
Subject: Re: Multihit TDCs in the PreSPEC setup (CAENV1290)

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

[View Forum Message](#) <> [Reply to Message](#)

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.
