

Project Number: IST-2001-33234  
Project Acronym: PEPITO  
Title: PEer-to-Peer Implementation and TheOry  
First progress report on resource control design (report)  
Subworkpackage WP 3.3 and WP 3.4  
Due date: project month 12  
Delivery Date: 2003-04-11  
Responsible Partner: INRIA  
Participating Partners: INRIA, UCAM

Deliverable no:	D3.3
Title:	Resource control design
Workpackage no:	WP3
Due date:	project month 12
Delivery date:	project month 16

Short Description

The deliverable reports the project's results relevant to the Resource Control aspects of WP 3: Programming languages and Systems.

The report describes the goals and motivation of our approach to Resource Control, and the relation to other tasks in PEPITO. It provides a survey of current state-of-the-art, and a list of our main contributions during this year. The results of the project in this deliverable are mainly based on three main contributions: a calculus for safe dynamic access to resources, based on the Join Calculus; a calculus for controlling communication even in the presence of mobile agents, the M-calculus; a theory of type-safe marshalling in the presence of abstract data types and fancy module systems.

This work corresponds to 2 publications in international conferences (POPL, IFIP/TCS), and a paper submitted in 2003.

Partner owning:	INRIA, UCAM
Partner contributing:	INRIA, UCAM
Available to:	Public