EXPERT ROOT - Developing #270

ERDigibuilder improvements

02/28/2019 08:47 PM - Vitaliy Schetinin

Status:	Открыта		**Start date:**	02/28/2019
Priority:	Нормальный		**Due date:**	
Assignee:	Vitaliy Schetinin		**% Done:**	0%
Category:	Base		**Estimated time:**	0.00 hour
Target version:	v-1.0			

Description

1. Отнаследовать классы ERBeamDetDigitizer, ERQTelescopeDigitizer, ERRTelescopeDigitizer от ERDigitizer

2. Ввести битность и ширину бита АЦП в edep для учета дискретизации.

History

#1 - 03/01/2019 12:08 PM - Sergey Belogurov

Еще левую границу первого бита! Важно понимать, что при этом размерность не меняется, только добавляется дискретность.

#2 - 03/06/2019 01:57 PM - Ivan Muzalevsky

option for digibuilder ERUnpack::UnpackAmpTimeStation is needed

At the moment digibuilder includes the ERUnpack::UnpackAmpTimeStation fucntion which is calling for all entries of DetEventStation (TClonesArray) of all DetEventDetector's.
This method involves the amp-time pairs constructing algorithm. If the pair could not be constructed due to one message missing (time or amp) such time/amp signals are not used in further analysis.
That means that in some cases one can loose data. Situations can be different, the simplest one is that TDC can be not used in our setup.
That's why it is necessary to create the option to save the amp/time signals which has not corresponded pair signal.

This option can be switched on or off in digibuilding macro as for example it is used for UserCut.

Events where time or amp was missing should be marked with special flag.