DRAM

The sum in mb is the total amout of MB the program loads for arrays before it ends
sum in mb 1608526.01

Speed coulumn are the speed result using the stream benchmark
Predicted time is sum in MB divided by speed.
Measured time is the the result given by running the program.
Speed res. Are calculated by taking “sum in MB” divided by Total time

1 Data generation per analysing

DRAM			Measured times			
Cores	Speed	Predicted time	Total time	Iteration time	Analyze time	Speed Res.
1	11038	145.73	126.495443	108.5283	17.967143	12716.1
2	21202	75.87	70.453265	60.958203	9.495062	22831.1
3	34326	46.86	50.888356	44.291248	6.597108	31608.9
4	43983	36.57	39.172995	34.190475	4.982519	41062.1
5	48136	33.42	33.334292	29.287754	4.046538	48254.4
6	50571	31.81	28.612769	25.068876	3.543893	56217.1
7	52636	30.56	25.464749	22.403076	3.061673	63166.8
8	55609	28.93	23.230449	20.444312	2.786137	69242.1
9	58007	27.73	20.825459	18.23416	2.591299	77238.4
10	61089	26.33	18.900356	16.496499	2.403857	85105.6
11	61309	26.24	17.623348	15.369932	2.253416	91272.4
12	63383	25.38	17.011088	14.794151	2.216938	94557.5
13	64146	25.08	16.402939	14.190886	2.212053	98063.3
14	64456	24.96	15.21374	13.093969	2.119771	105728.5
15	64806	24.82	14.462327	12.400434	2.061893	111221.8
16	65477	24.57	13.537663	11.525405	2.012258	118818.6

2 Data generation per analysing
sum in mb 1009672.412

DRAM			Measured times			
Cores	Speed	Predicted time	Total time	Iteration time	Analyze time	Speed Res.
1	11038	91.4724054778	116.232133	107.272695	8.959438	8686.689176
2	21202	47.6215645535	65.602085	60.821311	4.780774	15390.85856
3	34326	29.4142169686	47.336475	44.061944	3.274532	21329.69157
4	43983	22.955969617	37.202629	34.67974	2.522889	27139.81347
5	48136	20.9754115769	31.334656	29.243609	2.091047	32222.22742
6	50571	19.9654428756	27.193339	25.428052	1.765287	37129.40186
7	52636	19.1821645198	23.525786	21.969662	1.556123	42917.6909
8	55609	18.1566367254	21.8348	20.389512	1.445288	46241.43164
9	58007	17.4060442992	19.635401	18.294232	1.341169	51421.02327
10	61089	16.5278922828	17.855962	16.604906	1.251056	56545.39429
11	61309	16.4685839218	17.02849	15.832236	1.196254	59293.1265
12	63383	15.9297037323	16.283453	15.096694	1.186759	62006.03838
13	64146	15.7402240461	15.287101	14.119734	1.167367	66047.34355
14	64456	15.664521715	14.510263	13.37567	1.134593	69583.32951
15	64806	15.5799217922	13.424414	12.333831	1.090583	75211.65629
16	65477	15.4202607276	12.640738	11.54493	1.095808	79874.48293

n	50000
dwp_size	187788
nodes	325729
crs_row_ptr	1497134
bytes	8

(nodes+n*(dwp_size+crs_row_ptr+nodes))*bytes*2*0.000001

sum in mb	1608526.01