

Pain, Possibilities, and Prescriptions Industry Trends in Advanced Functional Verification

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Abstract. Today, many forces at play contribute to the gap between what we can fabricate (silicon capacity) and what we have time to design. In addition, there are forces at play that contribute to a gap between what we can design and what we realistically have time to verify (within a project's schedule). Nonetheless, we tape out complex systems all the time. Hence, the question arises, is the productivity gap real? And if so, what can we do to minimize its effects? This talk provides a statistical analysis of today's industry trends in the adoption of advanced functional verification (AFV) techniques, and then offers new models for improving AFV maturity within an organization.