MDC in the CERBERO H2020 EU Project

MDC is **integrated in CERBERO** toolchain to provide **acceleration and adaptivity at the edge**.

In combination with PAPIFY and ARTICo³, it features **monitored mixed-grain adaptivity**.

Open Source Tool

MDC is an open source tool available on GitHub **https://github.com/mdc-suite/mdc**

Contacts

Francesca Palumbo fpalumbo@uniss.it
Carlo Sau carlo.sau@unica.it

MORE INFO AT

https://github.com/mdc-suite/mdc/wiki
https://www.youtube.com/c/ideaLabUniss

Multi Dataflow Composer

An **open source tool for mastering adaptivity and acceleration** in your design. It automatically derives reconfigurable accelerators and **specific APIs** for their seamless usage on **heterogeneous FPGA**.

Master Reconfiguration

MDC provides **automatic composition** of different high-level abstract functional specification to be implemented on a single hardware design, based on **coarse-grained reconfigurable technologies**.

Main benefits of the tool are:
- usage of a **simple high-level input** dataflow specification;
- automatic **resource minimization** and **reconfiguration management**.

Benefits – Makes Complex Things Easy!

MDC handles complex and time consuming design issues, making them transparent for users, such as:
- topology **design-space exploration**;
- static and dynamic **power optimization**;
- easy system **integration on FPGA**, with **programming support**.

Create and Program Your Accelerators

MDC enables the complete dataflow-to-hardware customization of a **Xilinx-compliant adaptive accelerator**, delivering also APIs for its fast integration.

mail: info@cerbero-h2020.eu   web: https://cerbero-h2020.eu   twitter: @CERBERO_h2020