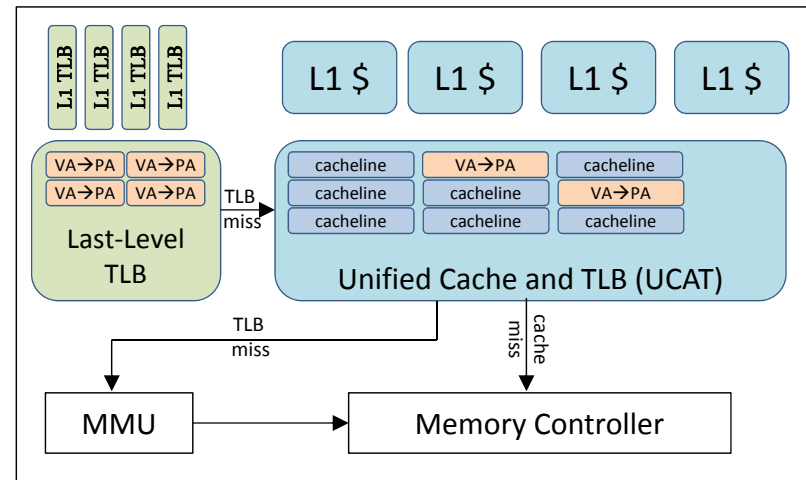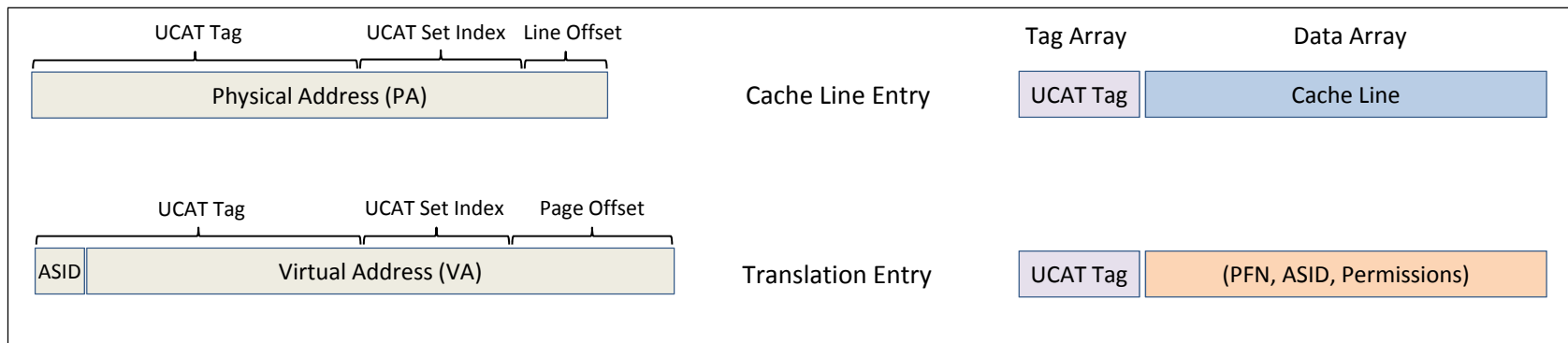(a) Separate LLT and LLC Architecture (Baseline)

(b) Unified Cache and TLB (UCAT) Architecture

(c) UCAT is Indexed using Physical Address to Retrieve Data and using Virtual Address to Retrieve Translations. The contents of the UCAT Tag and Data Array are also illustrated.