

Beam and medium scale test

Necessary Equipment (Hardware)

- 4 or 9 Front End Boxes
 - 1 Distribution Box
(including I²C)
 - *TTC-system : TTCvi + TTCvx*
 - *1 OrxCard + 12 LVDS Adapter*
 - *2 Stratix Boards + Adapter*
 - Power supplies :
 - ± 5V / 50A
 - 2.5V / 5A
 - 3.3V / 10A
 - 3 PCs
 - 2 Scintillator + Nim crate
 - Cooling (Peltier element + CPU cooler)
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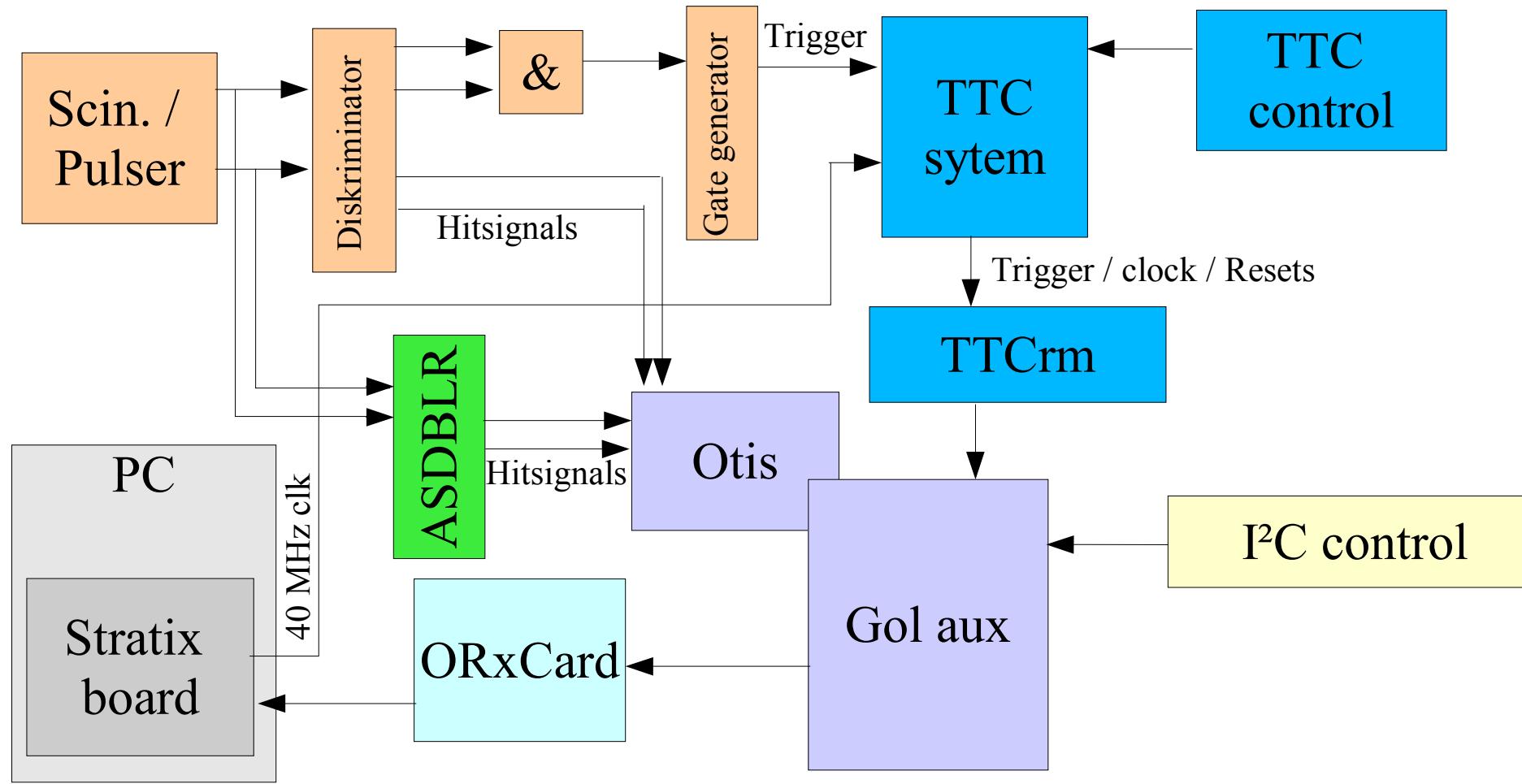
Necessary Equipment (Software)

- Stratix board code for 6 links
- Readout software for the Stratix Board via PCI-Bus
- DAQ monitoring
- I^2C control
- TTC control

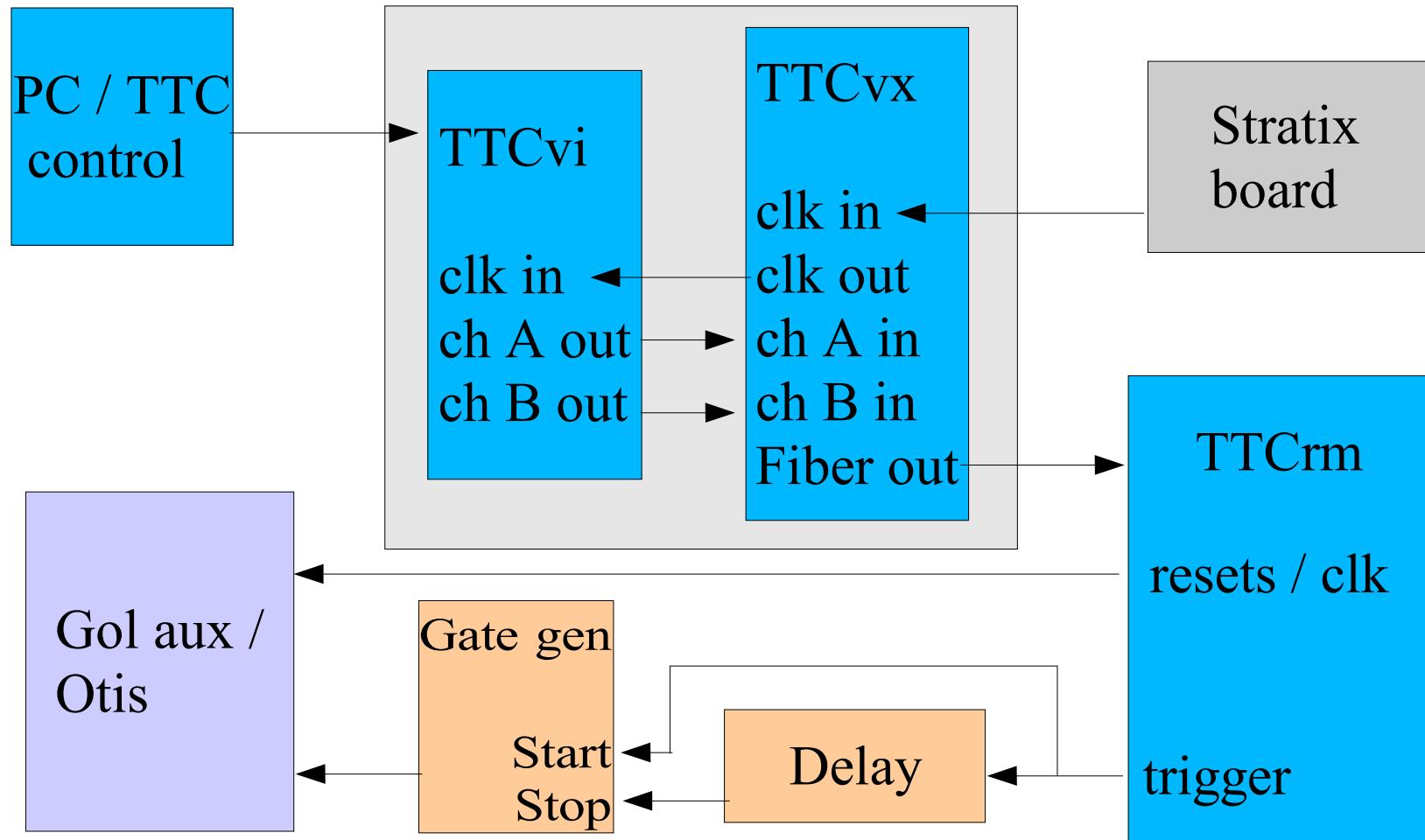
To do list

- Distribution Box (including I²C) (Nikhef)
- Stratix board code for 6 links (Dresden)
- Front End Boxes equipped with Otis 1.1 chip (Nikhef)
- Test of the DAQ with a module (HD)
- 2 Adapter for 4+2 links to Stratix board (Dresden)
- Modification of the Readout software for 2 boards in one PC (Dresden)

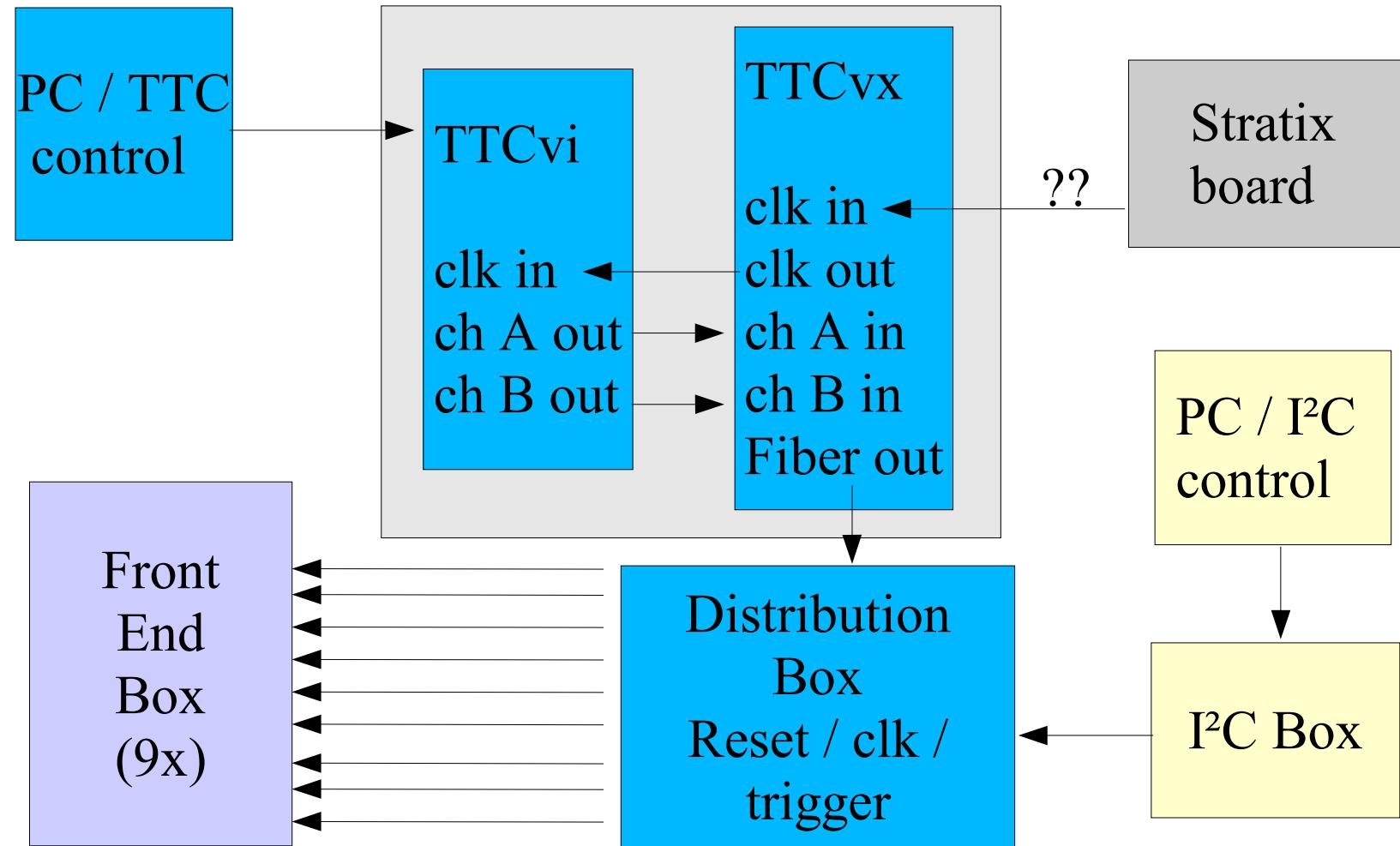
Complete readout scheme



Current TTC setup (HD)



TTC setup (MST)



I²C control

Control Panel		I ² C Status		Register View	
general call	write setup	Otis ID	send all registers	PosID0	ChannelMask0
<input type="checkbox"/> OFF	<input type="radio"/>	<input type="text" value="d8"/>	<input type="radio"/>	b1111	b0
send immediately	read setup	<input type="radio"/>	<input type="radio"/>	PosID1	ChannelMask1
<input type="checkbox"/> ON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	b0	b0
		<input type="radio"/>	<input type="radio"/>	I2CID	ChannelMask2
		<input type="radio"/>	<input type="radio"/>	d8	b0
		<input type="radio"/>	<input type="radio"/>	ChannelMask3	b0
		<input type="radio"/>	<input type="radio"/>		PBData0
		<input type="radio"/>	<input type="radio"/>		b0
		<input type="radio"/>	<input type="radio"/>		PBData1
		<input type="radio"/>	<input type="radio"/>		b0
ReadMode	Send Read Mode	DLLDAC0	DLLDAC0 [mV]	Revision	
3BX, Single Hit	<input type="radio"/>	<input type="text" value="x0"/>	<input type="text" value="0"/>	b1001	
<input checked="" type="checkbox"/> DataValid	<input checked="" type="checkbox"/> Comma	DLLDAC1	DLLDAC1 [mV]	StatusReg	
		<input type="text" value="x0"/>	<input type="text" value="0"/>	b1010	
DebugMode	Send Debug Mode	DLLDAC2	DLLDAC2 [mV]	ReceivedT	
Memory Selftest	<input type="radio"/>	<input type="text" value="x0"/>	<input type="text" value="0"/>	d0	
ServicePads		DLLDAC3	DLLDAC3 [mV]	RejectedT	
DLL Lock		<input type="text" value="x0"/>	<input type="text" value="0"/>	d0	
DLLReset	Send DLLReset	ASDDAC0	ASDDAC0 [mV]	EventID	
Off	<input type="radio"/>	<input type="text" value="d0"/>	<input type="text" value="0"/>	d0	
Latency	Send Latency	ASDDAC1	ASDDAC1 [mV]	SEUCounter	
<input type="text" value="d5"/>	<input type="radio"/>	<input type="text" value="d0"/>	<input type="text" value="0"/>	d226	
Offset	Send Offset	ASDDAC2	ASDDAC2 [mV]	ReadMode	
<input type="text" value="b1110000"/>	<input type="radio"/>	<input type="text" value="d0"/>	<input type="text" value="0"/>	b110010	
ChannelMask	Send Channel Mask	ASDDAC3	ASDDAC3 [mV]	DebugMode	
All Channels On	<input type="radio"/>	<input type="text" value="d0"/>	<input type="text" value="0"/>	b11100000	
		<input type="radio"/>	<input type="radio"/>	DLLReset	
		<input type="radio"/>	<input type="radio"/>	b0	
		<input type="radio"/>	<input type="radio"/>	Latency	
		<input type="radio"/>	<input type="radio"/>	b101	
		<input type="radio"/>	<input type="radio"/>	Offset	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="ASDDAC0 [mV]"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="0"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="ASDDAC1 [mV]"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="0"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="ASDDAC2 [mV]"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="0"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="ASDDAC3 [mV]"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="0"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="ASDDAC0 [mV]"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="0"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="ASDDAC1 [mV]"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="0"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="ASDDAC2 [mV]"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="0"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="ASDDAC3 [mV]"/>	
		<input type="radio"/>	<input type="radio"/>	<input type="text" value="0"/>	