

Last update 040324

Object	Index	Register	Name	Default value	Bit mask	Description
1			L1			
	21		CB201	0x7	0x7	Topology Selection Bit 0: veto "out-of-time" hits Bit 1: veto "overflows" Bit 2: use UPC algorithm for topology decision
	23	0	LD301	0xa	0xffff	CTB ADC sum low threshold
		1		0x300	0xffff	CTB ADC sum med threshold
		2		0x600	0xffff	CTB ADC sum high threshold
		3		0x0	0xffff	CTB ADC window-min
		4		0xffff	0xffff	CTB ADC window-max
	25	0	VT201	0x0a0	0x1ff	BBC DeltaT Min0
		1		0x160	0x1ff	BBC DeltaT Max0
		2		0x0a0	0x1ff	BBC-DeltaT Min1
		3		0x160	0x1ff	BBC-DeltaT Max1
		4		0x0a0	0x1ff	ZDC-DeltaT Min0
		5		0x160	0x1ff	ZDC-DeltaT Max0
		6		0x0a0	0x1ff	ZDC-DeltaT Min1
		7		0x160	0x1ff	ZDC-DeltaT Max1
	26	0	EM201	0	0x7ff	BEMC-EnergySumTh0
		1		0	0x1ff	EEMC-EnergySumTh0
		2		0	0x3	ThresholdSelectJPsi (0,1,2)
		3		0	0x3	ThresholdSelectJetPatch Topo (0,1,2)
		4		0	0x3	TriggerModeJetPatch (Topo)
	27	0	BX201	0	0xffff	BXing start value: 16 LSB
		1		0	0xffff	BXing start value: 16 next bits
		2		1	0x1	Rev Tick synch enable
	28	0	BX202	0	0xffff	BXing start: 16 MSB
	29	0	ST201	0x6cd8	0xffff	Zero-bias prescale: 16 LSB
		1		1	0xffff	Zero-bias prescale: 16 MSB
		2		0	0xfff	Random rate: 12 LSB
		3		0	0xfff	Random rate: 12 MSB
	30	0	FP201	0x00c8	0x3fff	FPD ADC sum low threshold
		1		0x00ff	0x3fff	FPD ADC sum med threshold
		2		0x0fff	0x3fff	FPD ADC sum high threshold
		3		0x0	0x3	Threshold select: 0 => low threshold 1 => medium threshold 2 => high threshold 3 => off
		4		0xff	0xff	FPD module select: Bit 0 = NE (0 = off, 1 = on)

						Bit 1 = SE Bit 2 = TE Bit 3 = Be Bit 4 = NW Bit 5 = SW Bit 6 = TW Bit 7 = BW
2			BC1			
	33	0	BE101	0	0xff	BEMC-jet-patch-th0
		1		1	0xff	BEMC-jet-patch-th1
		2		2	0xff	BEMC-jet-patch-th2
	16		BE102			same as 33
	17		BE103			same as 33
	18		BW101			same as 33
	19		BW102			same as 33
	20		BW103			same as 33
	21	0	EE101	0	0x7f	EEMC-jet-patch-th0
		1		1	0x7f	EEMC-jet-patch-th1
		2		2	0x7f	EEMC-jet-patch-th2
	22		EE102			same as 21
	23	0	EE001	0x04	0x3f	EEMC-high-tower-th0
		1		0x09	0x3f	EEMC-high-tower-th1
		2		0x0e	0x3f	EEMC-high-tower-th2
	24		EE002			same as 23
	25		EE003			same as 23
	26		EE004			same as 23
	27		EE005			same as 23
	28		EE006			same as 23
	29		EE007			same as 23
	30		EE008			same as 23
	31		EE009			same as 23
3			MWC			No registers used
4			CTB			
	16	0	CB001	0x0	0xf	CTB deadtime in RS's
		1		0x000	0xff	Min ADC sum for topology alg.
		2		0xff	0xff	Max ADC sum for topology alg.
		3		0x0	0xf	Min. slat sun for topology alg.
		4		0xf	0xf	Max. slat sum for topology alg.
	17		CB002			same as 16
	18		CB003			same as 16
	19		CB004			same as 16
	20		CB005			same as 16
	21		CB006			same as 16
	22		CB007			same as 16
	23		CB008			same as 16
	24		CB009			same as 16
	25		CB010			same as 16
	26		CB011			same as 16
	27		CB012			same as 16
	28		CB013			same as 16
	29		CB014			same as 16

	30		CB015			same as 16
	31		CB016			Same as 16
5			BCW			
	16	0	BW001	0	0x3f	BEMC-high-tower-th0
		1		1	0x3f	BEMC-high-tower-th1
		2		2	0x3f	BEMC-high-tower-th2
	17		BW002			same as 16
	18		BW003			same as 16
	19		BW004			same as 16
	20		BW005			same as 16
	21		BW006			same as 16
	22		BW007			same as 16
	23		BW008			same as 16
	24		BW009			same as 16
	25		BW010			same as 16
	26		BW011			same as 16
	27		BW012			same as 16
	28		BW013			same as 16
	29		BW014			same as 16
	30		BW015			same as 16
6			BCE			
	16	0	BE001	0	0x3f	BEMC-high-tower-th0
		1		1	0x3f	BEMC-high-tower-th1
		2		2	0x3f	BEMC-high-tower-th2
	17		BE002			same as 16
	18		BE003			same as 16
	19		BE004			same as 16
	20		BE005			same as 16
	21		BE006			same as 16
	22		BE007			same as 16
	23		BE008			same as 16
	24		BE009			same as 16
	25		BE010			same as 16
	26		BE011			same as 16
	27		BE012			same as 16
	28		BE013			same as 16
	29		BE014			same as 16
	30		BE015			same as 16
7			EEC			This crate no longer exists
8			BBC			
	16	0	BB001	0x4	0xff	BBC small-tile ADC threshold
		1		0x0	0xff	BBC_TAC_Min
		2		0xff	0xff	BBC_TAC_Max
		3		0x0	0xf	BBC small-tile thr. deadtime in RS's
	18		BB002			same as 16
	20		BB003			same as 16
	22		BB004			same as 16
	24	0	BB005	0	0xff	BBC large ADC threshold
		1		0	0xf	BBC large-tile deadtime in RS's

	26	0	BB101	0xa	0x7ff	BBCE small-tile ADC th0
		1		0xa	0x7ff	BBCW small-tile ADC th0
		2		0xf	0x7ff	BBCE small-tile ADC th1
		3		0xf	0x7ff	BBCW small-tile ADC th1
	27	0	BB102	0xa	0x7ff	Large-East-ADC th0
		1		0xa	0x7ff	Large-West-ADC th0
		2		0xf	0x7ff	Large-east-ADC th1
		3		0xf	0x7ff	Large-West-ADC th1
	30	0	ZD001	5	0xff	ZDCE-ADC-th0
		1		5	0xff	ZDCW-ADC-th0
		2		0xf	0xff	ZDCE-ADC-th1
		3		0xf	0xff	ZDCW-ADC-th1
		4		0	0xff	ZDCE-TAC-min
		5		0	0xff	ZDCW-TAC-min
		6		0xa	0xf	ZDC-th0-deadtime in RS's
		7		0xa	0xf	ZDC-th1-deadtime in RS's
		8		0xa	0xf	ZDC-timewin-deadtime in RS's
		9		0x50	0xff	ZDC-sum-att-th
		10		0x0a	0xf	ZDC-sum-att-deadtime in RS's
		11		0xff	0xff	ZDCE-TAC-max
		12		0xff	0xff	ZDCW-TAC-max
9			FPE			No registers used yet NOTE: This whole object was missing from the old list. It will have registers this year if we implement an FPD-Hi-Tower trigger
10			FPE			No registers used yet NOTE: ditto