

Table 1: Execution time and amount of data read/written for all experiments in the PC

Operation	Req. Size	Cache	HDD1		HDD2		SSD1		SSD2	
			Data (MB)	Time (s)	Data (MB)	Time (s)	Data (MB)	Time (s)	Data (MB)	Time (s)
read	32KB	No	5060.20	60.01	2385.80	60.00	20480.00	49.91	15833.00	60.00
	4MB	No	5058.00	60.07	2388.00	60.05	20480.00	39.21	20480.00	44.35
random read	32KB	No	148.05	60.01	147.17	60.01	12013.50	60.00	6749.95	60.00
	4MB	No	1664.00	60.08	2032.00	60.07	20480.00	39.75	20480.00	43.25
write	32KB	Yes	7126.40	63.51	4643.95	66.75	18710.50	61.94	17244.50	61.88
		No	4979.95	60.00	2337.80	60.00	17421.00	60.00	15439.50	60.00
	4MB	Yes	7148.00	64.53	4686.00	66.75	18662.00	61.78	15164.00	60.99
		No	4972.00	60.04	2348.00	60.05	17288.00	60.01	13700.00	60.01
random write	32KB	Yes	4863.15	63.79	2936.00	67.39	19598.50	60.01	14378.00	63.03
		No	239.84	60.01	203.39	60.24	17406.50	60.00	11262.50	60.00
	4MB	Yes	5770.00	60.60	4502.00	62.19	18616.00	61.61	14646.00	60.49
		No	3262.00	60.07	1992.00	60.02	17420.00	60.01	14116.00	60.01

Table 2: Execution time and amount of data read/written for all experiments in the MPSoC

Operation	Req. Size	Cache	HDD1		HDD2		SSD1		SSD2	
			Data (MB)	Time (s)	Data (MB)	Time (s)	Data (MB)	Time (s)	Data (MB)	Time (s)
read	32KB	No	2369.50	60.00	2386.35	60.00	3958.90	60.00	3538.05	60.00
	4MB	No	3030.00	60.03	2048.00	60.07	8082.00	60.01	8056.00	60.01
random read	32KB	No	146.28	60.01	142.67	60.01	3207.10	60.00	2785.40	60.00
	4MB	No	1560.00	60.08	1892.00	60.07	8286.00	60.01	8058.00	60.01
write	32KB	Yes	2170.65	60.11	2273.90	60.11	2253.75	60.03	2266.70	60.07
		No	1420.85	60.00	1324.50	60.00	1537.50	60.00	1463.25	60.00
	4MB	Yes	2158.00	60.08	2256.00	60.05	2252.00	60.07	2242.00	60.06
		No	1756.00	60.06	2034.00	60.04	2036.00	60.05	2034.00	60.05
random write	32KB	Yes	1320.05	60.12	382.73	60.11	2183.40	60.06	2177.50	60.07
		No	185.25	60.02	202.83	60.01	1498.00	60.00	1464.85	60.00
	4MB	Yes	1546.00	60.12	1908.00	60.06	2210.00	60.08	2200.00	60.13
		No	1344.00	60.08	1888.00	60.04	2064.00	60.06	2054.00	60.07