Integrating European Timing Analysis Technology

**From** 2007-12-01 to 2010-05-31, closed project

**Objective**

A large class of embedded systems has safety, availability, reliability, timing and performance requirements. Timing analysis is needed in many steps of the development process; it is a key to rapid designing and prototyping of embedded systems, to reduce system overall cost through efficient resource management (especially: tradeoffs when co-developing hardware and software), to find bottlenecks in the software, and to validate that the system meets its timing requirements. There is a growing awareness of the importance of correct timing for these systems, however, there is still a lack of efficient methods and tools for timing assessment and validation that can be used in European industry. The existing timing analysis technology by far does not exploit the potential inherent in European research results and timing tools.

The ALL-TIMES project aims at combining and developing research results and timing tools currently available and thus to strengthen the European lead in the timing analysis area. The ALL-TIMES project will enable interoperability of tools from SMEs and universities, and develop integrated tool chains using open tool frameworks and interfaces. By combining research results and commercial tools, ALL-TIMES will ensure the flow of ideas from basic research to practice.

ALL-TIMES will strengthen the competitiveness of several key industries in Europe, not only the automotive and aerospace areas (where partial awareness already exists) but also automation, manufacturing, robotics, medical, communication, and multimedia, and other market areas where timing is of importance.
Coordinator

MAELARDALENS HOEGSKOLA
HOGSKOLEPLAN 1
721 23 VASTERAS
Sweden

EU contribution: EUR 413 510

Activity type: Higher or Secondary Education Establishments

Administrative contact: Björn Lisper
Tel.: +46-21-151709
Fax: +46-21-101460
Contact the organisation

Participants

TECHNISCHEN UNIVERSITAET WIEN
KARLSPLATZ 13
1040 WIEN
Austria

EU contribution: EUR 243 667

Activity type: Higher or Secondary Education Establishments

Administrative contact: Markus Schordan
Tel.: +43 15880118516
Fax: +43 15880118598
Contact the organisation

ABSINT ANGEWANDTE INFORMATIK GMBH
SCIENCE PARK 1
66123 SAARBRUECKEN
Germany

EU contribution: EUR 275 375

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Administrative contact: Christian Ferdinand
Tel.: +49681383600
Fax: +496813836020
Contact the organisation
SYMTAVISION GMBH  Germany
WILLY BRANDT PLATZ 17
38102 BRAUNSCHWEIG

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Administrative contact: Marek Jersak
Tel.: +4953188617921
Fax: +4953188617929
Contact the organisation

EU contribution: EUR 205 700

GLIWA GMBH KNOW-HOW IN EMBEDDED SOFTWARE  Germany
DOLMANNSTRASSE 4
81541 MUENCHEN

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Administrative contact: Peter Gliwa
Tel.: +498930709620
Fax: +498930709619
Contact the organisation

EU contribution: EUR 196 500

RAPITA SYSTEMS LIMITED  United Kingdom
ATLAS HOUSE OSBALDWICK LINK ROAD
YO10 3JB YORK

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Administrative contact: Guillem Bernat
Tel.: +44 1904 567747
Fax: +441904 56 7719
Contact the organisation

EU contribution: EUR 265 248

Subjects
Electronics and Microelectronics - Information Processing and Information Systems - Information and communication technology applications - Telecommunications

Last updated on 2017-04-13
Retrieved on 2019-04-17

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