

"TouchScreen" project

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Polling the TouchScreen V0.1
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This documentation contains a small documentation for the polling.er1
of the project "TouchScreen TI6"

V0.1	2006-12-04	Initial Release
V0.2	2006-12-05	further information
V0.3	2006-12-08	Flowchart

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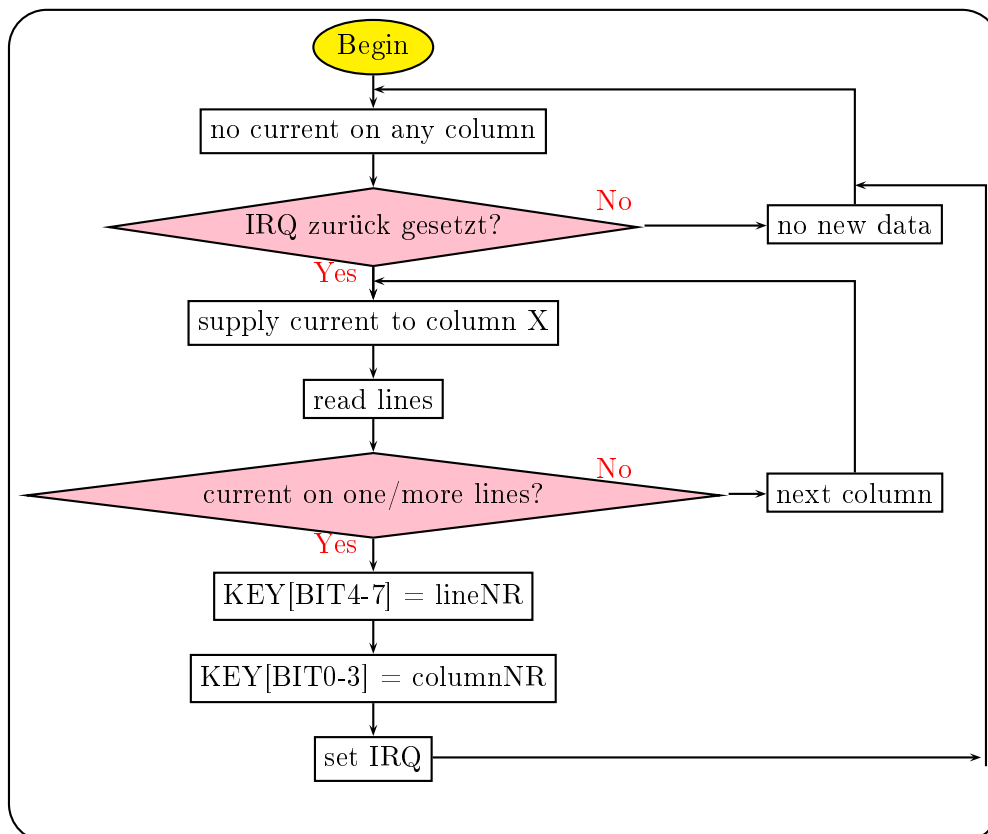
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1 Code description

The polling program has six functions. One INIT-function and one for each column of the TouchScreen. In the INIT-function everything is set to a known state. After that the function checks if the IRQ-Flag has already been unset. If not it jumps back to the beginning of the INIT-function.

Each column function sets the proper bits to connect voltage only to the current column. If the voltage can not be measured on at least one of the lines the function jumps to the next column. If voltage can be measured the number of the line(s) is saved to BIT4-7 of "KEY". The current column is saved to BIT0-3 of "KEY", "IRQ" is set and the function jumps back to INIT again.

2 Flowchart



3 Known Problems

Because of the broken device we could not test this piece of software on our board but on the simulator it worked fine.