

A Simple Process Abstraction and Communication Pattern

Imre Piller

Institute of Mathematics, University of Miskolc

`piller.imre@gmail.com`

In software systems the communication methods have crucial importance. This paper introduces a communication pattern and a corresponding process abstraction.

The proposed approach results a system which shows many similarities with mikrokernel based operating systems. The adaptation of the model to lower level implementation has advantages in the aspect of performance and overall system design also. From these reasons we need to discuss extensibility and scalability of these systems ([1], [2]).

We assume that clean design makes the system development and maintainance easier without performance penalties.

References

- [1] Leendern van Doorn: *The Design and Application of an Extensible Operating System*, PhD thesis, Vrije Universiteit, Amsterdam, 2001.
- [2] Volkmar Uhlig: *Scalability of Microkernel-Based Systems*, PhD thesis, Universität Fridericiana zu Karlsruhe, Dresden, 2005.