VLBA Software Group Meeting

Mark5C Control

Walter Brisken

National Radio Astronomy Observatory (Socorro, NM)

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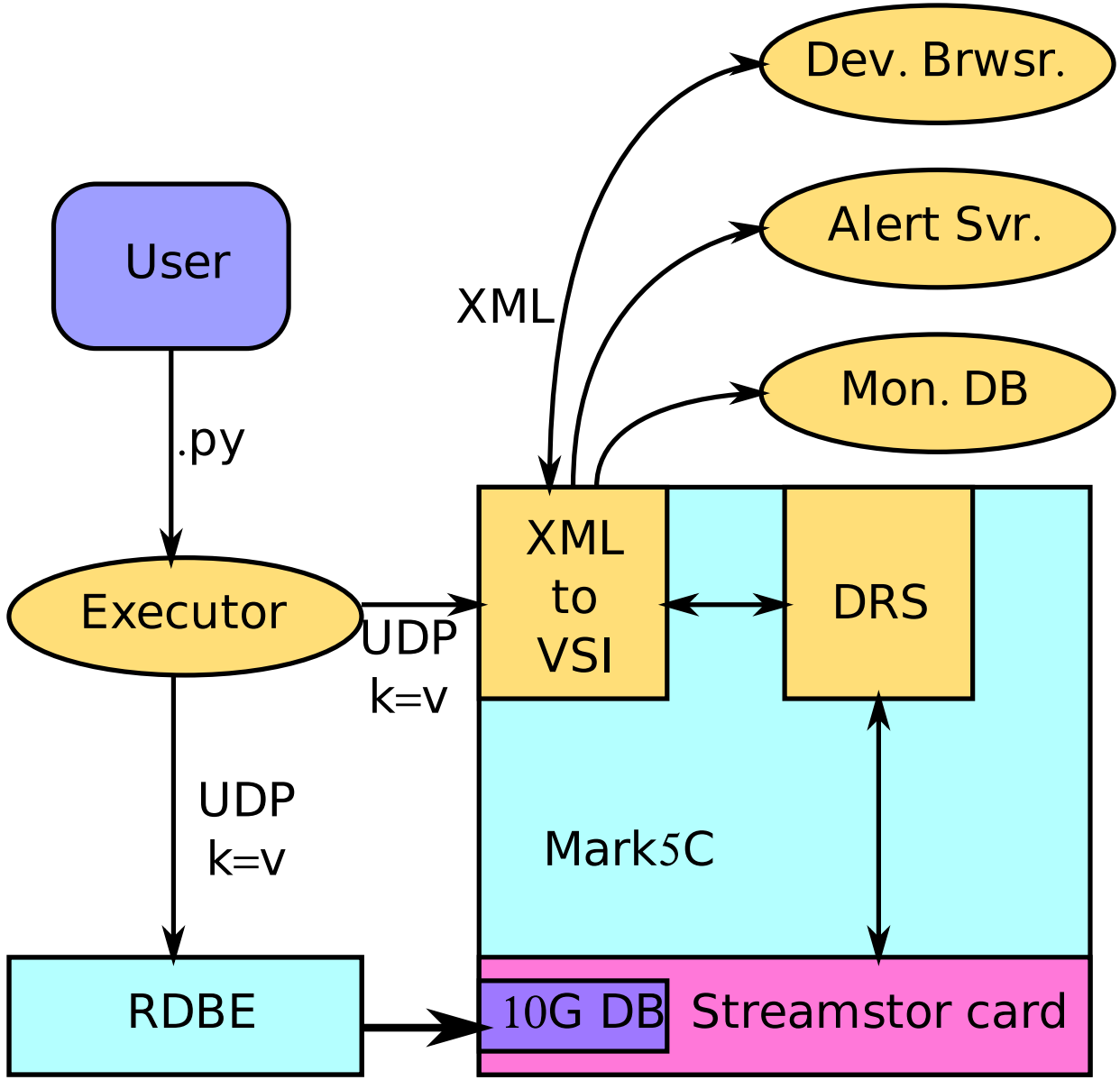
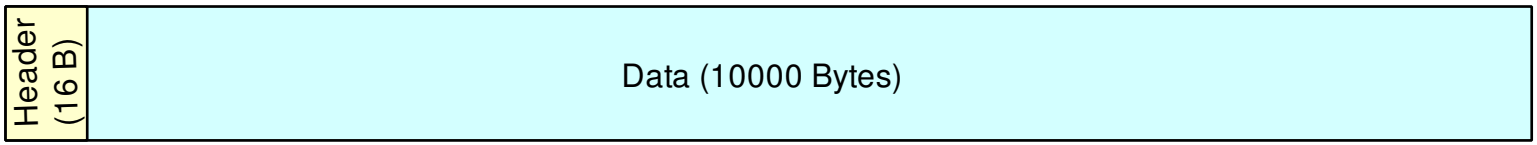
Mark5C Signal Path

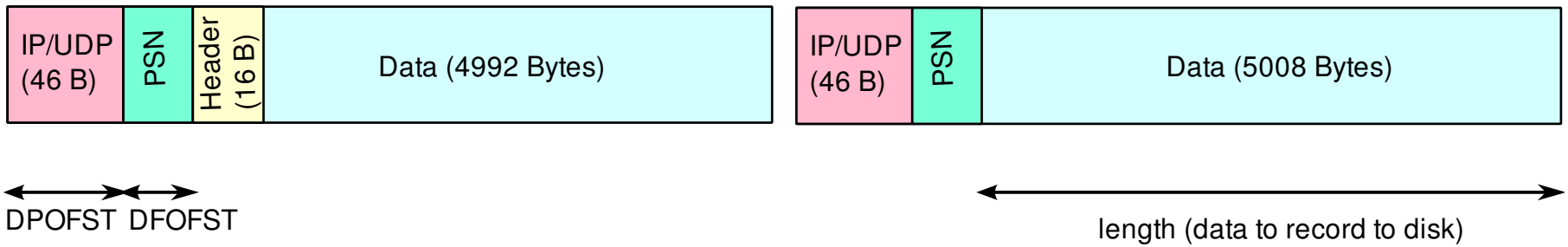


Recording Mark5B Format

1 Mark5B data frame



1 Mark5B data frame sent in 2 Mark5C packets



Note: DPOFST = 46, DFOFST = 4, length = 5008, PSNOFST = 0 here

Mark5C Command Set

Based on Mark5A and Mark5B

* Uses VSI-S language
* Handled by a program running on the Mark5 unit CPU
* Some command resemblance to Mark5A/B

See Chet's document, available in SVN

Mark5C Initialization

Mark5B mode

* mode = mark5b : 0xFFFF : 1 ; (*probably decimation = 1 always*)
* fill_pattern = 0x44332211 ;
* MAC_list = 00.00.00.00.00.00 ;
* packet = 46 : 4 : 5008 : 1 : 0 ;
* net_protocol = UDP

VDIF mode

* *topic to be addressed later*

Mark5C Recording

Option 1

* bank_set = A ; (*or B*)
* record = on : BB269_PT_No0023 ;
* *wait until scan is done* $\cdots$
* record = off ;

Option 2

* bank_set = A ; (*or B*)
* xfer = 2009y316d24h36m00s : 2009y316d24h40m00s : BB269_PT_No0023 ;

Note

* The bank_set command will be used to switch from one bank to the other if there is not enough space on the active module to fit the next scan, if the other module is available for write.

Mark5C Monitor & Control

Monitoring

* status?
* bank_info?
* bank_set?
* vsn?
* dir_info?
* pointers?
* error?

Controlling

* bank_set =
* protect =