iFEST
industrial Framework for Embedded Systems Tools

EXECUTIVE summary
iFEST will specify and develop an open integration framework for establishing and maintaining tool chains for the engineering of complex industrial embedded systems with an emphasis on HW/SW co-design and life-cycle support.

RELEVANCE CALL 2009 objectives
> Establishment of an integrated chain of European-sourced tools [...] to support a complete process flow of development [...]
> System-level model-based tools and design processes that contribute, in an integrated fashion, to elevating the abstraction level for architecture exploration and product design

TECHNICAL innovation
A new systematic approach to tool integration where key ingredients in the framework include shared concepts, models, meta-models, transformations and tool integration services;
> integration of model-driven engineering tools with traditional HW/SW co-design tools
> extensive support throughout the product’s life-cycle, including hardware and software upgradability
> a framework allowing different tool chains to be efficiently derived and maintained, offering the simple exchange of tools
> two operational tool chain prototypes targeting heterogeneous multi-core platforms

The use of tool chains that support abstract modelling combined with automated transformations to low-level software/hardware will be a major step forward for the industry.

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START
April 2011
DURATION
36 months
TOTAL INVESTMENT
€15.8 M
PARTICIPATING ORGANISATIONS
20
NUMBER OF COUNTRIES
8

SPAIN
THE NETHERLANDS
NORWAY
GERMANY
FRANCE
CZECH REPUBLIC
SWEDEN
UNITED KINGDOM