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Subject: Re: list of variables going into the offline conditions database

Posted by [Ken Oyama](#) on Fri, 15 Dec 2006 09:12:29 GMT

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Hello Dariusz,

If you want to reduce the number of items:

1. Clock frequency is fixed to be 10.02 MHz and it will never change .
2. status byte of pad is not necessary to be such big. I think pad status will not have more than 10 states. 4 bits (16 states) are fine. I would put the pad status information into MCM status by extending number of MCM status bits to be 64 bits for example. It is better also because "pad status" normally related to ADC status. MCM has 21 ADC channels but if you say "pad", it can contain only 18 channels. How about to use  $21 * 4 \text{ bits} = 48 \text{ bits}$  out of 64 bits of MCM status bit?
3. FEE gain also required to have ADC granularity, means 21 channels per MCM. Therefore it can also be included into MCM status by extending MCM status more. It can not be chamber-by-chamber because we will probably apply lower gain for higher noise pads.
4. What is ADC thresholds? Perhaps it should be more precisely defined?

best regards, Ken

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