

# Imagination Technologies and Synopsys Collaborate to Enable Faster Emulation

ZeBu Server-3 emulator achieves 3.5 MHz performance on PowerVR Series 6 GPU to speed driver development and SoC verification

MOUNTAIN VIEW, Calif., and LONDON, Feb. 25, 2014 /PRNewswire/ -- Synopsys, Inc. (Nasdaq:SNPS), a global leader providing software, IP and services used to accelerate innovation in chips and electronic systems, and Imagination Technologies (IMG.L) today announced a collaboration to enable designers to speed verification and hardware/software bring-up of system on chips (SoCs) containing Imagination Technologies' latest PowerVR Series6 GPU (graphics processing unit) cores using ZeBu® Server emulators. With the Synopsys ZeBu® Server-3 emulation system, Imagination was able to achieve over 3.5 MHz performance for significantly higher verification throughput and improved GPU driver development productivity. The two companies are working together to optimize performance for a broad range of Imagination's cores on ZeBu Server-3, including a range of PowerVR GPUs and MIPS central processing units (CPUs). With this collaboration, the companies look to make high performance emulation more easily accessible for a broad range of companies developing advanced SoCs.

"The PowerVR Rogue GPU architecture drives performance to new levels while consuming low memory bandwidth and delivering high performance per mm2 and per mW," said Martin Ashton, executive vice president of engineering, PowerVR Visual IP, Imagination. "Delivering next-generation IP requires high-performance design verification technology. Using Synopsys ZeBu Server-3, we were able to achieve 3.5 MHz performance on our latest PowerVR GPUs. The increase in performance using latest-generation emulators like ZeBu Server-3 delivers higher productivity not only for silicon and software IP developers like Imagination, but also for SoC developers integrating our IP."

"Imagination Technologies is advancing the state-of-the art in technology with solutions such as their PowerVR GPUs, MIPS CPUs and other processors," said Manoj Gandhi, senior vice president and general manager, Verification Group, at Synopsys. "Our collaboration with Imagination will help their customers bring-up and verify complex SoCs more quickly by taking advantage of Synopsys ZeBu Server-3's industry-leading emulation performance."

## About Imagination Technologies

Imagination is a global technology leader whose products touch the lives of billions of people throughout the world. The company's broad range of silicon IP (intellectual property) includes the key multimedia, communications and general purpose processors needed to create the SoCs (Systems on Chips) that power all mobile, consumer, automotive, enterprise, infrastructure, IoT and embedded electronics. These are complemented by its unique software and cloud IP and system solution focus, enabling its licensees and partners get to market quickly by creating and leveraging highly differentiated SoC platforms. Imagination's licensees include many of the world's leading semiconductor manufacturers, network operators and OEMs/ODMs who are creating some of the world's most iconic and disruptive products. See: <https://www.imgtec.com/>.

## About Synopsys

Synopsys, Inc. (Nasdaq:SNPS) accelerates innovation in the global electronics market. As a leader in electronic design automation (EDA) and semiconductor IP, its software, IP and services help engineers address their design, verification, system and manufacturing challenges. Since 1986, engineers around the world have been using Synopsys technology to design and create billions of chips and systems. Learn more at [www.synopsys.com](http://www.synopsys.com).

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