Subject: Re: Is SADC data always time ordered ?
Posted by Walter F.J. Müller on Tue, 04 May 2004 18:09:20 GMT

Simple example:
two data streams with time ordered hits enter a multiplexer and the output should be one data stream with time ordered hits.
the obvious algorithm is to inspect both inputs, and copy the hit with the newest time stamp to the output.
In this scheme I have to buffer the data over a time given by the lowest hit rate of an input channel. So there is an obvious interest to guarantee a lower limit for the effective rate of time stamps coming in. So it is not just a question of monitoring system behaviour.

So I wonder how the multiplexing in strict ascending order is done. What happens, when one SADC doesn't have a hit for 10 seconds, while another runs at high rate ?