

## Starting EPC thread 6

Joint knowledge development within parallel/reconfigurable computing

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# Background: project specification

## Goal

To give key personnel of the partners up-to-date knowledge of important trends, developments, research results, industrial products, methods and tools.



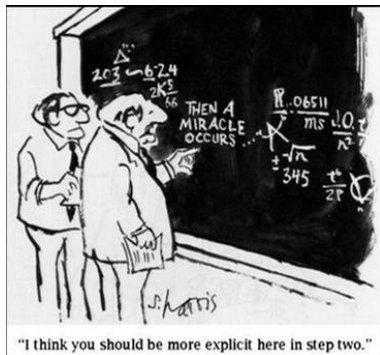
This thread will develop and run a joint advanced course/seminar in **parallel/reconfigurable architectures, programming models and application examples.**

The course will provide an understanding and overview of **recent and ongoing research, commercial trends, markets and application areas.**

The course will also provide hands-on experience with at least one language/tool for parallel/reconfigurable computing.

# Goal for today's discussion

- Agree on the kind of activities
- Decide on form and content for a couple of activities
- Decide who takes responsibility for each of the activities



# A variety of forms

## Long Low Intensity

Basic knowledge, creating a common vocabulary and knowing the same techniques. Follow a book and maybe guest lectures to complement.

Targetting a wide audience, more hand-on parts can be taken by PhD students and engineers.

Organized by both companies and university staff.



## The art of multiprocessor programming

New but strong, strong authors, strong fora (MIT, MIT professional institute, PhD schools), wide audience. Can be complemented with Erlang, Distributed datastructures.

# A variety of forms

## Short high intensity

More specialized knowledge.  
Based on papers, reports,  
completed with a project.

Could work as PhD courses  
also taken by engineers and  
researchers at companies.

Organized either by companies  
or staff.



## Programming in a new paradigm

Functional, object oriented, reactive  
objects.

## Understanding an application

Could be baseband processing, radar  
signal processing.

# A variety of forms

## One day courses

Learning how to use a tool,  
more of a tutorial character.

Suitable for PhD students and  
engineers, both as audience  
and as teachers.



## Example list

- Modelling in Ptolemy
- Programming in Occam
- STM in Haskell
- Programming PS3
- ...

# Discussion

