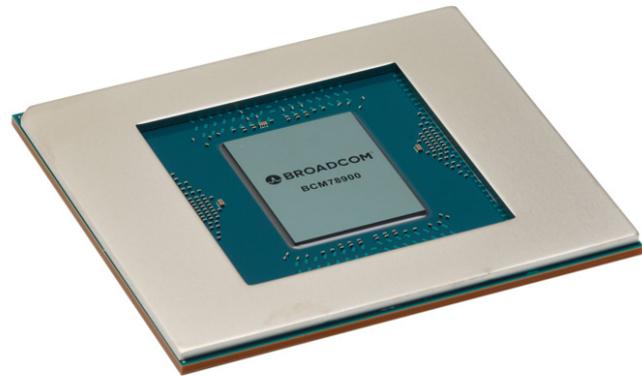




## Testwell CTC++ User Testimonial



Broadcom Inc. is a global leader in infrastructure technology with more than 50 years excellence in Innovation, Collaboration and Engineering.

Over the last 50 years Broadcom has evolved their product portfolio that includes High performance Ethernet Switches, SmartToR, Automotive Ethernet Switches, Co-Packaged Optics Network Switch, to name a few.

Broadcom has grown into a leading tech innovator with rich heritage from LSI, Brocade, CA Technologies and Symantec. The StrataXGS® Switch Solutions host a variety of Ethernet Switch devices designed as a Single-chip solution for data center aggregation, edge and spine switches, Data center fixed and chassis/modular switches, AI/ML clusters and Cloud computing applications. The Ethernet switches are high-performance and high-capacity devices designed to meet the requirements of next-generation data centers and cloud computing environments.

As the design goes through multiple cycles of refinement and because of the rich feature set and concurrent features, Code coverage becomes an important metric for evaluating the correctness of the design. Decision coverage, Line coverage and Multi-condition coverage are some of the metrics by which we evaluate the design and make sure all the network capabilities of the chip are production ready.



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For this endeavor, we had evaluated open source Code coverage tools like CLANG-LLVM and Gcov. While we observed that these open source tools did give us valid Decision and Line coverage information, we were unable to see a detailed report on the Multi-condition coverage metric. Also the interface is difficult to understand and cumbersome.

But in the Testwell CTC++ tool, we were able to get Decision, Line and Multi-condition coverage in the way we want it. Be it the representation of Truth table in Multi-condition report or the ability to enable the different coverage details via checkboxes, we see the carefully crafted attention by Testwell CTC++ team with regards to the usability of the tool and most importantly the readability of the report.

Not to mention the new Modified Condition/Decision coverage which gives more information on the True-False pair coverage for individual atomic condition in a Boolean expression is a feature which will be a great addition to the test metrics we use to validate our designs.



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