## Sheet1

GPU vs CPU vari	ous machines.ods																		
WESmith 03/24/23																			
timing results using code implemented from:					https://learnopencv.com/getting-started-opencv-cuda-module/														
test video: pedestrians.mp4 from					/usr/share/visionworks/sources/data/ in jetson nano Jetp					allation									
VIDEO PROPERTIES					960 X 540 PIXELS, 29.899 FPS, 419 FRAMES														
									ALL T	IMES IN SEC	ONDS		FRAMES PER SECOND				SUMMARY		
machine	СРИ	NUMBER OF THREADS	GPU	OS	RAM	openCV	GPU or CPU USED IN PROCESSING	reading	Pre-process	optical flow	Post-process	full pipeline	orig video fps	optical flow	full pipeline fps	RATIO OF MACHINE TO GPU: OPTICAL FLOW TIME ONLY	inverse of previous column	RATIO OF GPU TO MACHINE: FULL PIPELINE FPS	inverse of previous column
jetson nano	Quad-core ARM Cortex-A57 MPCore	4	NVIDIA Maxwell with 128 NVIDIA CUDA cores	Jetpack 4.3	4 GB 64-bit LPDDR4, 1600MHz 25.6 GB/s	4.7.0	GPU	2.165	1.795	84.172	11.455	99.611	29.899	4.966	4.196	1	1	1	1
jetson nano	Quad-core ARM Cortex-A57 MPCore	4	NVIDIA Maxwell with 128 NVIDIA CUDA cores	Jetpack 4.3	4 GB 64-bit LPDDR4, 1600MHz 25.6 GB/s	4.7.0	CPU	1.566	0.61	227.848	12.302	242.345	29.899	1.835	1.725	2.706933422	0.36942172	2.43246377	0.4111058
Acer Aspire-E5- 576G	Intel Core i5- 8250U 4 x 1.6 GHz	8	N/A	Ubuntu 22.04	16 GB DDR3L	4.7.0	CPU	0.254	0.126	66.96	2.249	69.596	29.899	6.243	6.006	0.795513948	1.25704898	0.6986347	1.4313632
Raspberry Pi 4	Broadcom BCM2711, Quad core Cortex-A72 (ARM v8) 64-bit SoC @ 1.8GHz	4	N/A	bullseye	8GB LPDDR4- 3200 SDRAM	4.7.0	CPU	2.774	1.007	172.218	13.837	189.857	29.899	2.427	2.202	2.046024806	0.48875263	1.90554042	0.5247855