Popular consumer entertainment and mobile devices displaying state-of-the-art graphics rely on Vivante’s GPU cores at the heart of their systems.

With a unique blend of performance and cutting-edge designs, Vivante cores enable products to run faster, smaller, and cooler.

CodeSonar Helps Vivante Deliver Reliable GPU Cores On Time

At the center of every Vivante graphics solution is a complete suite of innovative software and hardware technologies, supporting the latest graphics standards and industry specifications.

The proliferation of handheld and consumer entertainment products, combined with the popularity of Vivante’s solutions being embedded into leading OEM products, has driven the company’s rapid growth.

The organization’s focus on development and engineering excellence, as well as customer-focused dedication, has helped transform the company into a leading visual computing technology provider, serving the world’s leading semiconductor companies.

Vivante GPUs feature a scalable, fully programmable multi-threaded architecture, enabling the GPUs to support current and next-generation applications.

The GPU’s flexibility allows developers and engineers to tailor applications for individual customers, but development time must be balanced against production schedules and against the need to strictly adhere to the highest quality standards. To help strike this balance, Vivante investigated the use of static analysis tools, and ultimately adopted CodeSonar.

Frido Garritsen, Chief Architect at Vivante, managed the evaluation. “When we tried different static analysis tools on our code base, a major factor we looked at was the quality of results – how accurate the results are, how complete the test coverage is, and what beneficial feedback the tool provides that we can apply directly to our code,” he explained.

“In addition, we were pleased that CodeSonar was able to detect and catch a ‘challenge’ problem we had intentionally embedded in the code base to test the tool’s accuracy.”

The adoption of CodeSonar into Vivante’s test and QA process helps maintain the highest standard of quality while maximizing developer efficiency to solve code problems. Now, the Vivante engineers can spend more time focusing on developing the next generation of cutting-edge graphics technologies.

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