A graph of a number of different colored bars

Description automatically generated with medium confidence

This is much more distinctive!

A graph of a graph

Description automatically generated

I think we can find a middle ground

A graph of a graph with different colored bars

Description automatically generated with medium confidence If we completely ignore TDC3, we obtain a really good alignment

A graph of a graph showing different colored lines

Description automatically generated with medium confidence

Pairwise alignment between 2 and 3, works very well, revival agreed

A graph of multiple colored lines

Description automatically generated

Alignmend pairwise 01, 12, 23, 34 in alive region and 01, 12, 24 in unaligned region, we lose alignment of TDC2 and TDC3

A graph of a graph

Description automatically generated with medium confidence

It seems like the entire breakage is purely induced by TDC3, hence, we change it so that if it is TDC3, it only updates itself when compared with the rest.

So Attempt to align everything like this, but now when TDC3 is alive, you compare TDC3 with other TDCs using single adjustment method, (only adjusting singles)

A graph of multiple colored lines

Description automatically generated

Functioning well until when TDC3 is broken, we go into oscillation between TDC2 and 4

01,12,23,34 in unbroken region used, 01, 12, 24 in broken region used. We made sure that in any comparison with TDC3 was done, instead of chaining the alignment, we align the single TDC, this caused a better alignment.

A graph of multiple colored lines

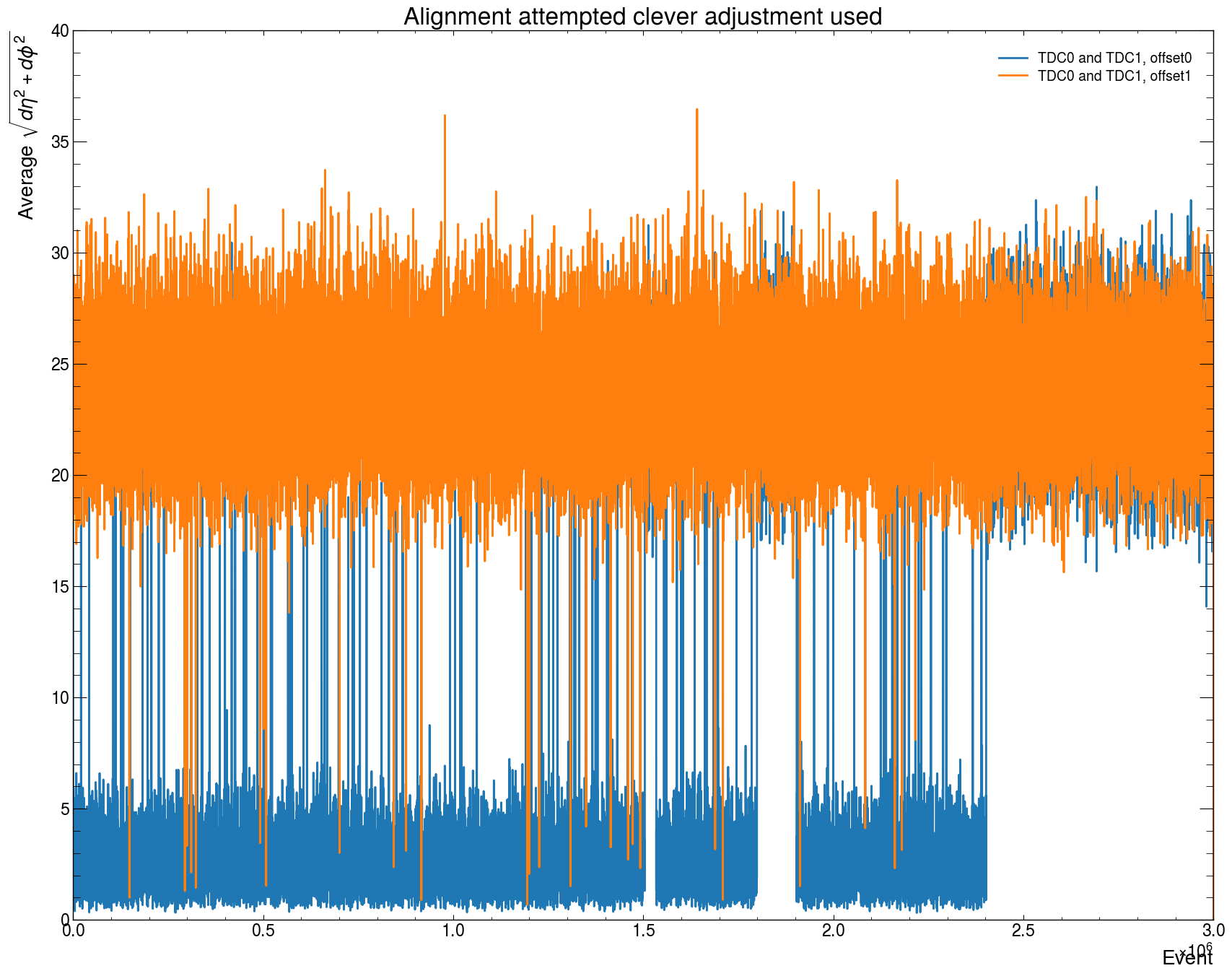
Description automatically generated

The software becomes a lot more unstable as time goes on. Especially the relation between TDC4 and the rest of the TDCs

It appears that any TDC have this problem. And possible at around 1.8 to 1.9 it happened to TDC0 possibly as well\

A graph with numbers and lines

Description automatically generatedseems like its fine



TDC0 just casually goes out of alignment, and can no longer be realigned, this effect is very similar to previouslyA colorful graph with black text

Description automatically generated with medium confidence

A colorful lines with black text

Description automatically generatedA colorful lines with black text

Description automatically generated with medium confidence

A graph of values and event numbers

Description automatically generated

A graph of values and event numbers

Description automatically generated

Most interesting bit: it seems like miusalignment happen in bursts. When a burst of misalignment happens, it typically requires 3-15 chunks of realignment to successfully bring it back (Which cause the spikes in the regions).

A graph of multiple colored lines

Description automatically generated

Especially TDC3 and 4, they really struggled, and this is the reason why it is extremely slow to align them.