

Page 1: Please provide the information requested below....

Q1 What is your organisation's/project's name?

Foundation for Research and Technology – Hellas (FORTH)

Q2 Your organisation's/project's website

<http://www.ics.forth.gr/carv>

Q3 Are you?

A research organisation

Q4 Your name

Nikolaos Chrysos

Q7 Please summarise who you are and what you do

FORTH is a major research center in Greece. Contributions to this project will come from the Computer Architecture and VLSI Systems (CARV) Laboratory of FORTH-ICS, with its 80 people and its 30-year history that includes the design, implementation, and test of dozens of innovative FPGA, ASIC, board, and System Software prototypes. Within the ExaNeSt FETHPC project that it coordinates, and in cooperation with the ExaNoDe project to which it participates, FORTH is building a dense ARMv8 prototype with more than 100 Xilinx Ultrascale+ FPGAs that provides efficient custom and commodity interconnects and a distributed fast storage subsystem. FORTH also participates in the Vineyard H2020 ICT project, building middleware and scheduling policies for heterogeneous datacenters. The aforementioned areas of expertise have attracted a major R&D Lab of KALEAO Ltd. (www.kaleao.com) to the Science & Technology Park of Crete, where it collaborates with FORTH. FORTH is a partner of the recently structured European Processor Initiative (FPA).

Q8 In what way would like to contribute to an EsD project?

As a technology provider,

An an application provider

Q9 What would be your contribution to an EsD project?

FORTH has a strong systems building expertise and would be able to contribute to:

- * large-scale testbeds: tightly interconnected low-power processors and accelerators such as ARMv8, FPGAs, GPUs,
 - * high-performance network interfaces and system interconnects,
 - * systems software stacks for networking and storage I/O,
 - * middleware for accelerators, parallel programming models and runtimes, high-performance data analytics, machine learning.
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Q10 What partners are you looking for?

System integrators and application providers.

Q11 Please include links to any additional material.

<http://www.exanest.eu>
<http://www.exanode.eu>
<https://euroexa.eu/>
<http://www.vineyard-h2020.eu>

Q12 Other comments/ideas

Respondent skipped this question
