

Abstract:

Ryzen is AMD's latest high performance processor launched in 2017. Ryzen has a completely new x86 micro architecture that delivers 50% more IPC over the previous generation of AMD processor. It is used in wide range of computing devices - from high-end servers, gaming desktops to client laptops.

In this talk, I will discuss the micro architecture of Ryzen processor in details with some overview of the server and client SoC designs using Ryzen. I will also talk about the various challenges faced for high performance CPU designs.