480	0.1793	0.1342	0.1101	0.0878	0.0663	(0.0424)	(0.0433)	0.0538	0.0527	0.0525	0.0538	0.0534	0.0532	0.0540
2	0.9889	0.5124	0.3435	0.2705	0.1942	0.1459	0.1176	0.0945	0.0712	0.0654	0.0456	(0.0434)	(0.0434)	0.0542	0.0539	0.0525	0.0532	0.0532		
3	0.7307	0.3767	0.2897	0.2093	0.1543	0.1274	0.1009	0.0704	0.0701	(0.0435)	0.0448	(0.0431)	(0.0431)	0.0525	0.0537	0.0543				
4	0.6058	0.3159	0.2260	0.1680	0.1363	0.1094	0.0744	0.0597	0.0465	(0.0435)	0.0458	(0.0435)	(0.0429)	0.0545	0.0658	0.0543				
6	0.4877	0.2582	0.1883	0.1551	0.1222	0.0795	0.0785	0.0461	0.0465	(0.0435)	0.0453	(0.0434)	(0.0437)	0.0773						
8	0.4102	0.2150	0.1736	0.1366	0.0895	0.0822	0.0505	0.0457	0.0449	(0.0432)	0.0460	(0.0424)*	(0.0433)	0.0527						
12	0.3576	0.1921	0.1518	0.1034	0.0678	0.0529	0.0508	0.0457	0.0449	(0.0432)	0.0460	(0.0428)								
16	0.3105	0.1749	0.1433	0.0821	0.0705	0.0573	0.0580	0.0472	0.0455	(0.0434)	0.0454									
24	0.3067	0.1704	0.1068	0.0761	0.0782	0.0579	0.0546	0.0463	0.0454	(0.0433)										
32	0.2933	0.1399	0.1125	0.0879	0.0782	0.0583	0.0638	0.0460	0.0458	(0.0433)										
48	0.1846	0.1160	0.0979	0.0663	0.0719	0.0506	0.0526	0.0466												
64	0.2326	0.1543	0.1292	0.0884	0.0950	0.0580														
96	0.0335	0.0531	0.0529	0.0538	0.0537	0.0533														
128	0.0328	0.0533	0.0537	0.0546																
192	0.0329	0.0541																		
256	0.0339	0.0545																		
384	0.0334																			
512	0.0338																			
768																				
1024	0.0341																			

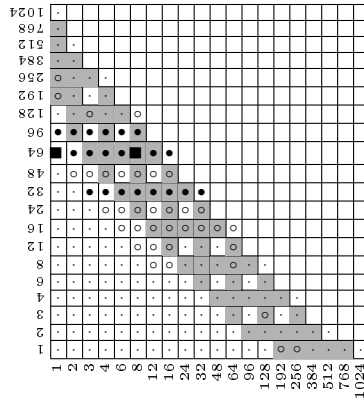


Table286. CannonModified Fermi: Without L1, size 96×96, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	13.8767	6.9580	4.6540	3.5018	2.3377	1.7588	1.1846	0.8977	0.6009	0.4595	0.3222	0.2348	0.1867	0.1087	0.1279	0.0368	0.0359	0.0361	0.0361	0.0365
2	7.6350	3.8357	2.5632	1.9287	1.2974	0.9859	0.6567	0.5031	0.3533	0.2853	0.2040	0.1441	0.1001	0.1118	0.1268	0.0355	0.0355	0.0361	0.0361	0.0365
3	5.5721	2.7941	1.8757	1.4159	0.9661	0.7184	0.4979	0.3530	0.2560	0.1869	0.1563	0.1269	0.1219	0.1230	0.1438	0.0353	0.0353	0.0361	0.0361	0.0365
4	4.5309	2.2816	1.5844	1.1668	0.7781	0.5931	0.3878	0.2581	0.2070	0.1439	0.1258	0.1272	0.1274	0.1226	0.1289	0.0350	0.0350	0.0361	0.0361	0.0365
6	3.5048	1.7760	1.2139	0.8959	0.6288	0.4196	0.3042	0.2070	0.1509	0.1266	0.1212	0.1269	0.1433	0.1109	0.1286	0.0996	0.0996	0.0996	0.0996	0.0996
8	3.0023	1.5374	1.0133	0.7783	0.4891	0.3077	0.2509	0.1600	0.1300	0.1292	0.1259	0.1302	0.1286	0.1109	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
12	2.5113	1.2681	0.8525	0.5662	0.4179	0.2750	0.2340	0.1308	0.1300	0.1292	0.1259	0.1286	0.1286	0.1109	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
16	2.2915	1.1577	0.7413	0.4366	0.3179	0.2478	0.2036	0.1207	0.1300	0.1292	0.1259	0.1286	0.1286	0.1109	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
24	2.0104	1.0500	0.7413	0.4366	0.3179	0.2478	0.2036	0.1207	0.1300	0.1292	0.1259	0.1286	0.1286	0.1109	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
32	1.9266	0.9391	0.6803	0.4486	0.3510	0.2488	0.2212	0.1303	0.1300	0.1292	0.1259	0.1286	0.1286	0.1109	0.0996	0.0996	0.0996	0.0996	0.0996	0.0996
48	1.9271	0.9152	0.6330	0.4548	0.3615	0.2610	0.2861	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563	0.1563
64	1.8202	0.9014	0.6814	0.4588	0.3685	0.2420	0.2417	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622
96	1.8737	0.8742	0.6547	0.4803	0.3793	0.2870	0.2870	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622
128	1.1644	0.6295	0.4834	0.3617	0.3121	0.2033	0.2033	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622	0.1622
192	1.7407	0.9877	0.7293	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437	0.5437
256	(0.0362)	(0.0348)	(0.0348)*	(0.0362)	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*	(0.0348)*
384	(0.0362)	(0.0362)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)	(0.0361)
512	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)	(0.0357)
768	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370
1024	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368	0.0368

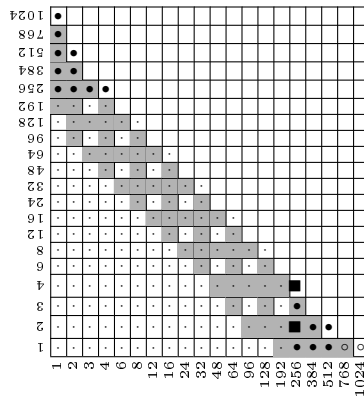


Table 287. CannonModified Fermi: Without L1, size 192×192, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	450.261	225.133	150.091	112.570	75.053	56.280	37.532	28.151	18.773	14.082	9.411	7.062	4.740	3.589	(3.119)	(3.089)	(3.092)	(3.093)	(3.103)	3.710	
2	243.663	123.333	82.226	61.671	41.117	30.839	20.583	15.423	10.325	7.048	5.189	3.575	(3.121)	(3.093)	(3.095)	(3.087)	(3.095)	(3.095)			
3	179.353	89.679	59.788	44.842	29.897	22.423	15.041	10.324	6.952	4.722	3.515	(3.117)	(3.091)	(3.088)	3.223	(3.088)	(3.088)				
4	145.831	72.918	48.614	36.461	24.310	18.233	11.317	7.767	5.254	3.572	(3.083)	(3.092)	(3.091)	(3.081)	(3.084)	(3.084)					
6	112.524	56.262	37.511	28.134	18.315	12.291	8.291	5.252	3.622	(3.118)	(3.061)	(3.078)	3.212	(3.080)							
8	96.016	48.010	32.007	24.006	14.318	9.318	6.388	4.017	3.680	(3.091)	(3.040)	(3.078)	(3.078)	3.592							
12	70.793	39.898	25.875	16.430	11.063	7.549	5.980	3.830	3.623	(3.075)	3.503	(3.078)									
16	52.922	36.464	20.878	13.935	10.430	7.010	5.790	3.616	3.598	(3.062)	(3.041)	3.619									
24	65.615	29.088	21.010	13.935	10.430	6.974	5.824	3.602	3.817	(3.096)											
32	61.653	28.955	19.777	13.917	10.429	6.971	5.826	3.627	3.658	3.774											
48	59.397	27.868	20.307	14.122	10.492	6.971	6.001	3.664													
64	56.138	27.831	20.384	14.194	10.471	6.969	5.870	4.282													
96	120.720	48.616	20.744	14.194	10.460	6.998															
128	139.449	52.628	21.946	14.409	10.456	7.047															
192	185.683	58.966	22.386	14.648																	
256	137.711	60.392	24.784																		
384	141.301	61.454																			
512	143.841																				
768	144.168																				
1024	148.676																				

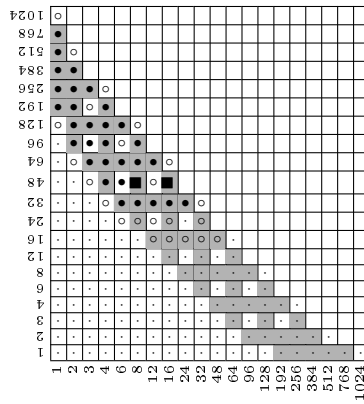


Table288. CannonModified Fermi: Without L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1 024	
1	0.5511	0.2888	0.1997	0.1565	0.1122	0.0902	0.0679	0.0577	0.0442	0.0443	0.0390	(0.0315)	0.0328	0.0584	0.0580	0.0580	0.0557	0.0586	0.0587	0.0584	
2	0.4375	0.2289	0.1619	0.1274	0.0928	0.0814	0.0569	0.0580	0.0472	0.0388	0.0368	(0.0315)	0.0322	0.0583	0.0588	0.0588	0.0586	0.0570			
3	0.3840	0.1944	0.1372	0.1095	0.0798	0.0668	0.0521	0.0470	0.0434	0.0331	0.0378	(0.03017)	(0.0314)	0.0572	0.0566	0.0570					
4	0.3279	0.1764	0.1260	0.1079	0.0748	0.0737	0.0527	0.0471	0.0364	0.0288	0.0362	(0.0314)	0.0323	0.0590	0.0580	0.0587					
6	0.2906	0.1580	0.1135	0.0910	0.0693	0.0585	0.0468	0.0382	0.0387	0.0333	0.0385	0.0322	0.0320	0.0590	0.0580	0.0587					
8	0.2714	0.1628	0.1076	0.1071	0.0694	0.0583	0.0436	0.0388	0.0349	0.0339	0.0362	0.0322	0.0333	0.0598							
12	0.2549	0.1399	0.0984	0.802	0.0530	0.0422	0.0433	0.0375	0.0372	0.0323	0.0360	(0.0316)									
16	0.2700	0.1716	0.0981	0.0794	0.0461	0.0426	0.0427	0.0442	0.0371	0.0355	0.0350	(0.0317)									
24	0.2368	0.1225	0.0751	0.0544	0.0508	0.0427	0.0433	0.0390	0.0374	0.0361	0.0380	(0.0317)									
32	0.3016	0.1222	0.0672	0.0540	0.0487	0.0410	0.0442	0.0444	0.0421	0.0354	0.0350										
48	0.2175	0.0915	0.0752	0.0540	0.0487	0.0422	0.0434	0.0408													
64	0.1172	0.0738	0.0638	0.0516	0.0461	0.0414	0.0398	0.0329													
96	0.1832	0.0928	0.0687	0.0545	0.0478	0.0468															
128	0.0897	0.0588	0.0585	0.0581	0.0581	0.0582															
192	0.0890	0.0590	0.0587	0.0598																	
256	0.0800	0.0594	0.0587	0.0589																	
384	0.0586	0.0582																			
512	0.0804	0.0600																			
768	0.0586																				
1024	0.0801																				

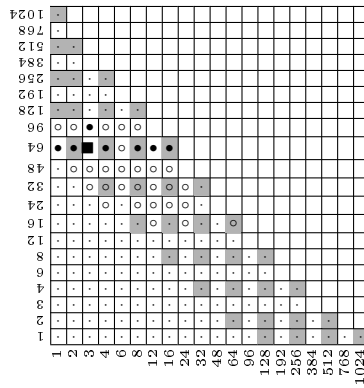


Table 289. Cannon Kepler: Normal L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	4.0317	2.0533	1.3780	1.0321	0.6961	0.4521	0.3511	0.2649	0.1794	0.1360	0.1012	0.0815	0.0713	0.0518	0.0350	0.0266	0.0186	0.0137	0.0095	0.0068	0.0050
2	3.2277	1.6280	1.0883	0.8184	0.5479	0.4126	0.2777	0.2099	0.1577	0.1216	0.0967	0.0789	0.0705	0.0521	0.0382	0.0290	0.0206	0.0151	0.0110	0.0080	0.0061
3	2.6676	1.3456	0.8906	0.6769	0.4536	0.3420	0.2366	0.1667	0.1304	0.0759	0.0895	0.0711	0.0684	0.0494	0.0363	0.0271	0.0191	0.0141	0.0105	0.0078	0.0060
4	2.3889	1.2038	0.8055	0.6058	0.4063	0.3085	0.1799	0.1230	0.1158	0.0759	0.0879	0.0715	0.0686	0.0552	0.0386	0.0292	0.0211	0.0156	0.0116	0.0085	0.0066
6	2.1105	1.0616	0.7112	0.5351	0.3667	0.2118	0.1588	0.1129	0.1191	0.0728	0.0892	0.0685	0.0695	0.0481	0.0352	0.0260	0.0181	0.0131	0.0095	0.0070	0.0053
8	1.9720	0.9920	0.6642	0.4999	0.2805	0.1768	0.1307	0.1159	0.1083	0.0718	0.0850	0.0758	0.0686	0.0472	0.0343	0.0251	0.0172	0.0122	0.0086	0.0061	0.0045
12	1.8340	0.9221	0.5848	0.3431	0.2138	0.1566	0.1374	0.1184	0.1129	0.0765	0.0988	0.0701									
16	1.7652	0.8872	0.4422	0.2687	0.2365	0.1889	0.1435	0.1311	0.1188	0.0797	0.0930	0.0736									
24	1.6975	0.8108	0.4164	0.3616	0.2692	0.1984	0.1642	0.1183													
32	1.6532	0.5386	0.5017	0.4809	0.3065	0.2046	0.1569	0.1218													
48	1.2859	0.9180	0.6206	0.5168	0.3614	0.2054	0.1864	0.1202													
64	1.1932	1.0692	0.6923	0.4986	0.3735	0.2640	0.1389	0.1305													
96	2.0964	1.1599	0.8280	0.5209	0.3500	0.1960															
128	1.6882	0.7629	0.4679	0.4086	0.2101	0.1713															
192	2.6528	1.4259	0.9837	0.5711																	
256	(0.0380)	(0.0380)	(0.0380)	(0.0372)																	
384	0.0385	0.0392																			
512	(0.0374)	(0.0380)																			
768	(0.0374)																				
1024	(0.0376)																				

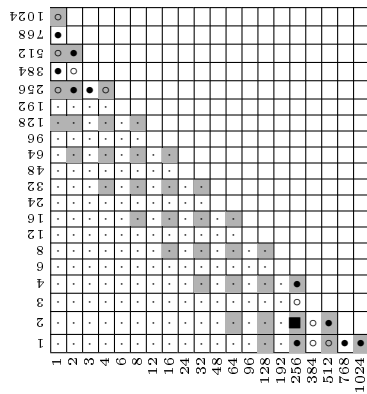


Table290. Cannon Kepler: Normal L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	119.258	59.491	39.720	29.848	19.963	15.025	10.086	7.611	5.142	3.868	2.708	1.999	(1.715)	(1.715)	(1.714)	(1.707)*	(1.722)	(1.747)	(1.789)	(1.761)
2	96.994	48.430	32.319	24.260	18.204	12.176	8.131	6.130	4.284	2.924	2.303	(1.728)	(1.717)	(1.718)	(1.726)	(1.720)	1.798	(1.766)		
3	80.305	40.088	26.752	20.681	13.411	10.076	6.913	4.244	3.702	(1.784)	2.275	(1.728)	(1.732)	(1.732)	(1.743)	(1.739)				
4	71.947	35.928	23.988	17.930	12.015	9.018	5.178	3.236	3.288	(1.736)	2.327	1.809	(1.734)	(1.734)	1.803	(1.775)				
6	63.692	31.757	21.185	15.900	10.816	6.171	6.146	3.437	3.366	1.841	2.359	1.799	(1.784)	1.806						
8	59.416	29.677	19.796	14.857	8.110	4.684	6.026	3.470	3.433	1.866	2.357	1.841	1.815	(1.781)						
12	55.256	27.590	20.240	10.686	13.768	8.599	5.442	3.553	3.540	1.866	2.357	1.849								
16	53.093	26.557	20.728	7.572	16.055	10.168	5.982	3.606	3.547	1.895	2.593	1.849								
24	51.299	40.127	33.673	23.068	13.735	9.163	7.209	3.636	3.550	1.949										
32	50.200	49.065	35.011	25.990	16.149	10.589	6.242	3.697	3.575	1.975										
48	104.528	51.670	29.288	23.459	18.473	10.231	6.200	3.800												
64	119.035	59.536	32.884	26.982	18.080	10.618	5.880	3.787												
96	147.640	58.763	39.194	25.792	18.971	9.264														
128	169.286	80.321	34.380	26.728	15.802	10.736														
192	139.787	68.070	33.806	22.598																
256	142.013	98.123	33.078	27.148																
384	128.480	55.388																		
512	164.406	104.123																		
768	179.857																			
1024	219.887																			

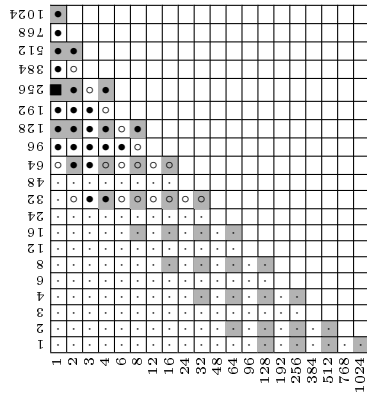


Table291. Cannon Kepler: Normal L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1 024
1	0.5470	0.2843	0.1974	0.1432	0.1082	0.0867	0.0647	0.0569	0.0427	0.0422	0.0351	(0.0282)	0.0206	0.0576	0.0571	0.0576	0.0566	0.0585	0.0579	0.0570
2	0.4332	0.2268	0.1584	0.1236	0.0894	0.0781	0.0548	0.0557	0.0439	0.0353	0.0328	(0.0276)	0.0204	0.0572	0.0564	0.0578	0.0577			
3	0.3605	0.1909	0.1339	0.1058	0.0772	0.0630	0.0501	0.0437	0.0389	0.0296	0.0333	(0.0280)	(0.0284)	0.0571	0.0569	0.0569				
4	0.3235	0.1721	0.1214	0.1052	0.0717	0.0700	0.0392	0.0433	0.0348	0.0285	0.0329	(0.0277)	0.0204	0.0570	0.0572	0.0567				
6	0.2873	0.1539	0.1096	0.0874	0.0667	0.0555	0.0397	0.0344	0.0351	0.0291	0.0327	(0.0276)	0.0289	0.0569						
8	0.2689	0.1590	0.1036	0.1033	0.0670	0.0539	0.0387	0.0340	0.0357	0.0300	0.0321	(0.0275)	0.0310	0.0572						
12	0.2616	0.1348	0.0943	0.0769	0.0468	0.0386	0.0388	0.0341	0.0337	0.0303	0.0321	(0.0280)								
16	0.2365	0.1679	0.0939	0.0760	0.0440	0.0388	0.0383	0.0347	0.0333	0.0333	0.0314									
24	0.2330	0.1206	0.0732	0.0498	0.0454	0.0371	0.0387	0.0336	0.0364	0.0338										
32	0.2070	0.1200	0.0622	0.0501	0.0437	0.0388	0.0383	0.0380	0.0363											
48	0.2132	0.0863	0.0665	0.0503	0.0445	0.0384	0.0382	0.0386												
64	0.1132	0.0696	0.0593	0.0479	0.0439	0.0378	0.0378													
96	0.1876	0.0847	0.0624	0.0498	0.0444	0.0400														
128	0.0572	0.0561	0.0564	0.0566	0.0564	0.0563														
192	0.0564	0.0572	0.0562	0.0583																
256	0.0568	0.0572	0.0572	0.0567																
384	0.0371	0.0582																		
512	0.0580	0.0570																		
768	0.0569																			
1 024	0.0370																			

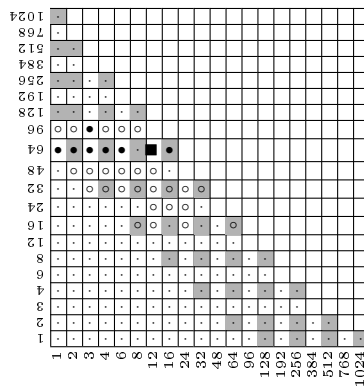


Table 292. Cannon Keper: Increased L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	4.0369	2.0531	1.3770	1.0320	0.6962	0.5221	0.3509	0.2651	0.1793	0.1361	0.1009	0.0813	0.0691	0.0517	0.0388	0.0246	0.0161	0.0091	0.0040	0.0011
2	3.2224	1.6276	1.0883	0.8181	0.5482	0.4127	0.2776	0.2098	0.1546	0.1166	0.0868	0.0689	0.0522	0.0384	0.0265	0.0166	0.0105	0.0061	0.0030	0.0008
3	2.6664	1.3476	0.8906	0.6767	0.4589	0.3419	0.2365	0.1545	0.1222	0.0708	0.0584	0.0416	0.0281	0.0194	0.0122	0.0070	0.0041	0.0024	0.0012	0.0003
4	2.3891	1.2041	0.8053	0.6058	0.4084	0.3055	0.1799	0.1222	0.1027	0.0670	0.0584	0.0416	0.0281	0.0194	0.0122	0.0070	0.0041	0.0024	0.0012	0.0003
6	2.1104	1.0628	0.7111	0.5353	0.3670	0.2120	0.1507	0.1028	0.1051	0.0707	0.0834	0.0684	0.0396	0.0482	0.0352	0.0226	0.0141	0.0082	0.0040	0.0015
8	1.9710	0.9222	0.6843	0.4909	0.2772	0.1767	0.1224	0.1044	0.1035	0.0718	0.0834	0.0684	0.0396	0.0482	0.0352	0.0226	0.0141	0.0082	0.0040	0.0015
12	1.8337	0.8220	0.5865	0.3431	0.2072	0.1381	0.1201	0.1084	0.0998	0.0695	0.0826	0.0689	0.0396	0.0482	0.0352	0.0226	0.0141	0.0082	0.0040	0.0015
16	1.7643	0.8272	0.4421	0.2852	0.2012	0.1389	0.1229	0.1086	0.1081	0.0698	0.0855	0.0785	0.0396	0.0482	0.0352	0.0226	0.0141	0.0082	0.0040	0.0015
24	1.6649	0.6002	0.3625	0.2588	0.2012	0.1389	0.1229	0.1086	0.1081	0.0698	0.0855	0.0785	0.0396	0.0482	0.0352	0.0226	0.0141	0.0082	0.0040	0.0015
32	1.6609	0.5078	0.3628	0.2617	0.2095	0.1384	0.1202	0.1095	0.0998	0.0743	0.0855	0.0785	0.0396	0.0482	0.0352	0.0226	0.0141	0.0082	0.0040	0.0015
48	1.1979	0.3246	0.3847	0.2655	0.1966	0.1353	0.1281	0.1095	0.0998	0.0743	0.0855	0.0785	0.0396	0.0482	0.0352	0.0226	0.0141	0.0082	0.0040	0.0015
64	0.9843	0.3784	0.4105	0.2768	0.1997	0.1403	0.1183	0.1078	0.0998	0.0743	0.0855	0.0785	0.0396	0.0482	0.0352	0.0226	0.0141	0.0082	0.0040	0.0015
96	1.4275	0.7567	0.4675	0.2923	0.2070	0.1305	0.1183	0.1078	0.0998	0.0743	0.0855	0.0785	0.0396	0.0482	0.0352	0.0226	0.0141	0.0082	0.0040	0.0015
128	1.0888	0.4829	0.3058	0.2311	0.1362	0.0975	0.0975	0.0975	0.0975	0.0975	0.0975	0.0975	0.0975	0.0975	0.0975	0.0975	0.0975	0.0975	0.0975	0.0975
192	2.3773	1.1665	0.6374	0.3480	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428
256	0.0406	0.0416	0.0416	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428
384	0.0404	0.0412	0.0412	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428
512	0.0400	0.0400	0.0400	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428
768	0.0400	0.0400	0.0400	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428
1024	0.0418	0.0418	0.0418	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428	0.0428

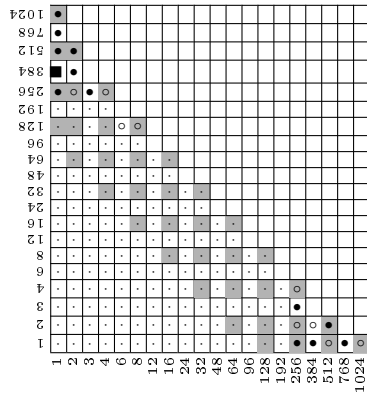


Table 293. Cannon Kepler: Increased L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	115.270	57.468	38.352	28.845	19.325	14.562	9.813	7.436	5.062	3.740	2.807	1.975	(1.690)	(1.698)*	(1.698)	(1.690)	(1.711)	(1.708)	1.791	(1.754)
2	84.089	46.992	31.402	23.601	18.791	11.889	7.978	6.030	4.120	3.976	2.722	(1.707)	(1.710)	(1.701)	(1.714)	(1.707)	(1.782)	(1.754)		
3	80.218	40.026	26.714	20.053	13.394	10.064	6.888	4.172	3.095	(1.710)	2.083	(1.715)	(1.707)	(1.721)	(1.711)	(1.780)	(1.782)	(1.754)		
4	71.960	35.921	23.971	17.933	12.015	9.020	5.174	3.149	2.380	(1.724)	1.997	(1.715)	(1.727)	(1.720)	1.786	(1.764)				
6	63.663	31.750	21.178	15.893	10.803	8.105	4.628	4.107	2.580	(1.724)	2.015	(1.731)	(1.770)	1.798						
8	59.478	29.670	19.788	14.850	10.105	8.119	4.628	3.248	2.545	(1.734)	2.045	(1.732)	1.805	(1.775)						
12	55.323	27.592	17.379	10.683	8.119	6.437	4.019	3.243	2.582	(1.734)	2.044	1.814								
16	53.185	26.553	15.935	9.139	6.540	4.918	3.057	2.557	2.579	(1.736)	2.310	1.786								
24	51.409	18.182	15.935	9.139	6.437	4.019	3.243	2.582	2.661	1.818										
32	50.212	18.652	20.627	8.900	6.071	4.271	3.243	2.584	2.681	1.787										
48	35.966	38.341	21.951	8.716	6.575	4.127	3.274	2.700												
64	27.011	68.161	15.372	8.756	7.043	4.383	3.354	2.681												
96	130.643	62.254	24.791	11.628	7.454	3.946														
128	147.079	80.507	32.445	15.206	7.113	4.548														
192	130.008	82.588	30.327	12.385																
256	177.023	92.593	24.959	16.060																
384	174.565	61.845																		
512	243.656	100.433																		
768	168.085																			
1024	287.348																			

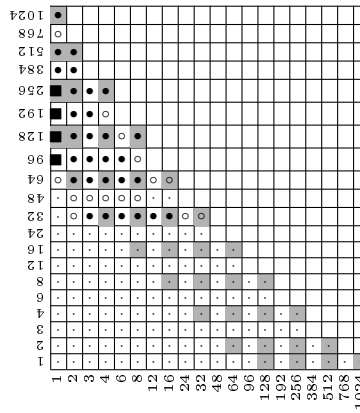


Table294. Cannon Kepler: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1.4375	0.7323	0.4969	0.3785	0.2612	0.2011	0.1425	0.1188	0.0826	0.0801	0.0627	(0.0421)	0.0438	0.0588	0.0577	0.0579	0.0588	0.0578	0.0580	0.0588
2	0.8293	0.4288	0.2937	0.2265	0.1585	0.1342	0.0900	0.0901	0.0687	0.0618	0.0454	(0.0435)	0.0437	0.0588	0.0586	0.0586	0.0588	0.0588	0.0588	0.0588
3	0.5282	0.2259	0.2244	0.1748	0.1248	0.0993	0.0747	0.0886	0.0476	(0.0428)	0.0468	(0.0436)	0.0437	0.0581	0.0591	0.0572	0.0588	0.0588	0.0588	0.0591
4	0.5288	0.2263	0.1591	0.1610	0.1080	0.1059	0.0734	0.0576	0.0469	0.0441	0.0468	(0.0418)	(0.0423)	0.0575	0.0591	0.0582	0.0588	0.0588	0.0588	0.0588
6	0.3817	0.2182	0.1428	0.1411	0.0997	0.0805	0.0515	0.0476	0.0474	0.0437	0.0467	(0.0435)	0.0440	0.0589	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
8	0.3308	0.1786	0.1613	0.1126	0.0663	0.0527	0.0520	0.0471	0.0458	(0.0426)	0.0459	(0.0489)	0.0443	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
16	0.3348	0.2094	0.1407	0.1108	0.0663	0.0547	0.0531	0.0466	0.0467	0.0448	0.0455	(0.0433)	0.0448	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
24	0.2852	0.1883	0.1197	0.0818	0.0644	0.0544	0.0529	0.0471	0.0469	0.0448	0.0459	0.0448	0.0448	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
32	0.3317	0.1708	0.1086	0.0808	0.0646	0.0569	0.0515	0.0477	0.0467	0.0448	0.0459	0.0448	0.0448	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
48	0.3335	0.1466	0.1115	0.0817	0.0664	0.0575	0.0513	0.0481	0.0485	0.0448	0.0455	0.0448	0.0448	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
64	0.1776	0.0982	0.0802	0.0845	0.0590	0.0589	0.0521	0.0468	0.0468	0.0448	0.0455	0.0448	0.0448	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588	0.0588
96	0.2815	0.1443	0.1082	0.0812	0.0648	0.0613														
128	0.0607	0.0588	0.0575	0.0596	0.0569	0.0580														
192	0.0583	0.0582	0.0569	0.0589																
256	0.0590	0.0571	0.0579	0.0570																
384	0.0585	0.0588																		
512	0.0590	0.0587																		
768	0.0597																			
1024	0.0592																			

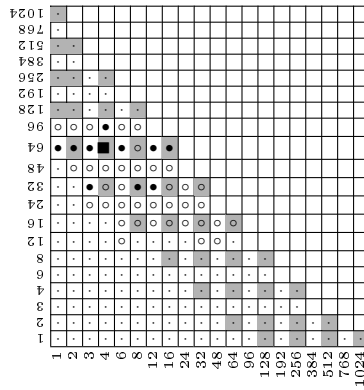


Table295. Cannon Kepler: Without L1, size 96×96, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	11.1373	5.5775	3.7117	2.8016	1.8771	1.4135	0.9459	0.7081	0.4761	0.3589	0.2452	0.2020	0.1348	0.0908	0.1294	0.0376	0.0378	0.0379	0.0370	0.0370	0.0370
2	6.3584	3.1939	2.1351	1.6053	1.0739	0.8071	0.5415	0.4079	0.2799	0.2017	0.1508	0.1288	0.1322	0.0964	0.1129	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378
3	4.7276	2.4012	1.6009	1.2043	0.8052	0.6060	0.4200	0.2792	0.2047	0.1348	0.1496	0.1293	0.1313	0.0829	0.1131	0.0378	0.0378	0.0378	0.0378	0.0378	0.0378
4	3.9950	2.0035	1.3880	1.0066	0.6719	0.5059	0.3169	0.2316	0.1613	0.1286	0.1457	0.1407	0.1328	0.1001	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376
6	3.2132	1.6102	1.0753	0.8084	0.6098	0.3573	0.2490	0.1610	0.1676	0.1291	0.1463	0.1207	0.1328	0.0890	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376
8	2.8248	1.4148	0.9447	0.7292	0.4592	0.2959	0.2037	0.1569	0.1567	0.1308	0.1486	0.1318	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376
12	2.4312	1.2177	1.0688	0.6941	0.3573	0.2315	0.2094	0.1562	0.1562	0.1304	0.1455	0.1389	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376
16	2.2372	1.1194	0.8347	0.4701	0.3854	0.2692	0.2371	0.1551	0.1551	0.1304	0.1455	0.1389	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376
24	2.0746	1.0214	0.7027	0.5028	0.4005	0.2634	0.2371	0.1551	0.1551	0.1304	0.1455	0.1389	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376
32	2.0066	0.9214	0.6759	0.5926	0.3981	0.2743	0.2371	0.1551	0.1551	0.1304	0.1455	0.1389	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376
48	2.4493	0.9302	0.9475	0.7033	0.5184	0.3781	0.2646	0.2276	0.1522	0.1522	0.1522	0.1522	0.1522	0.1522	0.1522	0.1522	0.1522	0.1522	0.1522	0.1522	0.1522
64	1.8211	0.9265	0.6712	0.4912	0.3732	0.2302	0.2014	0.1656													
96	1.8305	0.9265	0.6712	0.4912	0.3732	0.2302	0.2014	0.1656													
128	1.2848	0.6745	0.4545	0.3858	0.2500	0.1802															
192	1.9104	0.9109	0.6733	0.4848																	
256	0.0380	0.0377	0.0394	0.0399																	
384	0.0381	0.0370																			
512	0.0373	0.0376																			
768	0.0390																				
1024	0.0388																				

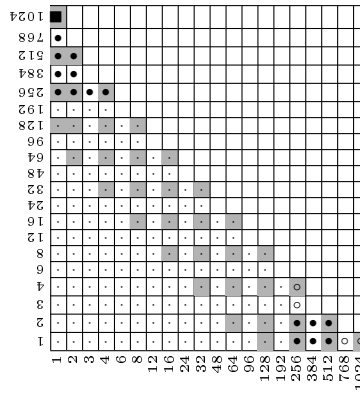


Table296. Cannon Keplar: Without L1, size 192×192, milliseconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1 024	
1	334.824	167.109	111.399	83.566	65.732	41.862	28.074	21.205	14.325	10.603	9.115	5.366	3.903	(3.166)	(3.233)	(3.173)	(3.210)	(3.201)	(3.186)		
2	191.161	95.583	63.735	47.815	31.882	23.944	16.036	12.160	8.263	5.368	4.124	(3.169)	(3.217)	(3.164)	(3.230)	(3.167)	(3.205)	(3.190)			
3	143.233	71.627	47.743	35.823	23.893	17.956	12.273	8.201	5.636	3.671	3.809	(3.224)	(3.172)	(3.229)	3.340	3.696					
4	119.387	59.695	39.813	29.860	19.912	14.957	9.230	6.198	4.217	(3.222)	3.468	(3.158)	(3.226)	(3.189)	3.761	(3.131)					
6	95.868	47.950	31.981	24.004	18.095	10.426	7.051	4.343	3.083	(3.222)	3.484	(3.228)	3.323	3.645							
8	84.171	42.095	28.075	21.059	13.583	7.882	5.725	3.941	3.083	(3.224)	3.574	(3.187)	3.640								
12	72.591	36.309	22.753	17.894	10.438	6.708	5.885	3.982	3.036	(3.234)	3.742	3.643									
16	66.847	33.445	24.565	13.437	10.805	7.581	5.846	3.994	4.000	(3.106)	4.115	(3.121)									
24	63.217	35.701	20.347	14.245	11.052	7.474	5.961	4.064	4.066	3.809											
32	60.916	29.066	19.863	14.208	10.925	7.574	5.854	3.987	4.654	(3.116)*											
48	72.137	32.759	19.823	14.219	10.910	7.489	5.943	4.745													
64	103.928	44.291	21.858	14.302	10.880	7.606	6.178	3.944													
96	141.059	68.605	34.855	14.256	10.991	6.888															
128	163.844	87.636	46.808	21.146		7.781															
192	163.844	87.636	46.808	21.146																	
256	190.608	94.914	45.263	29.320																	
384	200.829	93.364																			
512	214.929	108.843																			
768	219.727																				
1024	232.390																				

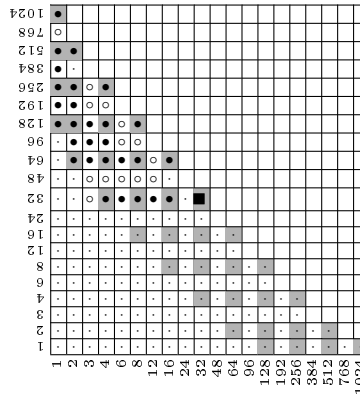


Table297. Cannon Kepler: Without L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024	
1	0.5511	0.2888	0.1997	0.1565	0.1122	0.0902	0.0679	0.0577	0.0442	0.0443	0.0390	(0.0315)	0.0328	0.0584	0.0580	0.0580	0.0557	0.0586	0.0587	0.0584	
2	0.4375	0.2289	0.1619	0.1274	0.0928	0.0814	0.0569	0.0580	0.0472	0.0388	0.0368	(0.0315)	0.0322	0.0583	0.0588	0.0588	0.0586	0.0570			
3	0.3840	0.1944	0.1372	0.1095	0.0798	0.0668	0.0521	0.0470	0.0434	0.0331	0.0378	(0.03017)	(0.0314)	0.0572	0.0566	0.0570					
4	0.3279	0.1764	0.1260	0.1079	0.0748	0.0737	0.0527	0.0471	0.0364	0.0288	0.0362	(0.0314)	0.0323	0.0590	0.0580	0.0587					
6	0.2506	0.1580	0.1135	0.0910	0.0693	0.0585	0.0468	0.0382	0.0387	0.0333	0.0365	0.0322	0.0320	0.0590	0.0580	0.0587					
8	0.2714	0.1628	0.1076	0.1071	0.0694	0.0583	0.0436	0.0388	0.0349	0.0339	0.0362	0.0322	0.0333	0.0598							
12	0.2549	0.1399	0.0984	0.802	0.0530	0.0422	0.0433	0.0375	0.0372	0.0323	0.0360	(0.0316)									
16	0.2700	0.1716	0.0981	0.794	0.0461	0.0426	0.0427	0.0442	0.0374	0.0354	0.0350	(0.0317)									
24	0.2368	0.1225	0.0751	0.544	0.0508	0.0427	0.0433	0.0390	0.0371	0.0355	0.0350	(0.0317)									
32	0.3016	0.1222	0.0672	0.640	0.0483	0.0410	0.0442	0.0444	0.0421	0.0354	0.0360	(0.0316)									
48	0.2175	0.0915	0.0752	0.640	0.0487	0.0422	0.0434	0.0408	0.0398	0.0352	0.0380	(0.0317)									
64	0.1172	0.0738	0.0638	0.616	0.0461	0.0414	0.0429	0.0408	0.0398	0.0352	0.0380	(0.0317)									
96	0.1832	0.0928	0.0687	0.645	0.0478	0.0468	0.0429	0.0408	0.0398	0.0352	0.0380	(0.0317)									
128	0.0897	0.0588	0.0585	0.681	0.0581	0.0582	0.0582	0.0582	0.0582	0.0582	0.0582	(0.0582)									
192	0.0890	0.0590	0.0587	0.698	0.0587	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	(0.0589)									
256	0.0800	0.0594	0.0587	0.688	0.0587	0.0589	0.0589	0.0589	0.0589	0.0589	0.0589	(0.0589)									
384	0.0586	0.0582																			
512	0.0804	0.0600																			
768	0.0586																				
1024	0.0801																				

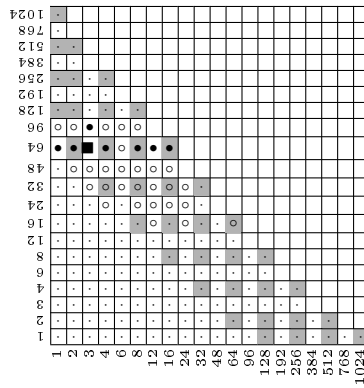


Table298. CannonModified Kepler: Normal L1, size 96×96, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	4.0317	2.0533	1.3780	1.0321	0.6961	0.4521	0.3511	0.2649	0.1794	0.1360	0.1012	0.0815	0.0713	0.0518	0.0350	0.0266	0.0186	0.0137	0.0095	0.0068
2	3.2277	1.6280	1.0883	0.8184	0.5479	0.4126	0.2777	0.2099	0.1577	0.1216	0.0967	0.0789	0.0705	0.0521	0.0382	0.0290	0.0206	0.0151	0.0109	0.0080
3	2.6676	1.3456	0.8906	0.6769	0.4536	0.3420	0.2366	0.1667	0.1304	0.0759	0.0895	0.0711	0.0684	0.0494	0.0363	0.0271	0.0191	0.0141	0.0103	0.0076
4	2.3889	1.2038	0.8055	0.6058	0.4063	0.3085	0.1799	0.1230	0.1158	0.0759	0.0879	0.0715	0.0686	0.0552	0.0386	0.0292	0.0211	0.0156	0.0114	0.0084
6	2.1105	1.0616	0.7112	0.5351	0.3667	0.2118	0.1588	0.1129	0.1191	0.0728	0.0892	0.0685	0.0695	0.0481	0.0352	0.0260	0.0181	0.0131	0.0095	0.0071
8	1.9720	0.9920	0.6642	0.4999	0.2805	0.1768	0.1307	0.1159	0.1083	0.0718	0.0850	0.0758	0.0686	0.0472	0.0343	0.0251	0.0172	0.0122	0.0086	0.0063
12	1.8340	0.9221	0.5848	0.4331	0.2138	0.1566	0.1374	0.1184	0.1129	0.0745	0.0988	0.0701								
16	1.7652	0.8872	0.4422	0.2687	0.2365	0.1889	0.1435	0.1311	0.1188	0.0797	0.0930	0.0736								
24	1.6675	0.8108	0.4164	0.3616	0.2692	0.1984	0.1642	0.1183												
32	1.6332	0.5386	0.5017	0.4809	0.3065	0.2046	0.1569	0.1218												
48	1.2859	0.9180	0.6206	0.5168	0.3614	0.2054	0.1864	0.1202												
64	1.1932	1.0692	0.6923	0.4986	0.3735	0.2640	0.1389	0.1305												
96	2.0964	1.1599	0.8280	0.5209	0.3500	0.1960														
128	1.6882	0.7629	0.4679	0.4086	0.2101	0.1713														
192	2.6328	1.4259	0.9837	0.5711																
256	0.0380	0.0380	0.0380	0.0381	0.0372															
384	0.0385	0.0392																		
512	0.0374	0.0380																		
768	0.0374	0.0374																		
1024	0.0376	0.0376																		

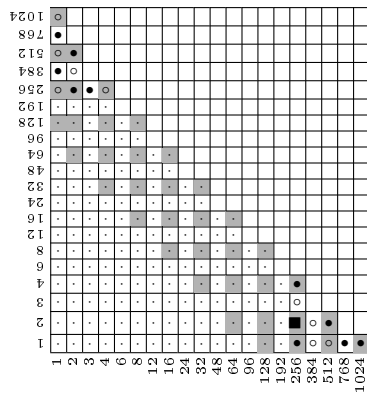


Table299. CannonModified Kepler: Normal L1, size 192×192, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	119.258	59.491	39.720	29.848	19.963	15.025	10.086	7.611	5.142	3.868	2.708	1.999	1.715	1.715	1.714	1.707*	1.722	1.747	1.789	1.841
2	96.994	48.430	32.319	24.260	18.204	12.176	8.131	6.130	4.284	2.924	2.303	1.728	1.717	1.718	1.726	1.720	1.798	1.765		
3	80.305	40.088	26.752	20.681	13.411	10.076	6.913	4.244	3.702	1.784	2.275	1.809	1.732	1.732	1.743	1.799				
4	71.947	35.928	23.988	17.930	12.015	9.018	5.178	3.236	3.288	1.841	2.327	1.841	1.745	1.734	1.803	1.775				
6	63.602	31.757	21.185	15.900	10.816	6.171	6.146	3.437	3.366	1.841	2.357	1.841	1.784	1.806						
8	59.416	29.677	19.796	14.857	8.110	4.684	6.026	3.470	3.433	1.866	2.357	1.841	1.815	1.781						
12	55.256	27.500	20.240	10.686	13.768	8.599	5.442	3.553	3.540	1.866	2.357	1.841								
16	53.093	26.557	20.728	7.572	16.055	10.168	5.982	3.606	3.547	1.895	2.593	1.849								
24	50.200	49.065	35.011	25.990	13.735	9.163	7.209	3.636	3.550	1.949										
32	50.200	49.065	35.011	25.990	13.735	9.163	7.209	3.636	3.550	1.949										
48	104.528	51.670	29.288	23.459	18.473	10.231	6.202	3.697	3.575	1.975										
64	119.035	59.536	32.884	26.982	18.080	10.618	5.880	3.787												
96	147.640	58.763	39.194	25.792	18.971	9.264														
128	169.286	80.929	34.380	26.728	15.802	10.736														
192	139.787	68.070	33.806	22.598																
256	142.013	98.128	33.078	27.148																
384	128.480	55.388																		
512	164.406	104.128																		
768	179.857																			
1024	219.887																			

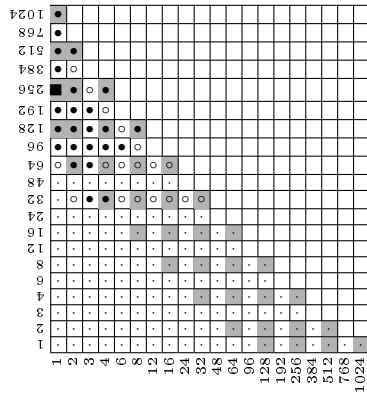


Table300. CannonModified Kepler: Normal L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1 024
1	0.5470	0.2843	0.1974	0.1432	0.1082	0.0867	0.0647	0.0569	0.0427	0.0422	0.0351	(0.0282)	0.0206	0.0576	0.0571	0.0576	0.0566	0.0585	0.0579	0.0570
2	0.4332	0.2268	0.1584	0.1236	0.0894	0.0781	0.0548	0.0557	0.0439	0.0353	0.0328	(0.0276)	0.0204	0.0572	0.0564	0.0578	0.0577			
3	0.3605	0.1909	0.1339	0.1068	0.0772	0.0630	0.0501	0.0437	0.0389	0.0296	0.0333	(0.0250)	(0.0284)	0.0571	0.0569	0.0566				
4	0.3235	0.1721	0.1214	0.1052	0.0717	0.0700	0.0302	0.0433	0.0348	0.0285	0.0329	(0.0277)	0.0204	0.0570	0.0572	0.0567				
6	0.2873	0.1539	0.1096	0.0874	0.0667	0.0555	0.0307	0.0344	0.0351	0.0291	0.0327	(0.0276)	0.0289	0.0569						
8	0.2689	0.1590	0.1036	0.1033	0.0670	0.0539	0.0387	0.0340	0.0357	0.0300	0.0327	(0.0275)	0.0310	0.0572						
12	0.2616	0.1348	0.0943	0.0769	0.0468	0.0386	0.0388	0.0341	0.0337	0.0303	0.0321	(0.0280)								
16	0.2365	0.1679	0.0939	0.0760	0.0440	0.0388	0.0383	0.0347	0.0333	0.0333	0.0346									
24	0.2330	0.1206	0.0732	0.0498	0.0454	0.0371	0.0387	0.0336	0.0364	0.0338										
32	0.2070	0.1200	0.0622	0.0501	0.0437	0.0388	0.0383	0.0380	0.0363											
48	0.2132	0.0863	0.0665	0.0503	0.0445	0.0384	0.0382	0.0380												
64	0.1132	0.0898	0.0593	0.0479	0.0439	0.0378	0.0378													
96	0.1876	0.0847	0.0624	0.0498	0.0444	0.0400														
128	0.0572	0.0561	0.0564	0.0566	0.0564	0.0563														
192	0.0564	0.0572	0.0562	0.0583																
256	0.0568	0.0572	0.0572	0.0567																
384	0.0571	0.0582																		
512	0.0580	0.0570																		
768	0.0569																			
1 024	0.0370																			

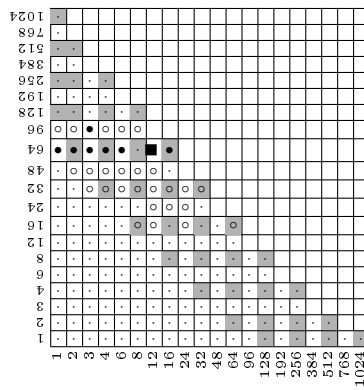


Table301. CannonModified Kepler: Increased L1, size 96×96, seconds.

Revs	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	4.0369	2.0531	1.3770	1.0320	0.6962	0.5221	0.3509	0.2651	0.1793	0.1361	0.1009	0.0813	0.0691	0.0517	0.0388	0.0246	0.0161	0.0091	0.0040	0.0011
2	3.2224	1.6276	1.0883	0.8181	0.5482	0.4127	0.2776	0.2098	0.1546	0.1161	0.0868	0.0689	0.0522	0.0384	0.0268	0.0176	0.0111	0.0061	0.0030	0.0007
3	2.6664	1.3476	0.8906	0.6767	0.4589	0.3419	0.2365	0.1545	0.1222	0.0708	0.0584	0.0416	0.0294	0.0192	0.0122	0.0070	0.0041	0.0021	0.0011	0.0003
4	2.3891	1.2041	0.8053	0.6058	0.4084	0.3055	0.1799	0.1222	0.1027	0.0670	0.0584	0.0416	0.0294	0.0192	0.0122	0.0070	0.0041	0.0021	0.0011	0.0003
6	2.1104	1.0628	0.7111	0.5353	0.3670	0.2120	0.1507	0.1028	0.1035	0.0713	0.0684	0.0584	0.0396	0.0282	0.0182	0.0111	0.0061	0.0030	0.0011	0.0003
8	1.9710	0.9222	0.6843	0.4909	0.2772	0.1767	0.1224	0.1034	0.0998	0.0695	0.0689	0.0584	0.0396	0.0282	0.0182	0.0111	0.0061	0.0030	0.0011	0.0003
12	1.8337	0.8220	0.5865	0.3431	0.2072	0.1381	0.1201	0.1084	0.0988	0.0695	0.0689	0.0584	0.0396	0.0282	0.0182	0.0111	0.0061	0.0030	0.0011	0.0003
16	1.7643	0.8872	0.4421	0.2852	0.2012	0.1399	0.1229	0.1086	0.1008	0.0698	0.0689	0.0584	0.0396	0.0282	0.0182	0.0111	0.0061	0.0030	0.0011	0.0003
24	1.6649	0.6002	0.3625	0.2588	0.2012	0.1399	0.1229	0.1086	0.1008	0.0698	0.0689	0.0584	0.0396	0.0282	0.0182	0.0111	0.0061	0.0030	0.0011	0.0003
32	1.6609	0.5078	0.3628	0.2617	0.2025	0.1384	0.1202	0.1095	0.0998	0.0743										
48	1.1979	0.3246	0.3847	0.2655	0.1966	0.1353	0.1281	0.1095												
64	0.9843	0.3784	0.4105	0.2768	0.1997	0.1403	0.1183	0.1078												
96	1.4275	0.7567	0.4675	0.2923	0.2070	0.1305														
128	1.0888	0.4829	0.3058	0.2311	0.1362	0.0975														
192	2.3773	1.1665	0.6374	0.3480																
256	0.0406	0.0416	0.0428																	
384	0.0404	0.0412																		
512	0.0400	0.0400																		
768	0.0400																			
1024	0.0418																			

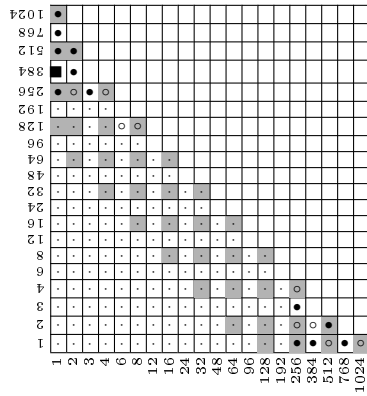


Table302. CannonModified Kepler: Increased L1, size 192×192, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	115.270	57.468	38.352	28.845	19.325	14.562	9.813	7.436	5.062	3.740	2.807	1.975	(1.690)	(1.698)*	(1.698)	(1.690)	(1.711)	(1.708)	1.791	(1.754)
2	84.089	46.992	31.402	23.601	18.791	11.889	7.978	6.030	4.120	3.976	2.722	(1.707)	(1.710)	(1.701)	(1.714)	(1.707)	(1.782)	(1.754)		
3	80.218	40.026	26.714	20.053	13.394	10.064	6.888	4.172	3.095	(1.710)	2.083	(1.715)	(1.707)	(1.721)	(1.711)	(1.780)	(1.782)	(1.754)		
4	71.960	35.921	23.971	17.933	12.015	9.020	5.174	3.149	2.380	(1.724)	1.997	(1.715)	(1.727)	(1.720)	1.786	(1.764)				
6	63.663	31.750	21.178	15.893	10.803	8.105	4.628	4.107	2.580	(1.724)	2.015	(1.731)	(1.770)	1.798						
8	59.478	29.670	19.788	14.850	10.450	8.105	4.628	3.248	2.545	(1.724)	2.045	(1.732)	1.805	(1.770)						
12	55.323	27.592	17.379	10.683	8.119	3.819	3.176	2.567	2.563	(1.734)	2.144	1.814								
16	53.185	26.553	15.935	9.139	6.349	3.918	3.057	2.557	2.579	(1.736)	2.310	1.786								
24	51.409	18.182	15.935	9.139	6.349	3.918	3.057	2.557	2.579	(1.736)	2.310	1.786								
32	50.212	18.652	20.627	8.900	6.071	4.271	3.243	2.584	2.681	1.787										
48	35.966	38.341	21.951	8.716	6.575	4.127	3.274	2.700												
64	27.011	68.161	15.372	8.756	7.043	4.333	3.354	2.681												
96	130.643	62.254	24.791	11.628	7.454	3.946														
128	147.079	80.507	32.445	15.206	7.113	4.545														
192	130.008	82.588	30.327	12.385																
256	174.565	61.845																		
384	174.565	61.845																		
512	243.656	100.433																		
768	168.085																			
1024	287.348																			

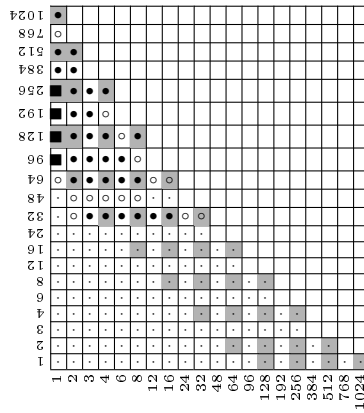


Table303. CannonModified Kepler: Increased L1, size 6144×6144, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	1.4375	0.7323	0.4969	0.3785	0.2612	0.2011	0.1425	0.1188	0.0826	0.0801	0.0627	(0.0421)	0.0438	0.0588	0.0577	0.0579	0.0588	0.0575	0.0580	0.0588
2	0.8293	0.4288	0.2937	0.2265	0.1585	0.1342	0.0900	0.0901	0.0687	0.0618	0.0454	(0.0435)	0.0437	0.0588	0.0586	0.0586	0.0588	0.0588	0.0588	0.0588
3	0.5282	0.2259	0.2244	0.1748	0.1248	0.0993	0.0747	0.0586	0.0476	(0.0428)	0.0468	(0.0436)	0.0437	0.0581	0.0591	0.0572				
4	0.4286	0.2263	0.1591	0.1248	0.0997	0.0805	0.0515	0.0476	0.0474	0.0441	0.0467	(0.0418)	(0.0423)	0.0575	0.0591	0.0582				
6	0.3817	0.1782	0.1428	0.1411	0.0957	0.0799	0.0533	0.0471	0.0458	(0.0426)	0.0465	(0.0435)	0.0440	0.0589						
8	0.3308	0.1786	0.1613	0.1126	0.0663	0.0527	0.0520	0.0471	0.0453	(0.0426)	0.0459	(0.0429)	0.0443	0.0588						
16	0.3348	0.2094	0.1407	0.1108	0.0663	0.0547	0.0531	0.0466	0.0467	0.0448	0.0455	(0.0433)								
24	0.2852	0.1883	0.1197	0.0818	0.0644	0.0544	0.0529	0.0471	0.0469	0.0448										
32	0.3317	0.1798	0.1086	0.0808	0.0646	0.0569	0.0515	0.0477	0.0467											
48	0.3335	0.1466	0.1115	0.0817	0.0664	0.0575	0.0513	0.0481	0.0485											
64	0.1776	0.0982	0.0802	0.0845	0.0590	0.0589	0.0521	0.0468												
96	0.2815	0.1443	0.1082	0.0812	0.0648	0.0613														
128	0.0607	0.0588	0.0575	0.0596	0.0569	0.0580														
192	0.0583	0.0582	0.0569	0.0589																
256	0.0590	0.0571	0.0579	0.0570																
384	0.0585	0.0588																		
512	0.0590	0.0587																		
768	0.0597																			
1024	0.0592																			

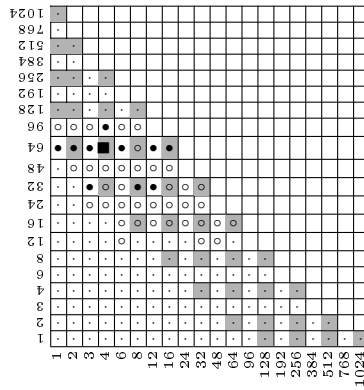


Table304. CannonModified Kepler: Without L1, size 96×96, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1024
1	11.1373	5.5775	3.7117	2.8016	1.8771	1.4135	0.9459	0.7081	0.4761	0.3589	0.2452	0.2020	0.1348	0.0908	0.1294	0.0376	0.0378	0.0379	0.0370	0.0369
2	6.3884	3.1939	2.1361	1.6063	1.0739	0.8071	0.5415	0.4079	0.2799	0.2017	0.1508	0.1288	0.1322	0.0964	0.1129	0.0378	0.0378	0.0379	0.0370	0.0369
3	4.7276	2.4012	1.6909	1.2043	0.8052	0.6060	0.4200	0.2792	0.2047	0.1348	0.1496	0.1293	0.1313	0.0829	0.1131	0.0378	0.0378	0.0379	0.0370	0.0369
4	3.9950	2.0035	1.3880	1.0066	0.6719	0.5059	0.3169	0.2316	0.1613	0.1286	0.1457	0.1407	0.1328	0.1001	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
6	3.2132	1.6102	1.0753	0.8084	0.6098	0.3573	0.2490	0.1610	0.1676	0.1291	0.1463	0.1207	0.1328	0.0890	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
8	2.8248	1.4148	0.9447	0.7292	0.4592	0.2959	0.2037	0.1569	0.1567	0.1308	0.1486	0.1318	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
12	2.4312	1.2177	1.0688	0.6941	0.3573	0.2315	0.2094	0.1562	0.1562	0.1320	0.1482	0.1303	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
16	2.2372	1.1194	0.8347	0.4701	0.3854	0.2692	0.2371	0.1551	0.1551	0.1320	0.1455	0.1389	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
24	2.0066	0.9214	0.6759	0.5028	0.4005	0.2634	0.2273	0.1588	0.1588	0.1320	0.1455	0.1389	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
32	2.0066	0.9214	0.6759	0.5028	0.4005	0.2634	0.2273	0.1588	0.1588	0.1320	0.1455	0.1389	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
48	2.4493	0.9302	0.7033	0.5184	0.3781	0.2646	0.2273	0.1588	0.1588	0.1320	0.1455	0.1389	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
64	1.8211	0.9475	0.7033	0.5184	0.3781	0.2646	0.2273	0.1588	0.1588	0.1320	0.1455	0.1389	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
96	1.8305	0.9265	0.6712	0.4912	0.3732	0.2302	0.2014	0.1656	0.1656	0.1320	0.1455	0.1389	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
128	1.2848	0.8745	0.4545	0.3858	0.2500	0.1802	0.2014	0.1656	0.1656	0.1320	0.1455	0.1389	0.1304	0.0914	0.1304	0.0376	0.0376	0.0376	0.0376	0.0376
192	1.9104	0.9109	0.6733	0.4848	0.0394	0.0399	0.0394	0.0399	0.0394	0.0399	0.0394	0.0399	0.0394	0.0399	0.0394	0.0399	0.0394	0.0399	0.0394	0.0399
256	0.0380	0.0380	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377	0.0377
384	0.0381	0.0381	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370	0.0370
512	0.0373	0.0373	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376	0.0376
768	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390	0.0390
1024	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388	0.0388

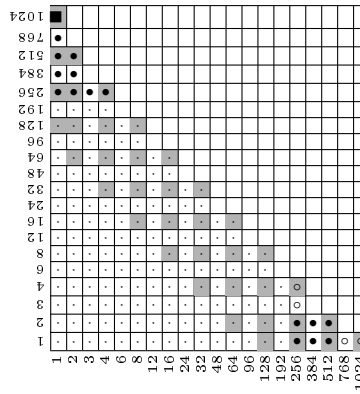


Table305. CannonModified Kepler: Without L1, size 192×192, seconds.

Rows	1	2	3	4	6	8	12	16	24	32	48	64	96	128	192	256	384	512	768	1 024	
1	334.824	167.109	111.399	83.566	65.732	41.862	28.074	21.205	14.325	10.603	9.115	5.366	3.903	(3.166)	(3.233)	(3.173)	(3.210)	(3.201)	(3.186)		
2	191.161	95.583	63.235	47.815	31.882	23.944	16.036	12.160	8.263	5.368	4.124	(3.169)	(3.217)	(3.164)	(3.230)	(3.167)	(3.225)	(3.190)	(3.180)		
3	143.233	71.627	47.743	35.823	23.893	17.956	12.273	8.201	5.636	3.671	3.809	(3.224)	(3.172)	(3.229)	3.340	3.696					
4	119.387	59.695	39.813	29.860	19.912	14.957	9.230	6.198	4.343	(3.165)	3.468	(3.158)	(3.226)	(3.189)	3.761	(3.131)					
6	95.868	47.950	31.981	24.004	18.095	10.426	7.051	4.343	3.983	(3.222)	3.484	(3.228)	3.323	3.645							
8	84.171	42.095	28.075	21.059	13.583	7.882	5.725	3.941	3.983	(3.164)	3.574	(3.187)	3.640								
12	72.591	36.309	22.753	17.894	10.438	6.708	5.885	3.982	3.936	(3.234)	3.742	3.643									
16	66.847	33.445	24.565	13.437	10.805	7.581	5.846	3.994	4.000	(3.166)	4.115	(3.121)									
24	63.217	35.701	20.347	14.245	11.052	7.474	5.961	4.064	4.066	(3.899)											
32	60.916	29.966	19.863	14.268	10.925	7.574	5.854	3.987	4.654	(3.116)*											
48	72.137	32.759	19.823	14.219	10.910	7.489	5.943	4.745													
64	103.928	44.291	21.858	14.302	10.880	7.606	6.178	3.944													
96	141.059	68.605	34.855	14.256	10.991	6.888															
128	163.844	87.636	46.808	21.146		7.781															
192	183.844	87.636	46.808	21.146																	
256	190.608	94.914	45.263	29.320																	
384	200.829	93.364																			
512	214.929	108.848																			
768	219.727																				
1024	232.390																				

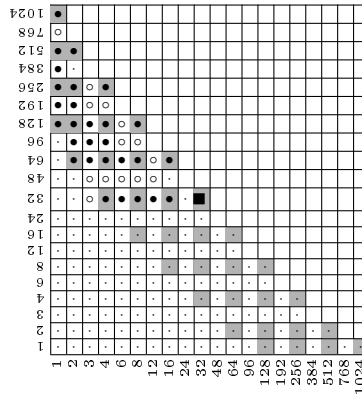


Table306. CannonModified Kepler: Without L1, size 6144×6144, seconds.