

# ST (not only) update

Giacomo Traini – Software meeting  
14/10/2021



# Time calculation parameters

- Constant fraction parameters are now got from a file (calib/WDpar.cal)
- hwCFD, simpleCFD possible choices (the new “Zarrella” method will be added soon)

```
!timealgo
ST hwCFD 0.3 2.0
TW simpleCFD 0.3
CA simpleCFD 0.2
```

# Trigger Info class

- New data class for trigger info (TAGWDtrigInfo) to store the trigger status, and the info needed for the efficiency calculation
- TriggerID
- TriggersStatus
- TriggersStatus vs time

```
class TAGWDtrigInfo : public TAGdata {
public:
    TAGWDtrigInfo();
    virtual ~TAGWDtrigInfo();

    Int_t GetTriggerID() const {return fTriggerID;}
    void GetTriggersStatus(Int_t status[NMAXTRIG]){status=fTriggersStatus;}
    void GetTriggersTiming(Int_t timing[NMONTRIG][NCLK]){timing=fTriggersTiming;}

    void AddInfo(int tbo, int triggerID, int nbanks, vector<uint32_t> words);
    virtual void Clear(Option_t* opt="");
    virtual void ToStream(ostream& os=cout, Option_t* option="") const;

public:
    static const Char_t* GetBranchName() { return fgkBranchName.Data(); }

private:

    Int_t fTriggerID;
    Int_t fTriggersStatus[NMAXTRIG];
    Int_t fTriggersTiming[NMONTRIG][NCLK];

private:
    static TString fgkBranchName;

    ClassDef(TAGWDtrigInfo,1)

};
```