



Figure 18-67. Layout of IA32_FIXED_CTR_CTRL MSR Supporting Adaptive PEBS

18.9.2.2 PEBS Record Format

The data fields in the PEBS record are aggregated into five groups which are described in the sub-sections below. Processors that support Adaptive PEBS implement a new MSR called MSR_PEBS_DATA_CFG which allows software to select the data groups to be captured. The data groups are not placed at fixed locations in the PEBS record, but are positioned immediately after one another, thus making the record format/size variable based on the groups selected.

18.9.2.2.1 Basic Info

The Basic group contains essential information for software to parse a record along with several critical fields. It is always collected.

Table 18-86. Basic Info Group

Field Name	Bit Width	Description
Record Format	[47:0]	This field indicates which data groups are included in the record. The field is zero if none of the counters that triggered the current PEBS record have their Adaptive_Record bit set. Otherwise it contains the value of MSR_PEBS_DATA_CFG.
	[63:48]	This field provides the size of the current record in bytes. Selected groups are packed back-to-back in the record without gaps or padding for unselected groups.