

Comments and Completiong of ARTES/PAMP-application 9905-4

Software Distributed Shared Memory – Scalability and New Applications

(former name: Software Distributed Shared Memory – Scalability and New Applications)

Mats Brorsson

Department of Information Technology, Lund University
P.O. Box 118, S-221 00 LUND, Sweden
email: Mats.Brorsson@it.lth.se

August 3, 1999

1 Summary of revisions and completions

A revision of the project proposal is submitted together with this description. The proposal has been reduced and is more focused towards the design and scalability of software DSM for simple platforms such as the ones found in embedded computer systems.

The proposal has been reduced to one student only.

2 Specific comments to decision and reviewer comments

2.1 To extensive development of experimental equipment

The processor cards will be delivered as complete cards by Axis Communications AB. No significant hardware development will be carried out within the project.

2.2 To much experimental activity

The study of computer systems is inherently experimental. There are no useful models available and the international research community in the area of software DSM is heavily focused on experimental performance evaluations. No results are published on purely theoretical studies and it is therefore necessary with a good experimental platform.

Formely, this platform could consist of a system simulator. This is no longer possible because of the requirement of the size of applications used in performance evaluations, especially when large-scale systems are to be studied. Simulations can at best be used as a complement to experiments on real hardware.

2.3 Support for equipment is not supported by ARTES

This is understood and the needed extra equipment will therefore be provided for by Axis Communications, not through ARTES/PAMP-funding.

2.4 Letter of support from Axis not signed

The reviewer must have seen the on-line version and not the original sent by postal mail which indeed had both logotype and signature.