

Abstract:

Virtual platforms and computer simulation in general are key to the efficient design, development, and deployment of new computer systems. But just how are they used, and for what? In this talk, Jakob Engblom from Intel will talk about the many and varied use cases for virtual platform technology that he has seen over the years - from computer architecture, to pre-silicon firmware and software development, all the way to supporting obsolete hardware platforms. Virtual platforms have a potentially big impact on software development and testing in general, allowing agile practices and continuous integration that would be very hard to do on hardware. Unsurprisingly, this variety of use cases lead to a variety in the depth and breadth of models in use. There is no one model to rule them all.

Biography:

Dr. Jakob Engblom works at Intel in Stockholm, Sweden, as a product manager for the Simics virtual platform tool and as an Intel Software Evangelist. He has worked with virtual platforms and programming tools for more than twenty years, with a focus on embedded systems and low-level code development. He is a member of the Accellera SystemC CCI working group. He has published and presented more than a hundred papers and talks at various conferences and workshops. Jakob got his first computer in the early 1980s and never looked back, eventually getting a PhD in computer systems from Uppsala University, Sweden. You find his personal blog and more information at <http://jakob.engbloms.se/>.