



Definition uGT readout record

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<http://www.hephy.at>

<http://globaltrigger.hephy.at>

<https://twiki.cern.ch/twiki/bin/viewauth/CMS/GlobalTrigger>

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UNDER CONSTRUCTION !!!!

Contents

63	60	56	52	48	44	40	36	32	28	24	20	16	12	8	4	0																				
0x5		Ev_t		LV1_id								BXId				Source_id				FOV		H	X	\$	\$											
uFOV		Res		nAMC		Reserved						OrN												0x0												
0	L	M	S	E	P	V	C	AMC1_size								0	0	0	0	Blk_No		AmcNo		BoardID												
...																																				
0	L	M	S	E	P	V	C	AMC6_size								0	0	0	0	Blk_No		AmcNo		BoardID												
0x0		AmcNo AMC1		LV1_id								BXId				Data_lgth																				
User												OrN								BoardID																
uGT build												MP7 FW version																								
input data												BlockID=0x00				Block size				reserved ??																
input data												input data																								
...																																				
BlockID=0x02				Block size				reserved ??								input data																				
additional 11 input data blocks AMC1																																				
output data												BlockID=0x21				Block size				reserved ??																
output data												output data																								
...																																				
BlockID=0x23				Block size				reserved ??								output data																				
additional 8 output data blocks AMC1																																				
0x0		AmcNo AMC2		LV1_id								BXId				Data_lgth																				
User												OrN								BoardID																
uGT build												MP7 FW version																								
9 output data blocks AMC2																																				
blocks for AMC3 ... AMC6																																				
CRC 32 (AMCs)												LV1_id				0	0	0	0	Data_lgth																
CRC 32												0	0	0	0	Blk_No				LV1_id				BXId												
0xA						Evt_lgth												CRC								C	F	X	X	Ev stat		TTS	T	R	\$	\$

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References

- [1] AMC13 Event Builder:
http://ohm.bu.edu/~hazen/CMS/AMC13/UpdatedDAQPath_2014-07-10.pdf
- [2] MP7 Readout & DAQ:
https://github.com/cms-l1-globaltrigger/mp7_ugt_legacy/blob/master/doc/mp7_ugt_firmware_specification/MP7Readout.pdf