

Coding Guidelines for Datapath Synthesis

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Coding Guidelines for Datapath Synthesis

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Introduction

This document summarizes coding guidelines addressing the synthesis of datapaths. Two classes of guidelines are distinguished:

- Guidelines that help achieve functional correctness and the intended behavior of arithmetic expressions in RTL code.
- Guidelines that help datapath synthesis to achieve the **best possible QoR** (quality of results).

Datapath Synthesis

To write RTL code that gives the best possible QoR during datapath synthesis, it is important to understand what datapath functionality current synthesizers can efficiently implement, how the datapath synthesis flow works, and how coding can influence the effectiveness of datapath synthesis.

Supported Datapath Functionality

The most important technique to improve the performance of a datapath is to **avoid expensive carry-propagations** and to **make use of redundant representations** instead (like carry-save or partial-product) whenever possible. Other techniques include **high-level arithmetic optimizations** (for example, common-subexpression sharing and constant folding). These optimization techniques are most effective when the **biggest and most complex possible datapath blocks** are extracted from the RTL code. This is enabled by supporting the following functionality:

- **Sum of Product (SOP):** Arbitrary sum of products (that is, multiple products and summands added together) can be implemented in one datapath block with one single carry-propagate final adder. Internal results are kept in redundant number representation (for example, carry-save) whenever possible.

*Example: "a = a * b + c * d - 483 * e + f - g + 2918".*

- **Product of Sum (POS):** Limited product of sums (that is, a sum followed by a multiply) can be implemented in one datapath block with one single carry-propagate final adder (that is, no carry-propagation before the

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