



SHORTEN COMPILE TIME. BOOST PERFORMANCE.

Design complexity is growing across industries. Rely on the AMD Vivado™ Design Suite to move fast and optimize adaptive SoCs and FPGAs for today's requirements.

THE FAST PATH TO FMAX

AMD L
Vivado

Create, integrate, and implement complex designs with the industry's only machine learning-powered electronic design automation tool.

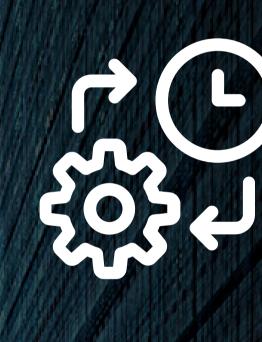
Reach new levels of efficiency

average compile time improvement¹ performance goals

Confidently meet

average improvement in QoR²

STREAMINE THE DESIGN CYCLE



Abstract Shell

Enable fast compile time and secure collaboration

- Reduce compile time and memory overhead. Drive productivity with team-based design.
- Provide proprietary features for data security in a multi-user environment.



Close timing in

Intelligent Design Runs

fewer iterations Reduce design iterations with intelligence-based recommendations.

- Efficiently achieve better QoR using machine learning algorithms. Score designs and analyze performance automatically.



Get accurate power

Power Design Manager

estimation from the start Confidently evaluate design power consumption. Save time and effort early in the design cycle.

Estimate power accurately for target devices.

AMD ADAPTIVE DEVICES Adaptive SoCs

MADE FOR GAME-CHANGING

ZYNQ ZYNQ RFSoC

AMDA

ZYNQ

AMD

MPSoC

AMDA

FPGAs

AMDA

AMDA

VERSAL

AMDA

SPARTAN

ARTIX

AMD

KINTEX

AMD

VIRTEX

VIVADOT DESIGN SUITE

Achieve top-quality results for complex designs even faster.

Design Manager

Get Power

Learn More

Download Now

1. Testing done by AMD Vivado engineering team on fifty-eight customer designs for AMD Virtex UltraScale+ using the AMD Vivado ML software tool version 2021.1 running Abstract Shell mode

(Intelligent Design Runs) mode versus without (default mode). Results reflect a single test run of all designs; differences calculated and averaged. Actual results will vary due to factors including specific design, system configuration, and software versions. VIV-004

2. Testing done by AMD Vivado engineering team as of April 14, 2023, on fifty customer designs for AMD Virtex UltraScale+ using the AMD Vivado ML software tool version 2023.1 running IDR

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versus Full Shell Mode. Results reflect a single test run of all designs; differences calculated and averaged. Actual results will vary due to factors including specific design, system configuration,

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and software versions.

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