

## Debugger & Trace Solutions for **Invidia**. System-on-a-Chip (SoC)

NVIDIA offers a comprehensive portfolio of SoCs to address requirements across a wide set of industries and applications with a strong focus on Artificial Intelligence (AI). They implement several kinds of high performance Arm<sup>®</sup> cores as main CPUs. Lauterbach's market leading TRACE32<sup>®</sup> debug and trace development tools provide not only full insights into NVIDIA chips for the whole SoC lifecycle: Thanks to the long-standing close partnership with NVIDIA, future chip developments are also accompanied by Lauterbach from the very beginning ensuring a future proof investment.

#### Unlimited Multicore Debugging

NVIDIA SoCs implement different kinds of Arm<sup>®</sup> CPUs of the Cortex-A/R and Neoverse families as well as custom Armv8-based CPU designs. No matter what kind of multicore system is used, Lauterbach's TRACE32<sup>®</sup> tools support them all.

#### OS-Aware Debugging of Any Core

Lauterbach's TRACE32<sup>®</sup> OS-aware debugging provides key insights into applications and the operating systems they are running on, no matter if rich operating systems like Linux, real-time operating systems (RTOS), or a mixture of all is used. With this, engineers can better understand how they are behaving and utilizing chip resources.

#### DOWNLOAD OUR SOLUTIONS OVERVIEW

All information about Lauterbach's products for debugging and tracing.



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#### Ready for Software Defined Vehicles (SDV)

On virtualized SDV systems based on NVIDIA SoCs, where multiple OSes are controlled by a hypervisor, TRACE32<sup>®</sup> allows you to perform concurrent OS-aware debugging for each guest OS/virtual machine (VM) and display an overview of the overall system. This includes also any kind of AUTOSAR aware debugging and containerized workloads.

#### Covering the Whole NVIDIA Chip Lifecycle

Besides to real silicon, TRACE32<sup>®</sup> tools can connect to various simulators, emulators, and virtual targets. Developers can reuse the scripts generated in this phase throughout the entire product life cycle because the user interface and scripting commands stay the same from simulations through use in the field by the customers.

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# DEBUGGER and TRACE-Solutions for NVIDIA SoCs

Chib.Family	Archiectures	Debug	On Chip Nacc	Of Chip Page	400 000 000 000 000	hostruction Set Simulator
CHIPS		AVAILABLE TRACE32® SOLUTIONS				
Drive <sup>™</sup> Orin <sup>™</sup>	Arm <sup>®</sup> Cortex-A, Arm <sup>®</sup> Cortex-R	<b>√</b> 1	√ 1	√ 2	√ з	<b>√</b> 4
Drive <sup>™</sup> Thor <sup>™*</sup>	Arm®Neoverse <sup>™</sup> V3, Arm®Cortex-R	√ 1	√ 1	√ 2	√ з	√ 4
Xavier™	NVIDIA Carmel Arm®v8.2A	√ 1			√ з	√ 4
further NVIDIA Chips	Please search Lauterbach's chip data	base – see QR d	code below			

\* : Coming Soon



Find the Right TRACE32<sup>®</sup> Solution for Your Chip: **lauterbach.com/supported-platforms/nvidia** 



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