
Subject: Re: Multihit TDCs in the PreSPEC setup (CAENv1290)

Posted by [mlcortes](#) on Wed, 28 Jan 2015 09:09:07 GMT

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I am trying a way to analyze the MhTDC of the FRS scintillators. The idea is to make all the possible differences between hits in both scintillators and take the first combination that gives a reasonable ToF.

I implemented this in a processor called TofSystemMhTDCSc un the UTILS plugin.

I use it like

```
processor MhTof/TofSystemMhTDC UTILS.TofSystemMhTDCSc
```

```
    input_array[0] <- LyccaTargetTofCrate.mhtdc0[16] #Sc21L
```

```
    input_array[1] <- LyccaTargetTofCrate.mhtdc0[18] #Sc21r
```

```
    input_array[2] <- LyccaTargetTofCrate.mhtdc0[20] #Sc41l
```

```
    input_array[3] <- LyccaTargetTofCrate.mhtdc0[22] #Sc41r
```

```
    reference[0] <- LyccaTargetTofCrate.mhtdc0[31] #Trigger
```

```
display hit_mult 100,0,100 in TofSystemMhTDC/Multiplicity
```

```
display diff_visu_Tof_Left | time_gate_Tof_Left in TofSystemMhTDC/TofLeft
```

```
display SelectedTime_Tof_Left in TofSystemMhTDC/TofLeft
```

```
display diff_visu_Tof_Right | time_gate_Tof_Right in TofSystemMhTDC/TofRight
```

```
display SelectedTime_Tof_Right in TofSystemMhTDC/TofRight
```

```
end
```

After that I can take the Selected Time for left and right PMT and use the TofSystemTacCal processor.

It is still at testing stage, but maybe someone finds it useful.