

From the Processing Unit to the Multi-Processor System on Chip

A Multi-Processor System on Chip (MPSoC) is a System on Chip (SoC) which includes multiple Processing Units (PU). As such, it is a Multi-Core System-on-Chip. All PUs are linked to each other by a Network on Chip (NoC). These technologies meet the performance needs of multimedia applications, telecommunication architectures or network security.

OVERVIEW

1. INTRODUCTION

2. PROJECTS

2.1. Processing Unit

2.1.1. RISC-V PU

2.1.2. OpenRISC PU

2.1.3. MSP430 PU

2.4. Multi-Processor System on Chip

2.4.1. RISC-V MPSoC

2.4.2. OpenRISC MPSoC

2.4.3. MSP430 MPSoC

3. WORKFLOW

3.1. Front-End Tool

3.2. Back-End Tool

4. CONCLUSION