

November 6th, 2017

Development of a new datalogger

HYDROCTOPUS

Hervé BARROIS



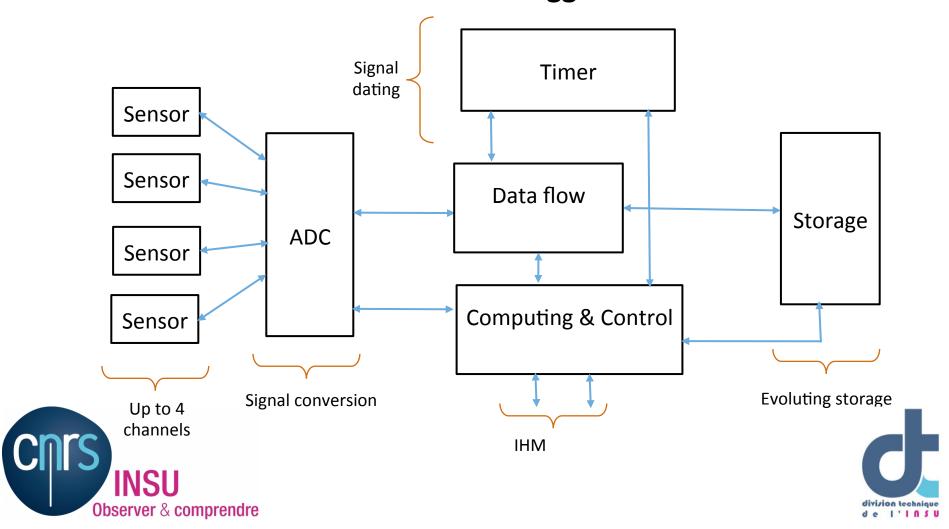






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What's Datalogger?







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- At first, a new electronics to be able sampling up to 1000 samples/s
- We work on electronics based on a μC MSP430
- We are starting on this work and we want developped anything open source for community... => we are listening all ideas









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Datalogger Specifications

- Data format 24 or 32 bits
- Programmable sampling frequency
- Ability to store 2 years of data
- Storage on SD or μSD card
- Auto test of the basic functions (ADC, HardDrive, RAM, TimeBase)
- Simple graphical interface for programming and verifying the device whitout opening it
- Simple graphical interface for downloading software
- Simple graphical interface for dowloading data
- HardDrive, RAM, TimeBase)

- Average power consumptiom as low as possible (less than 300mW at 100 SPS)
- Possibility to use DD lithium cells for longer deployments
- USB and/or Ethernet interface for programming and data transfer
- Group of 3 cards (ADC, CPU + DataStorage, Clock + Synchronization)
- All electronics cards + battery must fit in a cylindrical container whith an inner diameter of 100mm and lenght of 450mm





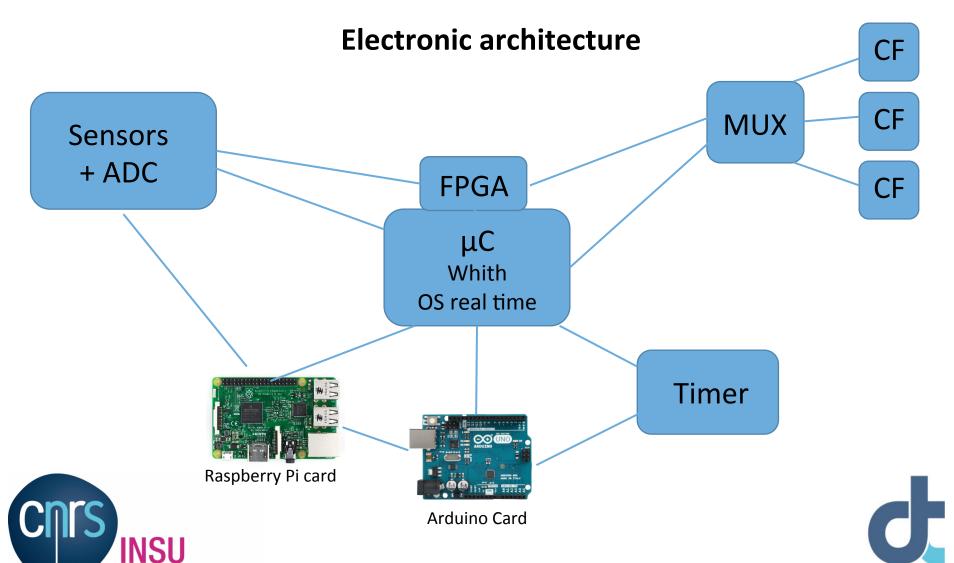


Observer & comprendre

2017 European OBS technical Workshop



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Thanks for your attention!

<u>Contact</u>: herve.barrois@cnrs.fr



