

Dpac PM Deduction project

Arie Lashansky

Project Goals

- **To move the Dpac PM from weekly to monthly Pm**
- **To Prove the stability of the Dpac Board**
- **To have no effect on the yield**

What is the dpac Board

- **The Dpac board is a 16 bit D/A converter what is used to create the analogue input for the full ladder A/D test on product that have a A/D in process 629. The advantage is the speed that the test is done.**
- **On non P629 products the A/D test is done by levels change per channel**

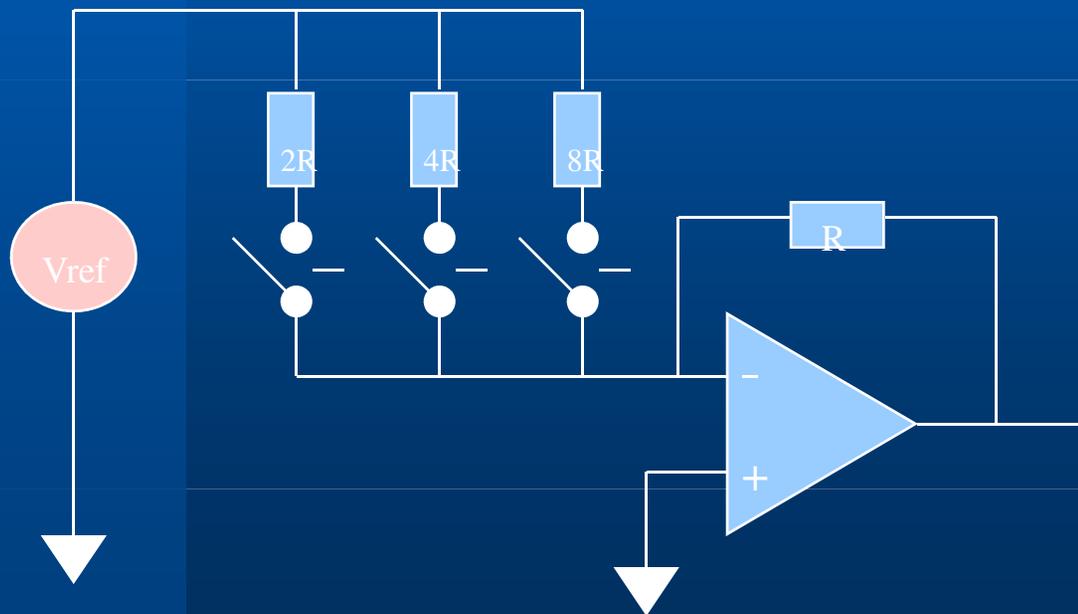
Basic D/A conversion.

- What is the dpac board and how does it work

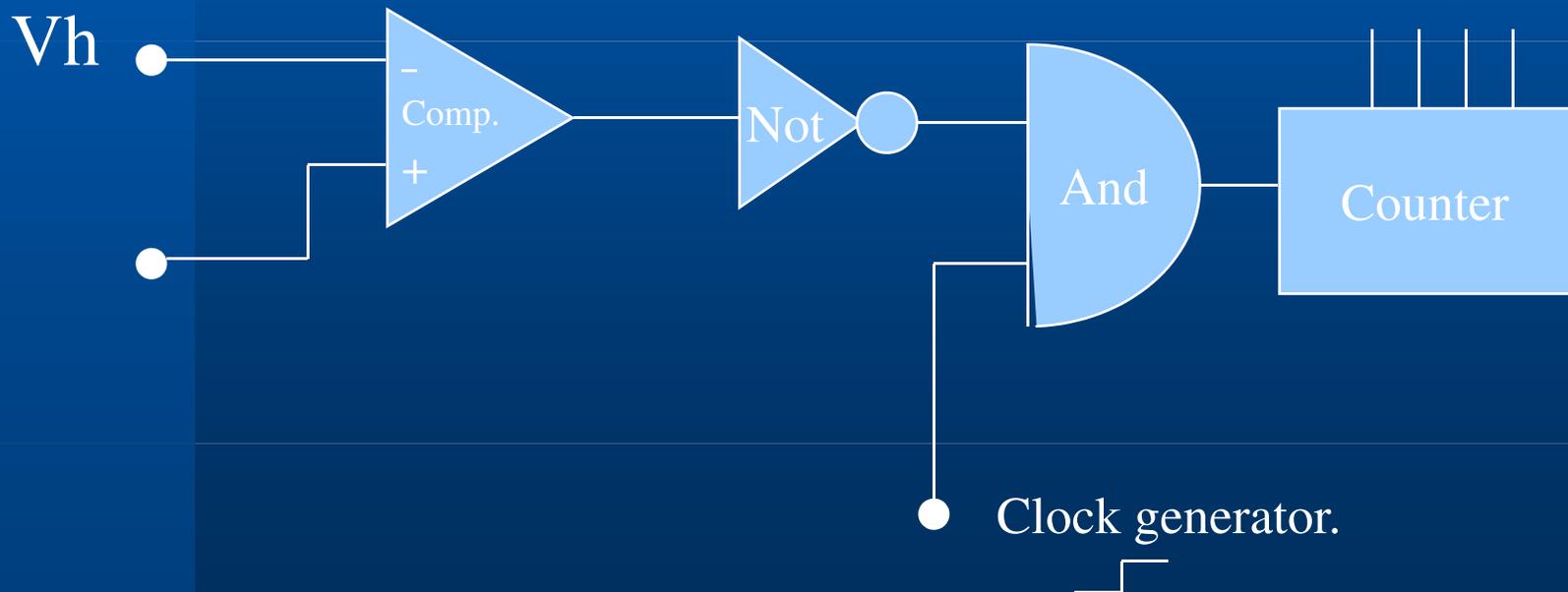
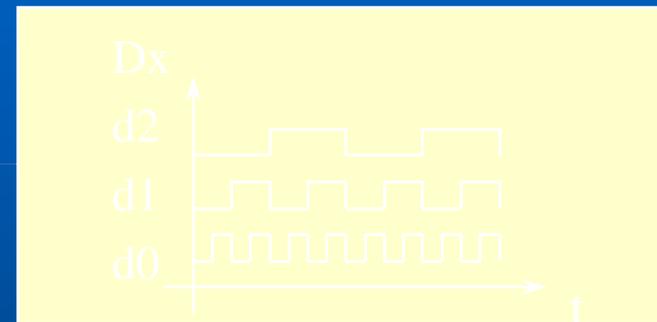
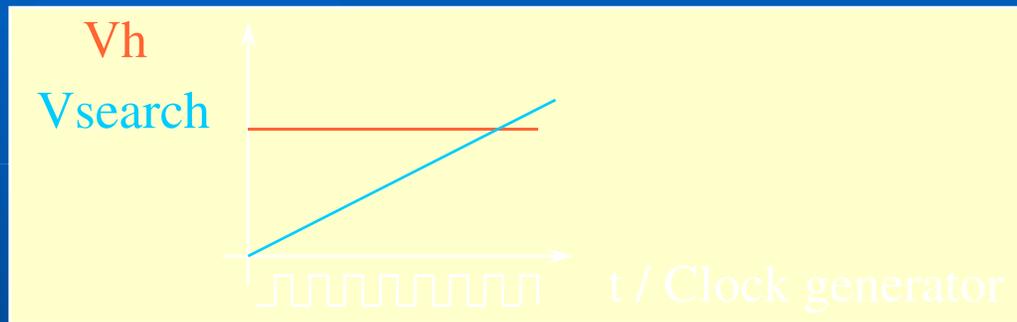
$$t0 = \frac{-0 \cdot R}{8R} = 0/8 V_{ref}$$

$$t1 = \frac{-V_{ref} \cdot R}{8R} = 1/8 V_{ref}$$

$$t7 = \frac{-V_{ref} \cdot 7R}{8R} = 7/8 V_{ref}$$



Basic D/A conversion.



Description

The project started with analysis of the Data from calibration. This took a very Long time until I got help From Raanan This was ww46 last year. From the Data we saw that the we have two types of dpac boards one were the calibration is the same each week.

TimeFrame

And a second were the data shifts each week by the same counts. We suspected that the EEPROM was not updated

WW48 last year I checked the dpac of TL11 four times each time getting the same error

WW47-WW52:Mail to MVTIS and LTX on the problem of the ERROR that does not get smaller

Work done in 2004

- We waited for a answer from LTX – MVTIS who requested that we sent the boards for repair.(not done)
- WW1-4 Work on Pilot white paper.
- WW5 White paper to SCCB on Pilot
- WW5-WW10 Pilot Run on TL01L And TL09L

Work done 2004

- **WW11 Two days off shift to input the data into a spreadsheet (pilot ww5-ww10)**
- **WW11 I asked Leonid Tunik for a his input on how to prove the project has no negative effect on yield as there was no fallout of bin 29 (A2D test)**

Yield Response

- He questioned the ROI of the whole project.(saving 4 hours each week) and running the risk of yield problems.He also told me P629 wafer sale products are not going to allow resort.

Current Status

- **The Data From the ww5-ww10 looks very good.no shift at all.**

The Final white paper requires only a Few hours work If there is a ROI for the project.