

Beam Cerenkov format:

The Cerenkov data appears in ROC24.

ROC 24:

<0xfead0000> - Cerenkov data flag

<0x0f000040>

<numwords> ← ignore

<trigger count higher 16bits>

<trigger count lower 16bits>

<turn onset higher 16bits>

<turn onset lower 16bits>

<RF onset>

<33 words> - each word consists of beam intensity. Multiply by 3.2 to get intensity in fC. The 17th word is the RF bucket that fired the trigger. The other 32 words are +/-16RF buckets around the trigger bucket.

Note!!! At the moment, there's something wrong with the format for the first event of each spill. I would suggest ignoring this event for the time being.

For all words starting from <numwords> **only the first 16 bits** of the 32 bit record is used.

So if <numwords> = <0x00200000>, then this is equal to **0x20, or 32 decimal**.