

TCU counter DB documentation:

The TCU counters are stored in:

Scalers_rts ---> tcuCounters

```
mysql> desc tcuCounters;
```

Field	Type	Null	Key	Default	Extra
run	int(11)	YES		NULL	
time	int(11)	YES		NULL	
tag	int(11)	YES		NULL	
type	int(11)	YES		NULL	
idx	int(11)	YES		NULL	
counter	bigint(20)	YES		NULL	

counter --> contains the number of bunch crossings measured from the TCU going into run mode.

run --> the run number

time --> the unix time

tag -->

0	unknown
1	start of run
2	end of run
3	data (written every 10 seconds)
4	start of triggering
5	end of triggering

For the type / idx are used to select various counters:type=1

type	idx	counter
1	1	bunch crossings
1	2	TCU deadtime
1	3	TCU events fired
1	4	TCU response fifo reads
2	detector group	detector dead counts by detector group
3	trigger id	physics presented by trigger
4	trigger id	STAR live by trigger
5	trigger id	events fired by trigger
6	detector grp	detector events fired

10	time_bucket	future_guardian counts after trg