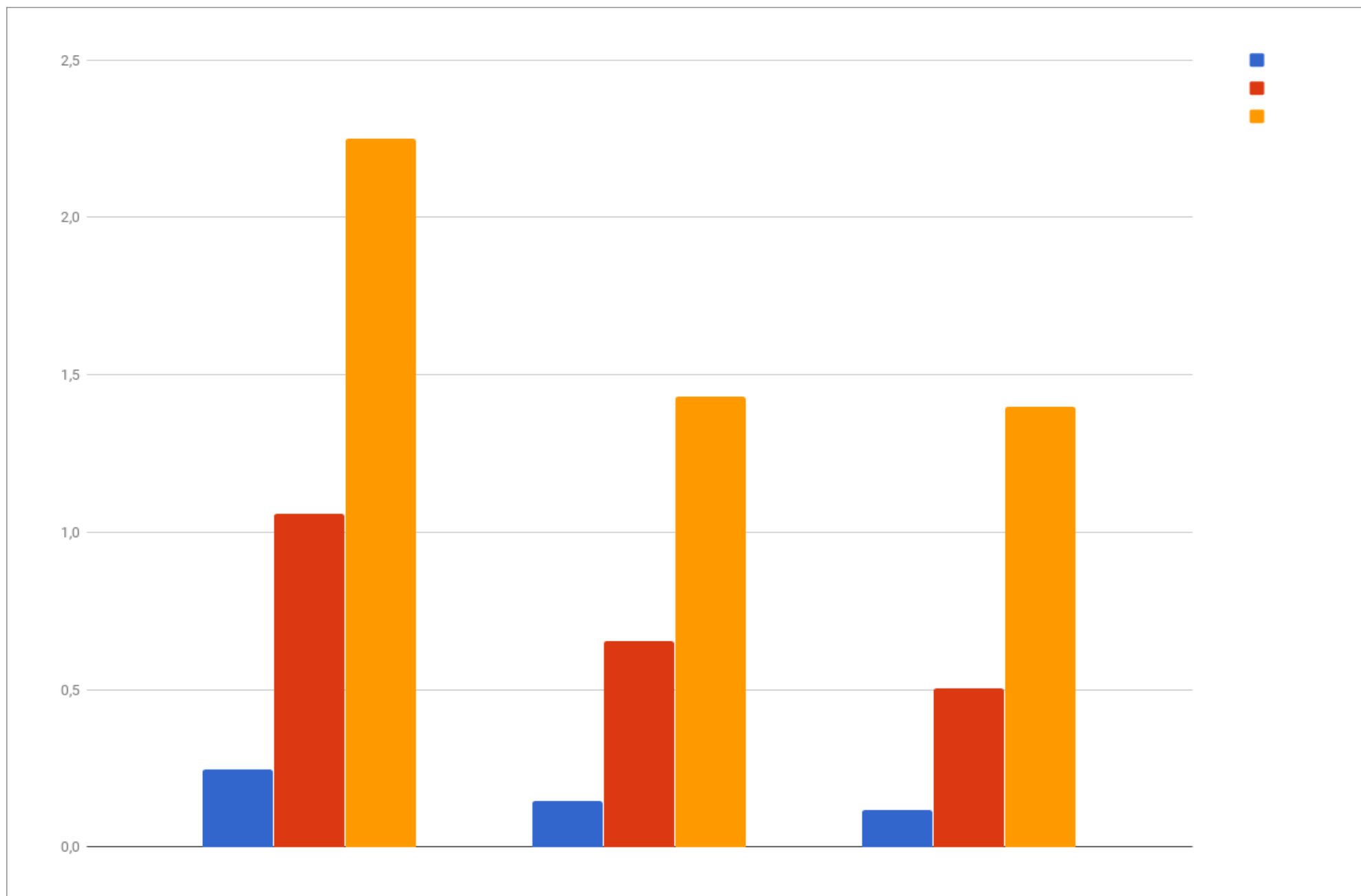


block of thread size of instance										
pkg_v1		Duration_session[ns]	Duration kernel[ns]	Duration kernel[s]	Przyspieszenie względem pierwszego tzn. blok 8	GFlops	Invocations	Importance(% of total gpu compute time spent executing instances of this kernel)	Regs per thread	Shared memory per block (bytes)
8	128	487943953	108779809	0,108779809		0,039	257	100	20	0
	256	1254956086	877784878	0,877784878		0,038	1025			
	512	7586547298	7081727150	7,08172715		0,038	4097			
	1024	57792056013	56599578490	56,59957849		0,038	16385			
16	128	365631690	26872393	0,026872393	4,048	0,156	65	100	20	0
	256	553584944	212703919	0,212703919	4,127	0,158	257			
	512	2237548243	1736920857	1,736920857	4,077	0,155	1025			
	1024	14677296592	13872023713	13,87202371	4,080	0,155	4097			
32	128	337599183	7165527	0,007165527	15,181	0,585	17	100	20	0
	256	421285421	54629386	0,054629386	16,068	0,614	65			
	512	851258551	439626485	0,439626485	16,109	0,611	257			
	1024	4170744653	3502960970	3,50296097	16,158	0,613	1025			
pkg_v3		Duration_session[ns]	Duration kernel[ns]	Duration kernel[s]			Invocations	Importance(% of total gpu compute time spent executing instances of this kernel)	Regs per thread	Shared memory per block (bytes)
8	128	326728348	2745209	0,002745209		1,528	1	100	21	512
	256	375496931	21843765	0,021843765		1,536	1			
	512	633419032	174434808	0,174434808		1,539	1			
	1024	2004040299	1394432093	1,394432093		1,540	1			
16	128	325761151	1596649	0,001596649	1,719	2,627	1	100	21	2048
	256	366315170	12306923	0,012306923	1,775	2,726	1			
	512	502665658	98290959	0,098290959	1,775	2,731	1			
	1024	1434445617	785865594	0,785865594	1,774	2,733	1			
32	128	345834226	1558373	0,001558373	1,762	2,691	1	100	21	8192
	256	346824889	12430719	0,012430719	1,757	2,699	1			
	512	510218074	99302246	0,099302246	1,757	2,703	1			
	1024	1405981349	796041955	0,796041955	1,752	2,698	1			
pkg_v5		Duration_session[ns]	Duration kernel[ns]	Duration kernel[s]			Invocations	Importance(% of total gpu compute time spent executing instances of this kernel)	Regs per thread	Shared memory per block (bytes)
8	128	330829229	2262595	0,002262595		1,854	1	100	28	2048
	256	371434021	18039812	0,018039812		1,860	1			
	512	552871599	144190283	0,144190283		1,862	1			
	1024	1804716612	1152926423	1,152926423		1,863	1			
16	128	344987768	2387242	0,002387242	0,948	1,757	1	100	28	8192
	256	359567402	14883145	0,014883145	1,212	2,255	1			
	512	545523118	109803152	0,109803152	1,313	2,445	1			
	1024	1556357263	560490593	0,560490593	2,057	3,831	1			
32	128	351026031	2552050	0,00255205	0,887	1,644	1	100	28	32768
	256	428906525	20361976	0,020361976	0,886	1,648	1			
	512	567194395	162746713	0,162746713	0,886	1,649	1			
	1024	1928514868	1301343579	1,301343579	0,886	1,650	1			

pkg_v1		the total number of kernel statically allocated number of surface and number of surface and global store transactions per request and the percentage of time ratio of the average number of single-precision average number of global memory to average number of global memory store transactions per request and the percentage of total gpu computer time spent executing instances of this kernel																				miara stopnia łaczenia dostępu do pamięci globalnej		zajętość multiprocessora teoretyczna	zajętość multiprocessora			
rozmiar bloku węzłów	rozmiar instancji	invocations	regs	static smem	global load transaction	global store transactions	multiprocessor activity	achieved occupancy	FP instructions/single	global load transactions per request	global store transactions per request	session	kernel	importance	kernel time[s]	przyspieszenie	prędkość GFlops	CGMA										
8	128	257	32	0	1228	8	38.9	0.031	8102	8102	2.5	2	139127210	3480334	100	0.003480334	0.2459916203	1.205144104	6.360248447	6.5	0.031	3.1		0.4				
	256	1025	32	0	2560	8	44	0.031	16384	16384	2.5	4	1378038715	26506842	100	0.026906843	0.147608963	1.247059419	6.3608205	6.5	0.031	3.1		0.4				
	512	4097	32	0	5120	8	47.2	0.031	32768	32768	2.5	4	630078452	25749464	100	0.257949461	0.1167053999	1.040651355	6.360015601	6.5	3%	0.031	3.1		0.4			
16	128	65	32	0	3072	16	38.4	0.123	32768	32768	1.5	2	139107876	806297	100	0.000806297	1.05787245	5.182651116	10.61139896	3.5		0.123	12.3		0.6666666667			
	256	257	32	0	6144	16	43.6	0.126	65336	65336	1.5	2	1297919324	10866334	100	0.000806634	0.655269317	5.512605929	10.63896104	3.5		0.124	12.4		0.6666666667			
	512	1025	32	0	12288	16	47	0.126	131072	131072	1.5	2	413459974	5961098	100	0.059610986	0.5050091773	4.503120549	10.68279584	3.5	13%	0.125	12.5		0.6666666667			
32	128	17	32	0	8192	32	42.9	0.49	131072	131072	1	1	1346702466	380341	100	0.000380341	2.250961637	11.02774615	15.93774319	2	0.49	49		1				
	256	65	32	0	16384	32	45.9	0.494	262144	262144	1	1	1333082607	2778247	100	0.002778247	1.429567637	12.07755538	15.96881092	2	0.494	49.4		1				
	512	257	32	0	32768	32	47.9	0.498	524288	524288	1	1	1347124845	21540054	100	0.021540054	1.397586793	12.46215334	15.98439024	2	50%	0.498	49.8		1			
pkg_v3																												
rozmiar bloku węzłów	rozmiar instancji	invocations	regs	static smem	global load transaction	global store transactions	multiprocessor activity	achieved occupancy	FP instructions/single	global load transactions per request	global store transactions per request	session	kernel	importance	kernel time[s]	przyspieszenie	prędkość GFlops	CGMA										
8	128	1	29	512	40960	2048	97	0.474	2097152	2097152	2.5	4	350572582	136520	100	0.00013652	6.271117785	30.72300029	48.76190476	6.5	0.474	47.4		0.4				
	256	1	29	512	327680	8192	99.5	0.493	16777216	16777216	2.5	4	518847523	1053556	100	0.001053556	3.769796784	31.84874694	48.96421951	6.5	0.493	49.3		0.4				
	512	1	29	512	2621440	32768	99.9	0.497	134217728	134217728	2.5	4	344463421	8378926	100	0.006378926	3.592834571	32.03667658	50.56780123	6.5	50%	0.497	49.7		0.4			
16	128	1	24	2048	12288	1024	97.5	0.906	2097152	2097152	1.5	2	325672172	148169	100	0.000148169	5.778084485	28.30756771	157.5384615	3.5		0.906	90.6	50	0.6666666667			
	256	1	24	2048	98304	4096	99.6	0.978	16777216	16777216	1.5	2	311321894	1159555	100	0.001159555	3.425186386	28.93733544	163.84	3.5		0.978	97.8	100	0.6666666667			
	512	1	24	2048	786432	16384	99.9	0.993	134217728	134217728	1.5	2	318608175	9230202	100	0.009230202	3.261477376	29.08229484	167.1636735	3.5	100%	0.993	99.3	100	0.6666666667			
32	128	1	22	8192	4096	512	98.3	0.966	2097152	2097152	1	1	1320809248	212140	100	0.00021214	4.035698124	19.77139625	455.1111111	2	0.966	96.6		1				
	256	1	22	8192	32768	2048	99.8	0.991	16777216	16777216	1	1	1342193231	1662530	100	0.00166253	2.38894456	20.18275279	481.8823529	2	0.991	99.1		1				
	512	1	22	8192	262144	8192	99.9	0.997	134217728	134217728	1	1	1327581844	13248901	100	0.013248907	2.272194604	20.26095104	496.4849485	2	100%	0.997	99.7		1			
pkg_v5																												
rozmiar bloku węzłów	rozmiar instancji	invocations	regs	static smem	global load transaction	global store transactions	multiprocessor activity	achieved occupancy	FP instructions/single	global load transactions per request	global store transactions per request	session	kernel	importance	kernel time[s]	przyspieszenie	prędkość GFlops	CGMA										
8	128	1	32	2048	16384	2048	95.8	0.413	2097152	2097152	2.286	4	312683325	95688	100	0.000095688	8.947130257	43.83312432	113.7777778	6.286	0.413	41.3		0.4374453193				
	256	1	32	2048	131072	8192	99.3	0.479	16777216	16777216	2.286	4	344033767	713143	100	0.000713143	5.569278532	47.05147775	120.4705882	6.286	0.479	47.9		0.4374453193				
	512	1	32	2048	1048576	32768	99.7	0.494	134217728	134217728	2.286	4	327017391	5597344	100	0.005597344	5.378282092	47.95764848	124.1212121	6.286	50%	0.494	49.4		0.4374453193			
16	128	1	32	8192	5120	1024	97.4	0.644	2097152	2097152	1.429	2	330734767	188011	100	0.000188011	4.5536325	22.30882236	341.3333333	3.429	0.644	64.4		0.699790063				
	256	1	32	8192	40960	4096	99.7	0.725	16777216	16777216	1.429	2	324879461	1520600	100	0.0015206	2.61192424	22.06657372	372.3636364	3.429	0.725	72.5		0.699790063				
	512	1	32	8192	327680	16384	100	0.743	134217728	134217728	1.429	2	356200485	11824817	100	0.011824817	2.545840244	22.70102413	390.0952381	3.429	75%	0.743	74.3		0.699790063			
32	128	1	32	32768	2816	1024	98	0.499	2097152	2097152	1.571	2	345986978	187243	100	0.000187243	4.340489776	21.26485324	546.1333333	3.571	0.499	49.9		0.6365372374				
	256	1	32	32768	22529	4096	99.6	0.499	16777216	16777216	1.571	2	331461774	1505721	100	0.001505721	2.637734348	22.28462776	630.1539462	3.571	0.499	49.9		0.6365372374				
	512	1	32	32768	180224	16384	99.9	0.5	134217728	134217728	1.571	2	343760306	1202743	100	0.012027439	2.502951376	22.31858802	682.6666667	3.571	50%	0.5	50		0.6365372374			

		rozmiar bloku wątków	8			16			32	
		rozmiar instancji	128	256	512	128	256	512	128	256
		invocations	257	1025	4097	65	257	1025	17	65
		regs	32	32	32	32	32	32	32	32
		static smem	0	0	0	0	0	0	0	0
		global load transaction	1280	2560	5120	3072	6144	12288	8192	16384
		global store transactions	8	8	8	16	16	16	32	32
		achieved occupancy	0,031	0,031	0,031	0,123	0,124	0,125	0,49	0,494
		FP instructions(single)	8192	16384	32768	32768	65536	131072	131072	262144
		global load transactions per request	2,5	2,5	2,5	1,5	1,5	1,5	1	1
		kernel[ns]	3480334	26906843	2,58E+08	809297	6086634	59610986	380341	2778247
		kernel time[s]	0,00348	0,026907	0,257949	0,000809	0,006087	0,059611	0,00038	0,002778
		przyspieszenie	0,245992	0,147609	0,116705	1,057872	0,652527	0,505009	2,250962	1,429568
		prędkość GFlops	1,205144	1,247059	1,040651	5,182651	5,512806	4,503121	11,02775	12,07756
		CGMA	6,360248	6,380062	6,390016	10,6114	10,63896	10,6528	15,93774	15,96881
		zajętość multiprocessora teoretyczna	0,03			0,13			0,5	
		rozmiar bloku wątków	8			16			32	
		rozmiar instancji	128	256	512	128	256	512	128	256
		invocations	1	1	1	1	1	1	1	1
		regs	29	29	29	24	24	24	22	22
		static smem	512	512	512	2048	2048	2048	8192	8192
		global load transaction	40960	327680	2621440	12288	98304	786432	4096	32768
		global store transactions	2048	8192	32768	1024	4096	16384	512	2048
		achieved occupancy	0,474	0,493	0,497	0,906	0,978	0,993	0,966	0,991
		FP instructions(single)	2097152	16777216	1,34E+08	2097152	16777216	1,34E+08	2097152	16777216
		global load transactions per request	2,5	2,5	2,5	1,5	1,5	1,5	1	1
		kernel	136520	1053556	8378926	148169	1159555	9230202	212140	1662530
		kernel time[s]	0,000137	0,001054	0,008379	0,000148	0,00116	0,00923	0,000212	0,001663
		przyspieszenie	6,271118	3,769797	3,592835	5,778084	3,425186	3,261477	4,035698	2,388945
		prędkość GFlops	30,723	31,84874	32,03698	28,30757	28,93734	29,08229	19,7714	20,18275
		CGMA	48,7619	49,95122	50,5679	157,5385	163,84	167,1837	455,1111	481,8824
		zajętość multiprocessora teoretyczna	0,5			1			1	
		rozmiar bloku wątków	8			16			32	
		rozmiar instancji	128	256	512	128	256	512	128	256
		invocations	1	1	1	1	1	1	1	1
		regs	32	32	32	32	32	32	33	32
		static smem	2048	2048	2048	8192	8192	8192	32768	32768
		global load transaction	16384	131072	1048576	5120	40960	327680	2816	22528
		global store transactions	2048	8192	32768	1024	4096	16384	1024	4096

		achieved occupancy	0,413	0,479	0,494	0,644	0,725	0,743	0,499	0,499	0,5
		FP instructions(single)	2097152	16777216	1,34E+08	2097152	16777216	1,34E+08	2097152	16777216	1,34E+08
		global load transactions per request	2,286	2,286	2,286	1,429	1,429	1,429	1,571	1,571	1,571
		kernel	95688	713143	5597344	188011	1520600	11824817	197243	1505721	12027439
		kernel time[s]	9,57E-05	0,000713	0,005597	0,000188	0,001521	0,011825	0,000197	0,001506	0,012027
		przyspieszenie	8,94713	5,569279	5,378282	4,553633	2,611924	2,54584	4,340499	2,637734	2,502951
		prędkość GFlops	43,83312	47,05148	47,95765	22,30882	22,06657	22,70102	21,26465	22,28463	22,31859
		CGMA	113,7778	120,4706	124,1212	341,3333	372,3636	390,0952	546,1333	630,1538	682,6667
		zajętość multiprocessora teoretyczna	0,5			0,75			0,5		



		[ns]	[s]
	128	856133	0,000856133
czasy IKJ	256	3971692	0,003971692
	512	30104095	0,030104095