EXHIBIT I

Exhibit I - US 7,620,800 SRC Labs – Amazon F1 / Mipsology / Xilinx

Claim 1

A **(P) method for data processing** in a reconfigurable **(A) computing system**, the reconfigurable computing system co[...] least one **(G) reconfigurable processor**, the reconfigurable processor comprising a plurality of functional units, said me[...] comprising:

ZEBRA – FASTER NEURAL NETWORK INFERENCE FOR AWS F[...]

(A)

amazon web services | Partner Network

(G)

Mipsology offers FPGA-based class-leading acceleration for Deep Learning, with no FPGA kn[...] required. We leverage more than 20 years designing high-performance FPGA-based systems [...] to offer our users the best solutions for Deep Learning.

Mipsology's first product, Zebra, offers users FPGA-based class leading acceleration for Neura[...] inference. There is zero FPGA knowledge required nor a single line of code to write to use Zeb[...] runs user defined neural network just as it would on GPU or CPU, switching takes minut[...]

(P)

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Mipsology

Zebra Deep-Learning engine for Caffe (1 FPGA)

Sold by: Mipsology SAS

(P)

30 Day Free Trial Available - Zebra accelerates neural network inference using FPGA. User-defined neural networ[...] by Zebra just as they would be by a GPU or a CPU. Zebra is fully integrated with the traditional Deep Learning infr[...] Caffe, MXNet or TensorFlow.There is zero FPGA knowledge required nor a single line of code to write to use Zebra[...] the Zebra library to switch from CPU or GPU to FPGA in minutes. Zebra includes the FPGA image and the softwar[...] no FPGA compilation or FPGA tools to use. This AMI contains the following components: o Includes Zebra FPGA a[...] for Caffe. o This AMI su[...] own CNN, similar to AlexNet and GoogleNet neural networks. o Supports 1 FP[...] with f1.2xlarge). o Pre-i[...] and Caffe. o Includes pr[...] network, VGG-16, VGG-[...] http://www.mipsology[...]

(A)

F1 FPGA Instance Types **on AWS**

- Up to 8 Xilinx UltraScale+ 16nm VU9P FPGA devices in a single inst[...]
- The **f1.16xlarge** size provides:

  (G)

  - 8 FPGAs, each with over 2 million customer-accessible FPGA programmable logic cells and over 5000 programmable DSP blo[...]
  - Each of the 8 FPGAs has 4 DDR-4 interfaces, with each interfac[...] accessing a 16GiB, 72-bit wide, ECC-protected memory

Instance Size	FPGAs	DDR-4 (GiB)	FPGA Link	FPGA Direct	vCPUs	Instance Memory (GiB)	NVMe I[...] Storag[...]
f1.2xlarge	1	4 x 16	-	-	8	122	1 x [...]
f1.16xlarge	8	32 x 16	Y	Y	64	976	4 x [...]

Source: https://aws.amazon.com/marketplace/pp/B073SHB43M

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(A)

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  - 8 FPGAs, each with over 2 million customer-accessible FPGA programmable logic cells and over 5000 programmable DSP blocks
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Instance Size	FPGAs	DDR-4 (GiB)	FPGA Link	FPGA Direct	vCPUs	Instance Memory (GiB)	NVMe Instance Storage (GB)
f1.2xlarge	1	4 x 16	-	-	8	122	1 x 470
f1.16xlarge	8	32 x 16	Y	Y	64	976	4 x 940

(FU)

FPGA	Intel Stratix-10 GX2800	Xilinx VU9P	Xilinx VU13P
DSP	5,760 (11,520 mult)	6,840	12,288
Boolean Logic	2,753k LE	2,586k LC	3,780k LC
Flip-Flops	3,732k	2,592k	3,456k

(G)

(FU)

Table 1 : Logic available in newest FPGA

Source: https://www.slideshare.net/AmazonWebServices/deep-dive-on-amazon-ec2-f1-instance-may-2017-aws-online-tech-talks;

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(P) In January 2017, our team demonstrated Zebra executed on a KU115 – showcasing the fastest 100 percent FPGA-based solution computing any neural network inference (as far as we've been able to determine).

(A) We ported Zebra to AWS in just two months, and will soon offer access to our Zebra f1 implementation on AWS Marketplace. In Q2, we will support all convolutional neural networks (CNN) similar to AlexNet and GoogLeNet, delivering inference performance reaching 4000 images per second and more than 100 images per second per watt. We will also add support for Caffe and MXNET infrastructures, so our users will never have to worry about their FPGAs running "undercover."
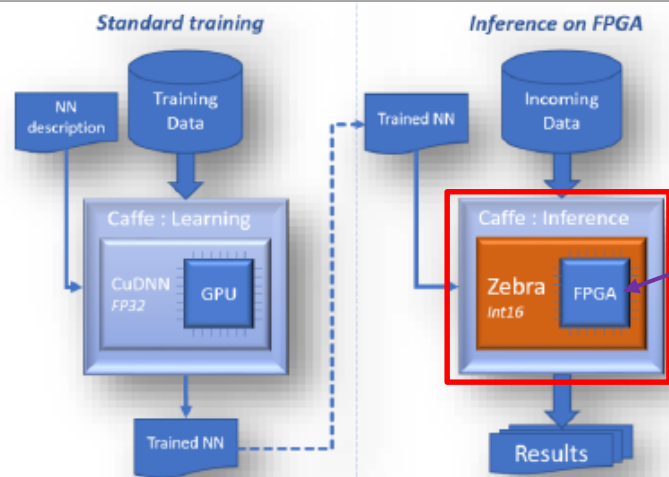
Figure 1: Mipsology Zebra general flow. The GPU is replaced by an FPGA when performing inference in the same infrastructure.

FPGA	Intel Stratix-10 GX2800	Xilinx VU9P	Xilinx VU13P
(FU) DSP	5,760 (11,520 mult)	6,840	12,288
Boolean Logic	2,753k LE	2,586k LC	3,780k LC
Flip-Flops	3,732k	2,592k	3,456k

(G) FPGA

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