



PRESS RELEASE

Section : Communication processors
High performance data networks
On-board real time systems
Key words Speed / Secure transmission
Sophisticated processing general purpose

Subject : Promising technology for on-board real time data transmission

Dassault Aviation tests Arion Enterprise's Arion-100 communication co-processor

Concurrent to the official launch of **Arion-100**, the new generation of general purpose, real time communication co-processors developed by the young French company **Arion Enterprise**, the first phases of test and validation of this innovative concept by industrial users has been announced. Indeed, the co-processor is being put through its paces by hi-tech companies involved in critical data transmission applications.

Dassault Aviation is currently testing the **Arion-100** as a means of communication and synchronisation of a PC cluster in a global simulation model. The model represents, on a smaller scale, an operational real time data communication environment identical to that, which would function between the different systems on-board an aeroplane. The objective of these tests is to thoroughly verify and measure the functionality (in terms of both technical and service performance levels) of the co-processor and will take into account : throughput speed, data volume, data integrity, mechanisms and performance of PC synchronisation, automatic reconfiguration, etc

" We decided to test the **Arion** co-processor because we believe the technology employed to be very promising for controlling on-board real time data communication. So far the results of our tests are very encouraging ", underlines Jean-Claude Arnoux, Technical Director of Dassault Aviation.

In fact, the on-going tests together with regular validation phases will enable the Dassault engineers to push the **Arion-100** to its limits in terms of speed, data volume, and the constantly evolving real time constraints! Pushing the co-processor to break point is the best way to obtain - by a comprehensive understanding of the co-processor's capacity – the optimal control of information exchange generated and managed by the co-processor. Communication security as well as that of the application must be maximal, as should be the transfer speed in the absolute respect of true real time. So many fundamental technical considerations take on all their importance when we take into account the timing constraints involved in the smooth running of an aeroplane in full flight.

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During the RTS Embedded Systems 2006 Trade Fair (4-5-6 April Cnit La Défense), The **Arion-100** communication co-processor will be launched in a "world first" for specialists of on-board and real time computer systems.

About the Arion-100 :

Based on an innovative “object” architecture and a distributed virtual MMU for use in the field of data communications, the Arion-100 co-processor is designed for applications in the domains of industry, telecommunications, aeronautics, transport, etc, where speed and security of data transmission between distributed computers, or between applications, whether they be remote or running in the same machine, are fundamental to correct operation.

Arion-100 provides an original technical solution where, until now, no method of communication (even in the automobile or aeronautic sectors for example) has proved satisfactory, due to lack of performance and/or reliability. Among other features, the Arion-100 allows increased data exchange rates between processors whilst guaranteeing the determinism, and can also free itself from both the constraints of classic communication protocols (Ethernet, Profibus, CAN...) and the type of network used...

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