age: Details		▼ <u>R</u> esult: 0 -	121 - prefixSum	ScanKernel	Kernel 🔻 🔽		Add Baseline 🔻 🗆	Apply <u>R</u> ules 🔲 Occ	Occupancy Calculator		Save as PDF ▼		
	Result		Time	Cycles	Regs	GPU		SM Frequency	CC P	rocess	⊕ ∈	R	3
Curre	ent 121 - prefix	SumScanKerne	1.82 msecond	۲٬۵٤۱٬۲۸۷	17	0 - NVI	DIA GeForce RTX 3090	1.39 cycle/nsecond	8.6 [2	258893] task2	<u> </u>		Ľ
▶ GPU	Speed Of Light	t Throughput							All			<b>-</b>	Ω
							J. For each unit, the thro idual sub-metric of Cor						
Compute (SM) Throughput [%]						23.80	Duration [msecond]					1.	82
Memory Throughput [%]						24.15	Elapsed Cycles [cycle]	1			2,	541,2	87
L1/TEX Cache Throughput [%]						24.50	SM Active Cycles [cyc	le]			2,475	5,772.	21
L2 Cac	he Throughput	[%]				10.64	SM Frequency [cycle/	nsecond]				1.3	39
DRAM	Throughput [%]					24.15	DRAM Frequency [cyc	le/nsecond]				9.	49
A	Latency Issue	Achieved compu		d/or memo	ry band	lwidth be	andwidth utilization rela elow 60.0% of peak typi				<u>fuler</u>	•	)
▶ Lau	nch Statistics												Ω
							fines the size of the ker naximizes device utiliza		f the grid	d into blocks, a	nd the G	PU	
Grid Size				24,006 Function Cache Conf			guration		cudaFuncCa	achePre	ferNo	ne	
Registers Per Thread [register/thread						16	Static Shared Memory	Per Block [Kbyte/block	ck]			8.	19
Block S	Size					1,024	Dynamic Shared Mem	ory Per Block [byte/blo	ock]				0
Threads [thread]					24,5	82,144	Driver Shared Memory	Per Block [Kbyte/block	ck]			1.	.02
Waves Per SM				292.76			Shared Memory Configuration Size [Kbyte]			16.38			
▶ Occ	upancy										ſ		Ω
percent always	age of the hard reduces the abi	ware's ability to pr	ocess warps that es, resulting in ov	is actively i erall perforn	n use. I	Higher o	mum number of possib ccupancy does not alw tion. Large discrepancie	ays result in higher pe	rforman	ce, however, lo	w occup	ancy	
Theore	tical Occupancy	y [%]				66.67	Block Limit Registers	[block]					4
Theore	tical Active War	rps per SM [warp]				32	Block Limit Shared Me	em [block]					1
Achieved Occupancy [%]						63.37	Block Limit Warps [blo	ock]					1
Achiev	ed Active Warps	s Per SM [warp]				30.42	Block Limit SM [block	]					16
Ā	Occupancy Lim		limited by the nu				by the required amount block See the @ CUDA					су	