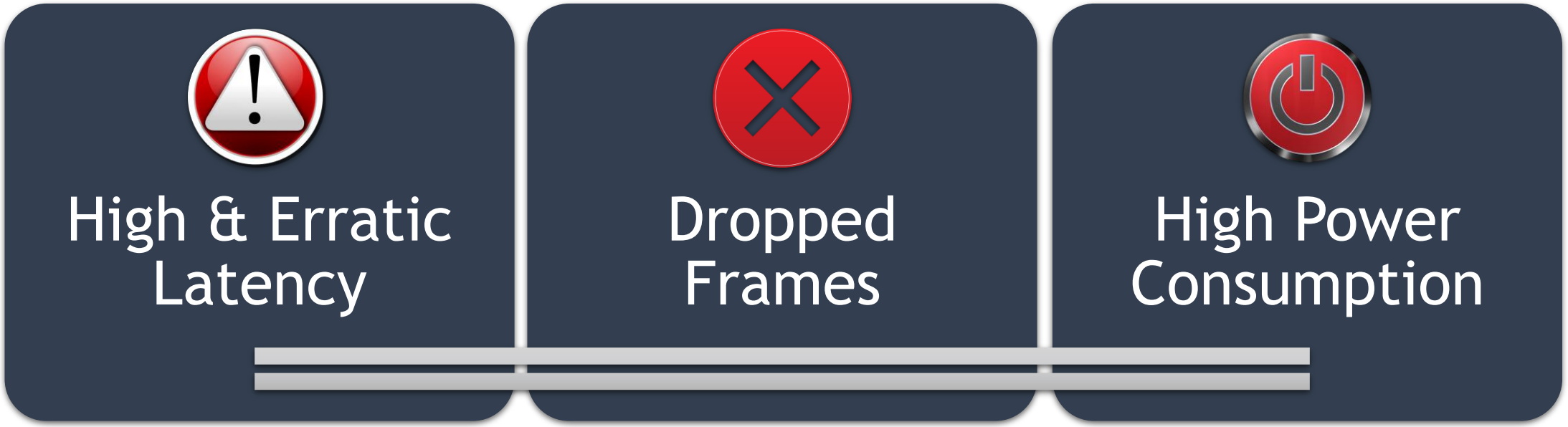
Our customers are developing Edge AI deployed on GPUs or TPUs and experience Hardware Limitations & Resource Contentions.

AI is Designed + Hardware System is Selected =

Performance Results are Based on Hardware



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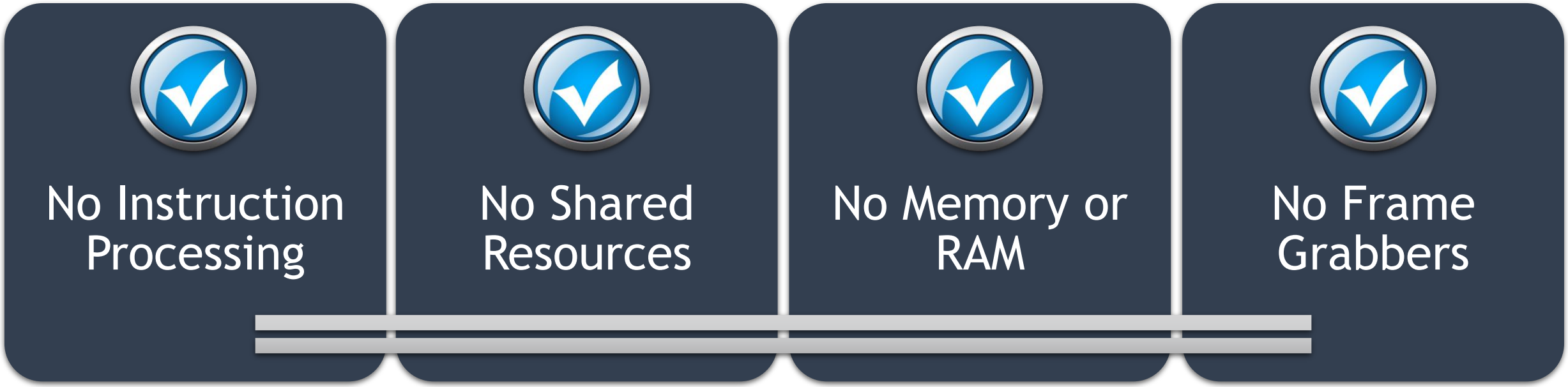
GigaMACS™ converts AI Models in a pipeline architecture without hardware limitations or resource contentions.

AI is Designed + Performance Requirements are Selected =

Hardware is Designed to Fit the Model & Performance



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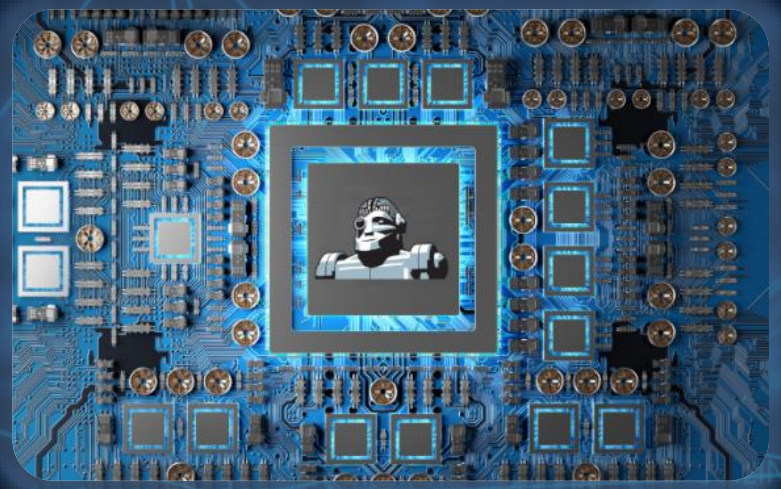
GigaMACS™ Performance is Constant & Predictable



Latency in Microseconds

90% Power Savings

No Dropped Frames

HD at 240 FPS

4K at 60 FPS

The same circuit processes **HD at 240 FPS** or **4K at 60 FPS** without any sacrifices to performance.

GigaMACS™ very low clock rate indicates a massive reduction of power consumption!

ResNet-34 Test Results	Gigantor	nVidia Jetson Series			
	GigaMACS™	Nano	TX2 series	Xavier NX	AGX Xavier
1200 x 1200	691FPS	1FPS	2FPS	29FPS	55FPS
1920 x 1080 (HD)	240FPS	✕	✕	✕	✕
3840 x 2160 (4K)	60FPS	✕	✕	✕	✕

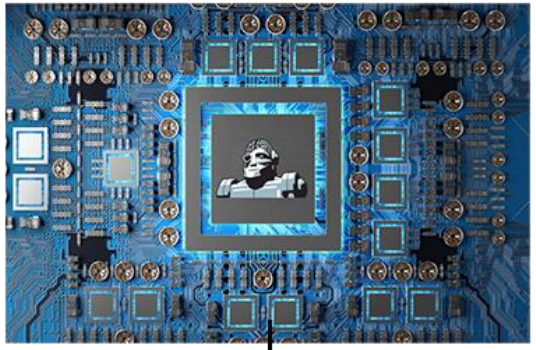
Hardware	Clock MHz	HD 1920x1080 Images	
		FPS	Latency msec
nVidia Tesla V100	1380	22FPS	45
nVidia A100	1410	28FPS	41
Xilinx VU9P w/GigaMACS™	125	240FPS	0.35

GigaMACS™ Synthetic Scaler

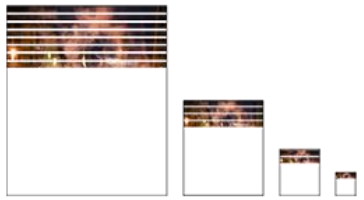
Identify Every Object at ALL Ranges

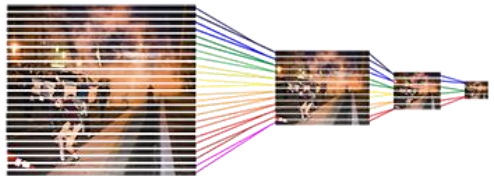
Train the model on only one size

Input



Interleaved Scales Stream





Accepting & Scaling

All Scales go to Same Model at Each Frame Size

Output