

ARTES project 0005-19
2000-06-09

Support letter for the project: RATAD - Reliability And Timing Analysis of Distributed systems

Datex-Ohmeda develops complex computer based medical devices such as ventilators (respirators). The systems have very high demands on reliability and safety. There are strict requirements on certification for this kind of equipment. We have to be certified by organisations like FDA in the US. They are putting more and more attention on how the computer control system is designed, verified, and maintained.

Our systems have high demands on fulfilling their timing requirements. Today we verify the timing constraints via testing, which is a tedious and costly process. When we were informed about this project, we immediately saw the possibility to improve the analysis of the timeliness and reliability of the system via simulation.

Further, we believe that the proposed project can be extended to comply with many different kinds of commercially available RTOS, including the one we are using. Hence, we strongly support the project and are willing to evaluate the results by applying it to some of our product development.

 **Datex-Ohmeda**



Mårten Larsson