



Syllabus

ALaRI

Master of Engineering in Embedded Systems Design

University of Lugano

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PERFORMANCE EVALUATION

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Dates of the course

Second Quarter, January 2002, 18hours

Overview of the course

The key factors that have the largest impact on the performance of a computer system will be analyzed. The influence of the relative sizes of different types of memories, i.e., RAM, caches, disks, on the performance of the system is investigated through some simple simulation models. Notions of parallel processing techniques and of the improvements achievable with their implementation are given.

The basic concepts of queuing network models are also reviewed.

Notes on the Instructor

After a remarkable business career Dr. Serazzi started a university career. From 1991 he is a university professor of Processing Systems at the Milano Politecnico. Previously he has taught at the Department of Mathematics of the University of Pavia and at the Department of Information Sciences of the University of Milan. He has been a visiting professor at several foreign universities. Dr. Serazzi's research focuses on topics in the architectures and the appraisal of the performances of the computer science systems, Intranet, Internet, Web sites and the high performance systems. He has been the author and co-author of numerous articles on these and other topics.