

ATLAS NOTE

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Bench test of VMM2 mini-1 boards

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Abstract

We have investigated the performance of the VMM2 ASIC. Results are presented, some already known and some not.

1 Introduction

We present results of a bench test of the VMM2 readout electronics performed at Harvard. Most of the results have been shared with some of our BNL colleagues who designed the ASIC. They helped us to start on the right foot, contributed to the understanding and resolution of a number of issues we found, and hence we all sign this note.

We begin with a description of the VMM2 architecture. Most details are known to most people working on the NSW upgrade; however, we want this note to be also a *vade mecum* for new students. We did not spend much time probing the VMM2 analog part because it is almost equal to that of the VMM1 which we investigated at length in Refs.[1]. Calibrations of charge and timing for two different VMM2 chips are described in Section 2.

Most of our studies were dedicated to the new VMM2 features, namely the on-board ADCs, the FIFO memories, and the token logic used to extract the stored informations. The new parts have some problems which are described in Secs. 3 to 5.

1.1 VMM2 architecture

The VMM2 is composed of 64 channels, each providing charge and timing information. The functionality of the VMM2 is detailed in Refs. [2] and [3]. Appendix A provides a few additional tips for beginners. A basic logic diagram is shown in Figure 1. For each channel, the chip contains an analog section with

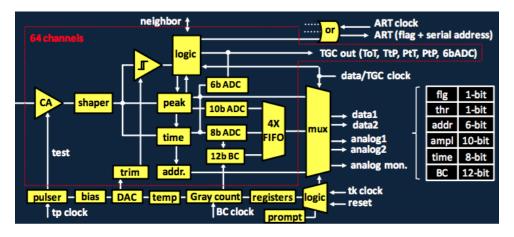


Figure 1: Architecture of the VMM2 ASIC.

a selectable-gain charge preamplifier and a high-order DDF (delayed dissipative feedback) shaper with a peaktime selectable from 25 to 200 ns ¹. The shaping amplifier is followed by a discriminator with a threshold value common to all channels with the additional option of fine trimming the threshold of each channel. The voltage output of the shaping amplifier, referred to as the PDO, goes to a peak detector (armed by the discriminator).

The detection of a peak starts the TAC ramp for this channel. In continuous mode, TAC ramps are stopped by the falling edge of the next pulse of the bunch cross clock, referred to as CKBC ². The number of CKBC cycles elapsed till the TAC stop are recorded in a 12-by Gray-code counter. The scale of the TAC ramp is selectable and in our test we use the 500 ns scale. The ASIC can operate in three modes: direct output, two-phase/analog, and continuous/digital. We operate the VMM2 in continuous mode, in which the PDO and TDO signal are digitized by the on-board 10-bit and 8-bit domino ADCs,

¹ The analog output of the shaping amplifiers can be monitored one channel at the time.

²TAC ramps are stopped by the falling edge of ENA in two-phase mode.

respectively. At the end of the ADC conversion, the ADC counts are stored in a 4-level deep FIFO together with the channel address, Gray-code counter content and some ancillary information. A timing diagram detailing the storage of a channel information is shown in Fig. 2. The FIFO content is read out

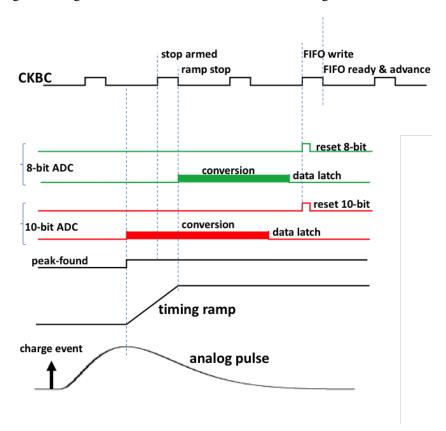


Figure 2: The channel recording scheme.

by the data acquisition system through a token-passing scheme, described Appendix C, which makes use of two clocks: CKTK, which advances the readout token to FIFO elements with data; and CKDT, which clocks out the FIFO content of channels with information.

For data acquisition, we first successfully used a GLIB [4] evaluation board instrumented with an Arizona SF-6 mezzanine card [5]. Later, to be in syntony with BNL colleagues, the test we will describe were performed using the BNL CDAQ board with a Labview GUI. This GUI has two primary pages: the VMM2 Readout page, shown in Fig. 3; and the SPI Write page, shown in Fig. 4. The VMM2 Readout Page provides real time histograms of the PDO, TDO, and hits per channel, and allows the configuration of test pulses. The SPI Write page is used to set the VMM2 configuration.

2 VMM2 Calibration

This section describes our procedure for calibrating the PDO and TDO ADC scale in fC and ns per count, respectively. We tested two VMM2 chips, mounted on mini-1 front-end boards, referred to as VMM2A and VMM2B in the following. For all measurements in this section, we use a TAC slope of 500 ns, gain of 9 mV/fC, peaking time of 200 ns, and coarse threshold DAC of 250.

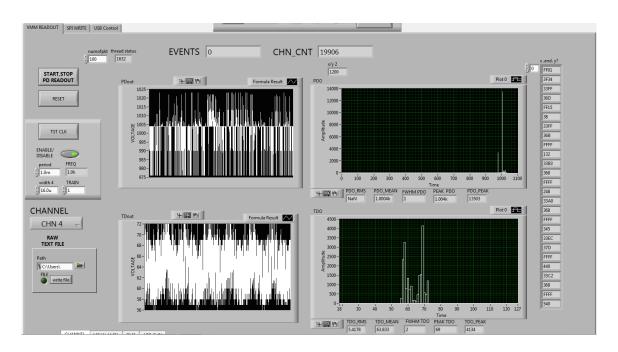


Figure 3: The VMM2 Readout GUI page.

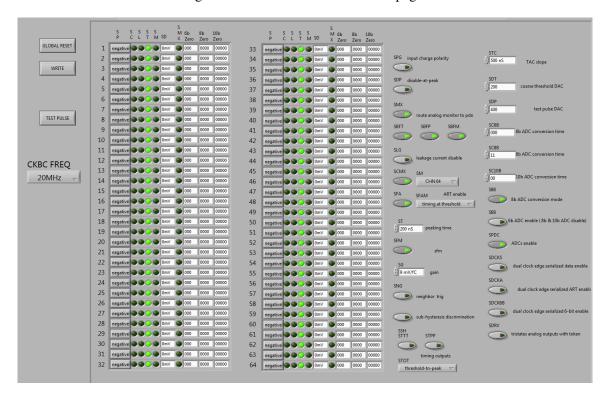


Figure 4: The SPI Write GUI settings used in our tests. Note the S8B=1 setting which makes the 8-bit ADC conversion time shorter than that of the 10-it ADC (see the diagram in Fig. 2).

2.1 Channel Pedestals and Thresholds

The pedestals and thresholds of each individual channel have been measured with an oscilloscope using the monitor channel and the appropriate SPI settings shown in Fig. 4. The DAC step pulse is viewed

on Channel 2, with SCMX and SBFM set low. The measurement of pedestals and thresholds requires SCMX high and SBFM high and low, respectively. The individual channel SMX set low and high for reading pedestals and thresholds, respectively. The pedestals and thresholds are shown in Figs. 5 and 6 for VMM2A, and in Figs. 7 and 8 for VMM2B.

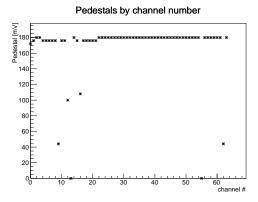


Figure 5: VMM2A pedestals by channel.

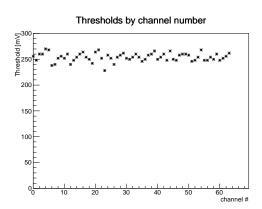


Figure 6: VMM2A thresholds by channel.

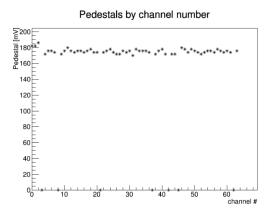


Figure 7: VMM2B pedestals by channel.

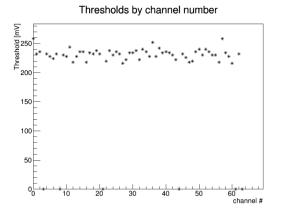


Figure 8: VMM2B thresholds by channel.

The scatter of channel-to-channel values is similar to that of the VMM1 as well as that of the differences between pedestals and thresholds. The range of the threshold fine adjustment is the same as in the VMM1, making it is plausible that the minimal thresholds for MIP will still vary between 2 and 6 fC as it was the case for VMM1 [1].

2.2 DAC Calibration

The charge measurement is calibrated by sending step pulses, the value of which is determined by a DAC, to the charge amplifier via a 1.2 pF capacitor. The VMM1 DAC response is nonlinear. To check the linearity of the DAC output voltage height vs input count, we select several values of the input DAC ranging from 80 to 200 and measure the height in mV of the resulting pulse with an oscilloscope. We then fit a straight line to the resulting graph, and use the fit parameters to convert DAC counts into injected-charge values. These fits are shown in Fig. 9. We note the DAC response is more linear then in the VMM1; however, the 2 chips respond differently. Because the DAC outputs differ from chip to chip, PDO calibrations in the experiment will be possible only if the DAC output of each chip can

Pulse Height vs. DAC counts VMM2A VMM2B Output DAC counts

Figure 9: DAC output vs. input.

be re-routed to an external calibrated ADC. In the following sections, we show the results of the 10-bit (PDO) and 8-bit (TDO) calibration for the VMM2A chip.

2.3 PDO Calibration

We send test pulses to all 64 channels using 5 different DAC values (80, 100, 120, 140, and 150). The calibrated DAC output is converted into an injected charge which is then compared to the ADC counts. An example is shown in Fig. 10. Each histogram is fitted with a straight line. The pedestals and slopes

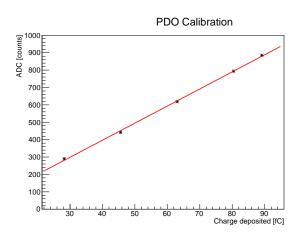


Figure 10: An example of the PDO calibration, for one channel.

of the fits for all working channels are shown in Fig. 11.

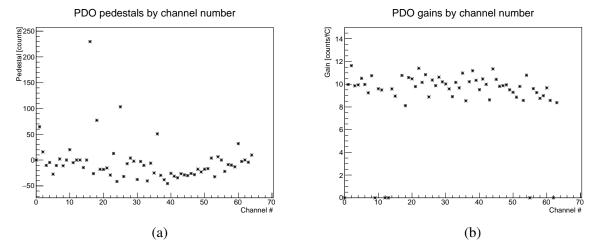


Figure 11: PDO ADC pedestals (a) and slope/gain (b) by channel.

2.4 TDO Calibration

The determination of the arrival time of a micromega pulse is crucial for the μ TPC method, and requires an accurate calibration of the 8-bit ADC scale. As far as we know, no attempt has yet been made to calibrate the TAC ramp and the 8-bit ADC. The reason is that, using the VMM in continuous mode, it is hard to delay a test pulse with respect the CKBC clock.

In this first attempt, we use the feature that the TAC ramp is armed at peak found and stopped at the falling edge of the next CKBC pulse. By reducing the CKBC frequency from 20 mHz to 10 and then 5 mHz, we delay the TAC stop by 25 and 75 ns. At the same time, when scaling down the CKBC frequency, one increases the total width of the TDO distribution from 50 to 100, and 200 ns.

We calibrate the 500 ns TAC scale by fitting with a straight line the ADC counts corresponding to the beginning and the end of the time distribution for the 3 different frequencies with respect to the beginning of the 20 mHz distribution set arbitrarily at 25 ns. An example of ADC calibration for 1 channel is shown in Fig. 12. Pedestals and slopes for all channels are shown in Fig.13. The 8-bit ADC is well behaved.

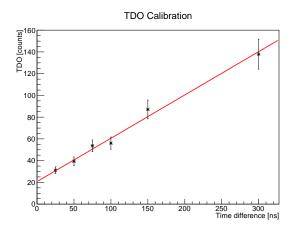


Figure 12: An example of TDO calibration, for one channel. Errors come from the uncertainty in estimating the beginning/end of each TDO distribution.

Since the experiment will use a TAC scale between 32 and 64 ns, a different calibration method is in order, and we are working on this.

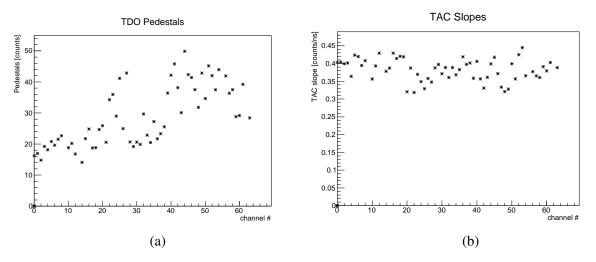


Figure 13: TDO ADC pedestals (a) and slope (b) by channel.

3 Loss of the ADC LSB

It is a known fact that in some chips or channels the 10-bit and 8-bit ADC lose the least significant bits (4 and 3, respectively) [6]. This effect for VMM2B is illustrated by Fig. 14.

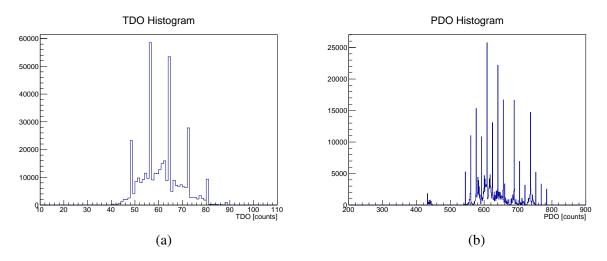


Figure 14: Distributions of the 10-bit (a) and 8-bt (b) ADC counts when test-pulsing all 64 VMM2B channels. All channels are included in these distributions.

The ADC architecture is described in Appendix A. PDO (TDO) voltages are converted into currents, and compared to reference currents of 6 (5) cells which scan the maximum expected current in 6 (5) steps (MSB) for the 10(8)-bit ADC. Once the signal current is located into a cell, the lower reference current of this cell is subtracted, and the difference is compared to 4 mini-cells (LSB). each a quarter (third) of one main cell. As clearly explained in Ref. [2], at the moment of the subtraction, spikes in the voltage-to-current conversion of the PDO (TDO) force the domino ADC to subtract the reference current of an higher cell thus yielding LSB=0.

4 Corruption of the token-passing logic

It is well known that the VMM readout often outputs replicas of a channel information. However, this issue has not been thoroughly investigated. All VMM chips suffer of this problem which is not endemic, but develops when operating the chip for some time; this time varies from seconds to hours depending on the chip, the chip SPI configuration, or the frequency of the input signal. Figure 15 shows the number of accumulated hits per channel before and after this problem occurs. In this case, we are test pulsing all 64 channels with a 1 Hz frequency. One notes that some channels have extra hits (replicas) but some

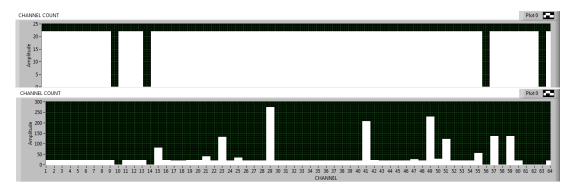


Figure 15: number of hits accumulated in each channel with (top) normal and (bottom) corrupted token logic.

channel lose hits. This is better understood by inspecting the two files of data in Appendix B. The first file shows the 64 channel content when the VMM works properly. The second file is written when the VMM stops working properly. One sees replicas of the same channel which usually - but not always-occur when the token is passed to the previous instead of the next channel, as it should be. One also sees that bunches of channels are read again after many events. Some events consists of only a few channels because, even with a 1 Hz test-pulse frequency, the 4-level FIFO may become completely filled when not read, and information is lost.

This problem is caused by parasitic impedances that drag the phase of the token used to readout the FIFO content. Reference [3] does not describe the token-passing scheme which is detailed in Appendix C. In a few words, the token-passing logic is like a hamster, the token, wheel with 64 steps. The hamster goes around the wheel 10⁷ times per second (advanced by the CKTK clock) asking the FIFO of each channel if there are data to read; if there are data, CKTK comes to a screeching halt, data are read out using the CKDT clock, the writing and output points of the FIFO are updated, CKDT ends, and CKTK starts moving the token again. Because of the parasitic impedances the token loses its synchronization with CKTK, and *stuff happens* as shown in Appendix B.

We did notice that re-downloading the SPI configuration re-establishes the token synchronization. Since the token-logic is also regenerated with the so called soft reset, we have modified the FPGA firmware so that, once a channel info is read out, if no data 0 flag appears after 40 CKBC cycles, a soft reset is issued. In other word, we issue a soft reset each time a complete event is read out. This adds the time to read out 1/2 channel to the readout latency. With this simple fix, the VMM chips work for weeks without losing synchronization. The firmware fix has been sent to all interested parties.

5 Update of the FIFO writing point

A problem was discovered when studying the VMM2 response to high rates by test pulsing all 64 channels with increasing frequencies. Actually, the gain sags for frequency higher than 100 kHz, but is not an immediate concern of ours because we will use MMFE-8 boards with cosmics to commission the trigger. During this test, we noticed that, if a second test pulse was coming before the 64 channels were all read out, the non-read channels were overwritten by the second event. We made the test even simpler by firing only one channel with a train of 4 pulses with decreasing spacing, as shown in Fig. 16. In the situation of Fig. 16 (b), the second pulse overwrites the first. As explained in Appendix C, the FIFO writing and output points are updated after after the FIFO is read out. They should be updated when the FIFO is written; this will be fixed in the VMM3 version.



Figure 16: Scope display of the input test pulses and CKTK when the next test pulse arrives (a) after and (b) before the first pulse has been read out, as indicated by the start of CKTK.

6 Conclusion

We have tested a couple of VMM2 chips mounted on a mini-1 board. The analog part of the new ASIC has not changed much, and we see no improvement or degradation. We mostly studied the response of the new additions, i.e. the on-board ADCs, the 4-level FIFO, and the token-passing circuitry. We rediscovered known issues, such as the loss of the ADC less significant bits and the loss of synchronization of the token-passing logic. However, we found a firmware fix for the latter problem. We also found a bug in the method of updating the FIFO writing and output points.

References

- [1] J. Connors *et al.*, ATL-COM-UPGRADE-2013-019, ATL-COM-UPGRADE-2013-023, ATL-COM-UPGRADE-2013-034, K. DiPetrillo *et al.*, ATL-COM-MUON-2014-038.
- [2] G. De Geronimo *et al.*, https://indico.cern.ch/event/287628/session/4/contribution/33/attachments/535406/738187/ACES_2014_VMM2_fin.pdf.
- [3] https://twiki.cern.ch/twiki/pub/Atlas/NSWelectronics/VMM2_datasheet_v16. pdf.
- [4] https://espace.cern.ch/project-GBLIB/public.
- [5] The SF6 mezzanine, its firmware as well as the GLIB firmware was kindly provided by K. Johns.
- [6] G. De Geronimo, https://indico.cern.ch/event/447077/VMM_Sept_2015.pptx.

- [7] ATLAS New Small Wheel Technical Design Report, ATLAS-TDR-020, CERN-LHCC-2013-006
- [8] T. Alexopoulos et al., Performance of the first version of VMM front-end ASIC with resistive micromega detectors, ATL-UPGRADE-PUB-2014-001

7 Appendix A: VMM2 tips

- When reading a mini-1 board through a CDAQ card, download the firmware directly into the fpga, not into the eprom the latter download does not work.
- The 8 and 10 bit ADCs use a clockless duak-stage-current mode architecture. In a first pass, the 10-and 8-bit ADCs determine the 6 and 5 most significant bits of the peak and time values, repectively. On a second pass, the last LSB (4 and 3, respectively) are determined. The conversion times for the two passes are approximately 200 and 100 ns, respectively. The conversion time allocated to each of the two passes can be increased by 60 ns by setting monostables with the registers sc10b01 and sc10b10 for the 10-bit ADC, and sc801 and sc810 for the 8-bit ADC. It is useful to avoid that the 10-bit ADC reset the data before the 8-bit ADC has latched them into the FIFOs.

The bit s8b accelerates the 8-bit timing ADC conversion by starting the process at the start of the timing ramp, rather than at its stop to further alleviate the above mentioned problem.

• Page 13 of the ic134 document describes two types of VMM reset:

The soft (acquisition) reset clears the gray-code counter, the token passing logic, the FIFO control logic, the FIFO content, the channel control and discrimination logic, and the peak detector.

The hard (global) reset clears the counter memory, the channel data memory (in normal operation both memories are loaded in the FIFO at the completion of each event), and the configuration registers.

8 Appendix B: Examples of data before and after the token loses synchronization

We first show a few events taken with the token logic fully functioning. We test pulse all 64 channels at a frequency of 1 Hz; the string of 64 infos is read out in less than 200 μ sec so that when the next test pulse arrives, the FIFO should be empty.

BCID CH PDO TDO 1106		
1106 1 528 25 3 12	1525 0 432 32 3 12	3732 0 432 27 314
1111 2 560 29 3 255	1527 1 528 27 3 255	3732 1 544 32 3 255
1111 3 459 32 3 255	1527 2 560 24 3 255	3732 2 560 32 3 255
1111 4 464 32 3 255	1527 3 454 30 3 255	3732 3 455 33 3 255
1106 5 471 31 3 255	1527 4 464 32 3 255	3732 4 464 31 3 255
1111 6 456 34 3 255	1527 5 466 33 3 255	3733 5 468 29 3 255
1111 7 438 33 3 255	1525 6 448 38 3 255	3732 6 451 35 3 255
1111 8 496 33 3 255	1527 7 439 32 3 255	3732 7 448 38 3 255
1106 10 480 24 3 255	1527 8 493 32 3 255	3732 8 497 37 3 255
1111 11 448 37 3 255	1527 10 480 28 3 255	3732 10 478 30 3 255
1111 12 149 32 3 255	1527 11 446 28 3 255	3732 10 170 30 3 255
1106 14 437 26 3 255	1525 12 149 35 3 255	3732 12 11, 31 3 255
1111 15 429 34 3 255	1527 14 442 23 3 255	3732 12 110 32 3 255
1111 16 144 38 3 255	1527 15 426 32 3 255	3732 15 418 33 3 255
1111 17 481 35 3 255	1525 16 139 43 3 255	3732 15 110 35 3 255
1106 18 480 32 3 255	1527 17 480 33 3 255	3732 10 111 10 3 255
1106 10 400 32 3 255	1527 18 480 32 3 255	3732 17 100 32 3 255
1106 20 480 20 3 255	1527 10 400 32 3 255	3732 10 403 32 3 233
1111 21 454 36 3 255	1527 20 480 30 3 255	3732 19 402 30 3 233
1111 21 434 30 3 233	1527 20 400 30 3 233	2722 21 440 32 3 233
1106 22 406 40 2 255	1527 21 440 32 3 233	2722 22 440 34 3 255
1106 24 460 27 2 25	1525 22 509 40 3 255	3/32 22 512 40 3 255
1111 25 544 40 2 255	1527 24 470 26 2 25	3/33 23 490 40 3 255
1111 25 544 48 3 255	1527 24 470 36 3 255	3/32 24 4/0 40 3 255
1111 20 401 30 3 255	1525 25 544 51 3 255	3/32 25 528 48 3 255
1111 20 512 22 2 25	1525 20 448 40 3 255	3/32 26 455 40 3 255
1111 28 512 32 3 255	1525 27 404 50 3 255	3/33 2/ 448 56 3 255
1111 29 48U 32 3 255	1527 28 512 30 3 255	3/32 28 512 35 3 255
1111 30 437 35 3 255	1527 20 422 20 2 25	3/32 29 480 33 3 255
1111 31 449 32 3 255	1527 30 432 32 3 255	3/33 30 432 32 3 255
1111 32 401 40 3 255	1527 31 448 28 3 255	3/32 31 448 32 3 255
1111 33 439 35 3 255	1527 32 416 38 3 255	3732 32 416 40 3 255
1111 34 451 29 3 255	1527 33 439 32 3 255	3/33 33 434 33 3 255
1111 35 493 40 3 255	1527 34 455 30 3 255	3732 34 448 32 3 255
1111 36 464 32 3 255	1527 35 499 38 3 255	3/33 35 496 34 3 255
1111 37 448 34 3 255	1527 36 464 32 3 255	3732 36 464 32 3 255
1111 38 496 38 3 255	1527 37 448 35 3 255	3732 37 461 35 3 255
1111 39 447 48 3 255	1527 38 488 35 3 255	3732 38 484 38 3 255
1111 40 416 56 3 255	1527 39 442 48 3 255	3732 39 444 48 3 255
1111 41 464 56 3 255	1525 40 416 56 3 255	3732 40 416 56 3 255
1111 42 439 49 3 255	1527 41 461 56 3 255	3732 41 464 58 3 255
1111 43 384 43 3 255	1525 42 437 51 3 255	3732 42 443 51 3 255
1111 44 500 64 3 255	1527 43 380 40 3 255	3732 43 380 40 3 255
1111 45 464 63 3 255	1527 44 501 64 3 255	3732 44 500 72 3 255
1111 46 436 64 3 255	1525 45 464 61 3 255	3732 45 464 64 3 255
1111 47 437 48 3 255	1525 46 434 64 3 255	3732 46 448 64 3 255
1111 48 448 40 3 255	1527 47 437 48 3 255	3732 47 440 48 3 255
1111 49 425 56 3 255	1527 48 453 40 3 255	3733 48 448 40 3 255
1111 50 420 48 3 255	1527 49 424 56 3 255	3732 49 423 56 3 255
1111 51 400 64 3 255	1527 50 416 48 3 255	3732 50 416 48 3 255
1111 52 480 56 3 255	1525 51 400 64 3 255	3732 51 400 64 3 255
1106 53 374 48 3 255	1525 52 458 58 3 255 1525 53 368 54 3 255	3732 52 459 56 3 255
1111 54 512 56 3 255	1525 53 368 54 3 255	3732 53 368 50 3 255
1111 56 432 56 3 255 1111 57 428 48 3 255	1525 54 512 58 3 255 1527 56 432 56 3 255	5752 51 512 50 5 255
1111 57 428 48 3 255	1527 56 432 56 3 255	3732 56 432 56 3 255
1111 58 405 49 3 255	1527 57 429 48 3 255	3732 57 429 48 3 255
	1527 58 400 48 3 255	3732 58 404 48 3 255
	1525 59 411 46 3 255	3732 59 410 43 3 255
	1527 60 480 40 3 255	3732 60 480 40 3 255
		3732 61 400 53 3 255
1111 0 435 31 3 255	1527 63 391 40 3 255	3732 63 392 42 3 255

The next file contains about 30 events acquired after the token-passing logic is no more synchronized with the clocks CKTK and CKDT. One sees events containing replicas of the same channel, but one can also see events in which a bunch of channels is read out multiple times after successive events events were processed, and events in which most data are lost because the FIFO are full even if test-pulsing with a 1 Hz frequency.

Data flow from top to bottom, left to right columns, and into the next page. For each string of data, the first number is the BCID which is equal within a few counts for all 64 channels fired at the same time; the second is the channel number; and the third and fourth numbers are the PDO and TDO values. The symbols * and r indicate channels read out correctly and replicas, respectively. We mark the first few events.

```
2501 18 483 37 3 255 r
2501 43 384 43 3 14 * ev 1
                                                     2501 18 483 37 3 255 r
2501 42 384 43 3 255 r
                                                     2501 18 483 37 3 255 r
2501 42 384 43 3 255 r
                                                     2501 18 483 37 3 255 r
               3 255 r
2501 42 384 43
                                                     2501 18 483 37
                                                                    3 255 r
2501 42 384 43 3 255 r
                                                     2501 18 483 37 3 255 r
2501 42 384 43 3 255 r
                                                     2181 18 483 37 3 255 r ev 2
2501 42 384 43 3 255 r
2501 42 384 43
                 255
                                                     2501 18 483 37 3 255 r ev 1
2501 42 384 43 3 255 r
2501 42 384 43 3 255 r
                                                     2181 18 483 33 3 255 r ev 2
2501 42 384 43 3 255 r
                                                     2181 18 483 33 3 255 r
2501 42 384 43 3 255 r
                                                     2181 18 483 32 3 255 r
2501 42 384 43 3 255 r
                                                     2181 18 483 33 3 255 r
2501 42 384 43 3 255 r
                                                     2181 18 481 32 3 255 r
2501 42 384 43
2501 63 391 42 3 255
                                                     133 18 483 32 3 255 r ev 3
2501 0 433 32 3 255
                                                     133 18 480 32 3 255 r
2501 1 544 32 3 255
2501 2 560 29 3 255
                                                     102 35 493 40 3 29
2501 3 456 25 3 255
                                                     103 36 464 32 3 255 *
2501 4 464 28 3 255
                                                     103 38 489 40 3 255 *
2501 5 471
           36 3
                255
                                                     102 39 444 48
                                                                     255
2501 6 451 33 3 255
                                                     102 40 416 56 3 255
2501 7 447 29
              3 255
                                                     103 41 448 56
                                                                     255
2501 8 499 32 3 255
                                                     102 42 443 50
                                                                   3 255
2501 8 499 32 3 255
                                                     102 43 379 46 3 255
2501 8 499 32 3 255
                                                     102 44 499
                                                                72
                                                                   3
                                                                     255
2501 12 149 32 3 255
                                                     103 45 464 56
2501 14 444 24
               3
                 255
                                                     102 46
                                                            437
                                                                64
2501 14 444 24 3 255 r
                                                                   3 255
                                                     103 47 435 48
2501 16 144 40 3 255
                                                     103 48 454 40 3 255
2501 16 144 40 3 255 r
                                                     102 49 424 56 3 255
2501 18 479 32 3 255
                                                     102 50 416 50 3 255
2501 19 483 37 3 255 *
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2501 18 483 37 3 255 r
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                                                            374 48
2501 18 483 37 3 255 r
                                                     103 52 374 48
               3 255 r
2501 18 483 37
                                                                     255
                                                     103 56 432 56
                                                                   3
2501 18 483 37 3 255 r
                                                     103 57 431 48
                                                                   3 255
2501 18 483 37 3 255 r
                                                     103 56 431 48 3 255 r
2501 18 483 37 3 255 r
                                                     103 56 431 48
                                                                     255
2501 18 483 37 3 255 r
                                                     102 60 480 45 3 255
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                 255 r
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2501 18 483 37 3 255 r
                                                     103 63 392 39 3 255
2501 18 483 37
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2501 18 483 37 3 255 r
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2501 18 483 37 3 255 r
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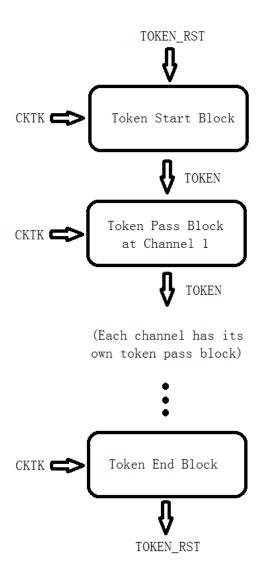
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1273	30	432	34	3	255	ev	31
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9 Appendix C: The token-passing scheme

Concise introduction to the FIFO and token logic

The 38-bit information of each VMM channel is stored into a FIFO memory. Each FIFO can store up to 4 events. There are 64 FIFOs, one for each of the 64 VMM channels. When a channel's info is stored in its FIFO, an additional flag - called flgsetrst - is asserted in the FIFO. This flag is set if at least one of the FIFO level is filled. The FIFO content is read out by a FPGA – such as the Virtex on the MMFE-8 board, or the ALTERA on the CDAQ board- which sends 2 clocks (CKTK and CKDT) to the VMM FIFO and token logic. The token logic consists, as explained in detail below, of a circular array of 64 token blocks -one for each FIFO- which are advanced by the CKTK cycle. When a token block is addressed, it checks if the flagsetrst of its corresponding channel is asserted. If not, the token passes to the next block on the CKTK cycle. If yes, the FIFO is interrogated, and sends a flag on the data0 line to the FPGA. The FPGA stops the CKTK clock and starts the CKDT clock which is used to empty the oldest FIFO info of this channel. When the 38-bit is read out, the figsetrst is cleared unless the FIFO contains additional data. Once the 38bit info is acquired, the writing and output point of the FIFO are updated. This results in overwriting events in the FIFO if the next happens before the first has been read out (see main text). Once the FPGA has read the 38-bit info, CKTK starts again, the token block moves to the next channels, and stops where a flagsetrst is asserted. Once the token block arrives to the end of the 64 channels, it goes back to the beginning

Diagram of Token Generation and Transfer

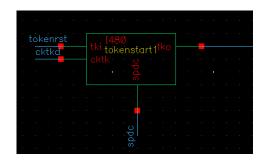


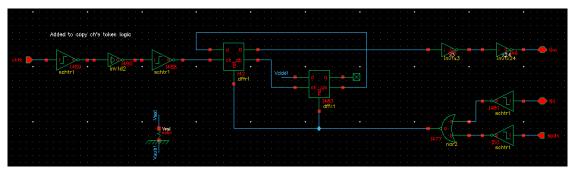
The above diagram shows the token generation and transfer scheme. The token system consists of three parts: one token start block, 64 identical token pass blocks, and one token end block. The "Token start block" generates the intial token at the rising edge of CKTK, which is passed to the token pass block at channel 1. As shown in the following section, there is a two-input multiplexer at the token pass block. One input is directly connected to the output of token start block, while the other one is connected to a D flip-flop. The multiplexer is controlled by a flag called "flgsetrst" which indicates whether there are data not read in the 4-depth FIFO. If there is no new data in channel-1 FIFO, the multiplexer makes channel 1 transparent to the token. If there are data not-yet read out in the channel-1 FIFO, the multiplexer chooses the second input so that the token stops at channel 1. However, when it stops at channel 1, the token will be regenerated at the following CKTK's rising edge and the block behaves as a token start block.

The token is passed to the token pass block of channel 2. If channel 2 has no data, it is transparent to the token. The token will stop at the channel whose "flagsetrst" is asserted. If channel 2 has data, it will be emptied as channel 1. In this way, the token is passed to channels which contain unread data. In the end, when the cycle arrives at token end block, the token end block send the token reset signal to the token start block. The token start block generates a new transfer round.

The following section describes the schematics of each block. Note: the schematics consists of basic logic blocks of inverts, D flip flops, NOR gates, and transmission gates as the symbols indicate. Although there are different types of inverts, they're all inverts logically. D flip flops resets at low; when rst=0, q=0 and qb=1; D flip flop triggers at the clock's falling edge; At clock's falling edge, q= d and qb=invert(d).

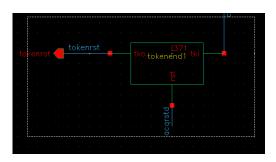
Token Start Block's Schematic

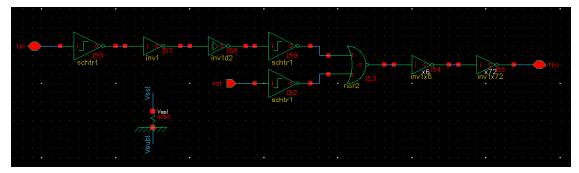




As shown, the token reset signal generated from the token end block is sent to the token start block through the tokenrst wire. It resets the two D flip flops in the token start block and sets the token to be low. At the first CKTK's rising edge after the reset, the token will be set to high thus a token is generated. On the following CKTK's rising edge before the next reset, the tko port will stay low. Thus, no additional token is generated.

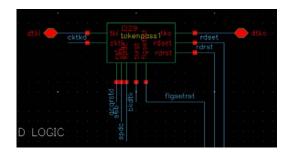
Token End Block's Schematics

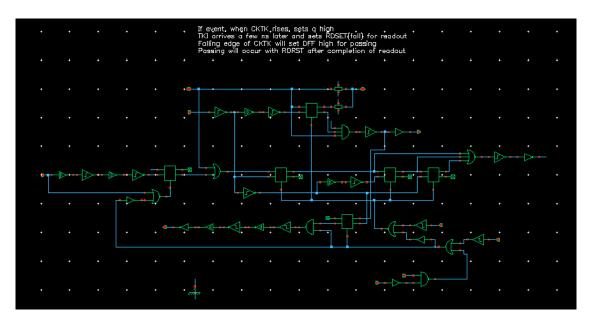




As shown, the token end block is an inverter with a long delay. As said previously, it is the termination of the token wheel. If the token stops at one channel, the tki port will always be low. Thus, the tko port which sends the token reset signal will stay high. When the token finally arrives at the token end block, the tko port becomes low, the reset signal is sent, and the token start block is reset. However, as shown in the following token pass block section, the token reset signal will not keep high all the time, since the previous token pass block will pull the token line down to be low in the following CKTK rising edge.

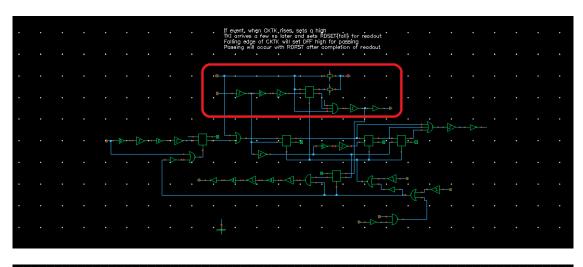
Token Pass Block's Schematic

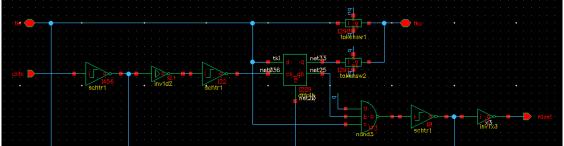




The token pass block is a bit complex. Its schematics is too complicated to be shown in one snapshot. So we divide it into two relevent parts which are separately described.

Token Pass Block's Schematic – Part 1

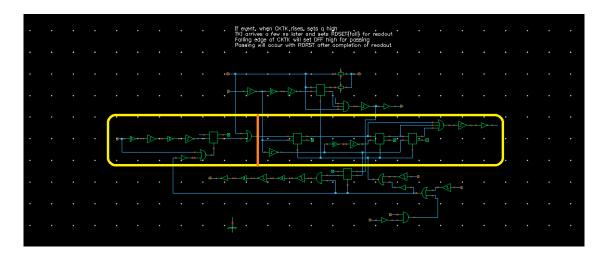


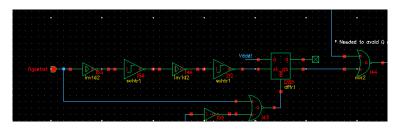


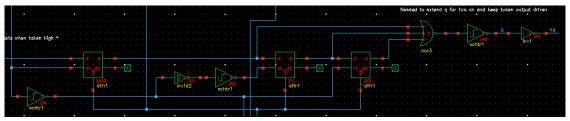
Part 1 is the upper section of the token pass block's schematic. It shows the token pass paths. The tki port receives the token signal generated from the token start block or the previous token pass block. Tokensw1 and tokensw2 form the two input multiplexer previously mentioned. They are swithes controlled by signal q and its invert nq, which will be described in part 2. One input of the multiplexer is the tki port; another input is the output of a D flip flop. When q=0 and nq=1, the first input is chosen. It's the situation where there are no data in the channel's FIFO. When q=1 and nq=0, the second input is chosen. It's the situation where there are data in the channel's FIFO. When the token doesn't arrive at a channel or the token already passed a channel, the tki port is low (Note: it becomes clear after the following explanation.). As the schematic shows, the D flip flop also outputs tki in the CKTK's rising edge. So no matter which path is chosen, the tko port is always low, which means the tki of the next token pass block is also low. When the token arrives at a channel which has data in the FIFO, the second path is chosen.

For example, the token is just generated from the token start block in one CKTK rising edge and channel 1 has data. Because of the delay in passing the toke to channel-1 tki-port, the channel-1 tko-port will still output a low signal in the same CKTK rising edge. Before the next CKTK rising edge, channel-1's tki-port will remain high; the token stops at channe 1. When the next CKTK rising edge arrives, the token is forwared to the following blocks by the D flip flop, and the channel-1 tki-port is pulled low by the token start block. That's how the token is transferred from channel to channel. The following part explains how the tokenl stops at channels which contain data in their FIFO.

Token Pass Block's Schematic – Part 2







Part 2 illustrates the middle section of the token-pass block's schematics. It's too large to be shown in a single snapshot. So it's divided into two parts. When there are data in one channel's FIFO, the flgsetrst signal is low (Note: it will stay low until all the data in the 4-depth FIFO is read out). In this situation, the nor2 gate is like an inverter whose input is the tki port. When the token doesn't arrive at a given channel or the token has already passed it, the D flip flop diffr1 will output a high signal, which means that q=1 and nq=0. As said above, the second input of the multiplexer is chosen. Thus, the token stops at this channel when it arrives.