



## InAccel Coral FPGA Cluster Manager

Program against your FPGAs like it's a single pool of accelerators

Coral FPGA Manger is a framework that allows the distributed acceleration of large data sets across clusters of FPGA resources using simple programming models. It is designed to scale up from a single device to multiple FPGAs, each offering local computation and storage.

### Main Features:

#### Cluster Management



Automatic configuration and management of the FPGA bitstreams and memory

#### Scheduling



Automatic distribution of multi-thread applications to the FPGA cluster

#### Sharing of resources

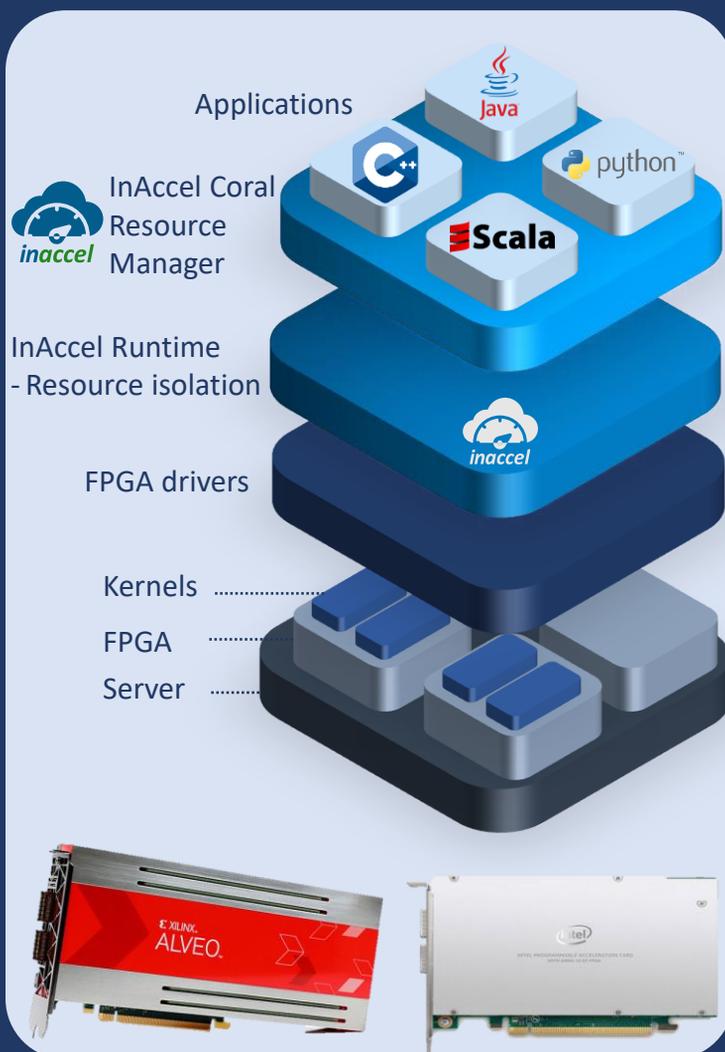


Automatic sharing of the resources from multiple applications

#### Fully Scalable



Allows your IP core to Scale-up (multiple FPGAs per node) and Scale-out (multiple FPGA-based servers over Spark)



Available On Cloud or on Premise





# InAccel Coral FPGA Resource Manager



## Ease of Use

Write applications quickly in C/C++, Java, Scala and Python.

InAccel offers all the required high-level functions that make it easy to build and accelerate parallel apps. No need to modify your application to use an unfamiliar parallel programming language (like OpenCL).



## Generality

Build your own repository of accelerators.

InAccel provides a stack of cores including ML, Financial formulas, compression and encryption. You can combine all these libraries, along with your own ones, seamlessly in the same application.



## Scalability

Industry proven to easily scale to unlimited FPGA resources.



## Runs Anywhere

Runs on any FPGA platform (Xilinx, Intel), giving you the freedom to take full advantage of on-premises, or public Cloud (AWS, Alibaba, Nimbox, etc.) infrastructure.



## Easy to Deploy

Launch a container with InAccel's Docker image or even deploy it as a daemonset on a Kubernetes cluster and enjoy acceleration services at the drop of a hat.



## Resource Management

Automatic resource configuration and task scheduling across entire FPGA clusters in private datacenters or public cloud environments.

Coral examines the state of the FPGAs and implements load-balancing policies across them, efficiently taking care of all the required device configurations and memory transfers.



## Privacy / Isolation

Coral allows the secure sharing of the hardware resources among different users and multiple processes or threads.

First class isolation support for accelerator cores and FPGA memory.



## Web UI

Built-in Web UI for viewing cluster state, navigating in memory objects and monitoring acceleration tasks.

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