

jive5ab current status

currently at version **2.4.5**

- see <http://www.jive.nl/~verkout/evlbi/>

jive5ab used in Session 3/2013

- recording with SDK9, erased with SDK8 ...
- disk pack with issues; LEDs indicated problems
- behaviour of “status?” and “error?” too different
 - “status?” doesn’t clear the error
 - documentation is multiple interpretable at best

what to expect in 2.5

Mark5C support

- already deployed a few β installations
 - either everything works fine
 - or Mark5C isn't really used

All commands are protected

- have conditions under which they can or can't execute
 - “mode=“ whilst taking data: #FAIL
 - “mode=“ whilst doing file2net: OK

FlexBuff support

- ideas based on Tomi Salminen's research
- integration with FS (Simon Casey)

DirList.py

SSErase.py

m5copy

DirList.py

Implemented using standard commands

- `dir_info?`, `scan_set=`, `scan_set?`
- compatible with Mark5A, DIMino, drs and jive5ab

Always up-to-date

- not cached in file, live from disk pack
- cannot do it whilst recording

DirList \$Id: DirList.py,v 1.3 2013-12-18 15:52:34 jive_cc Exp \$
(c) H. Verkouter/B. Eldering

usage: DirList.py [-h] [-a ADDRESS] [-p PORT] [-b BANK] [-g]

Retrieve DirList from disk module.

optional arguments:

-h, --help show this help message and exit

-a ADDRESS, --address ADDRESS

Mark5 IP or host name

-p PORT, --port PORT port to send queries to

-b BANK, --bank BANK request DirList of specific bank

-g, --gigabyte show values in units of GB (10^9 bytes)

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SSErase.py

Conditioning available in jive5ab for QST

- “reset = condition ;”
- no feedback other than disk LEDs

SSErase.py ONLY compatible with jive5ab **2.4.5 and later**

Behaviour equal to MIT Haystack SSErase

- can do both banks in sequence

usage: SSErase.py [-h] [-a ADDRESS] [-p PORT] [-c CONDITION] [-d DEBUG]

Erase disk(s) mounted in the target machine. Apply conditioning while erasing if requested.

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-c CONDITION, --condition CONDITION

apply conditioning to the disk (1: apply, default 0)

-d DEBUG, --debug DEBUG

print progress of conditioning (1: print, default 0)

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m5copy (a.k.a. e-shipping)

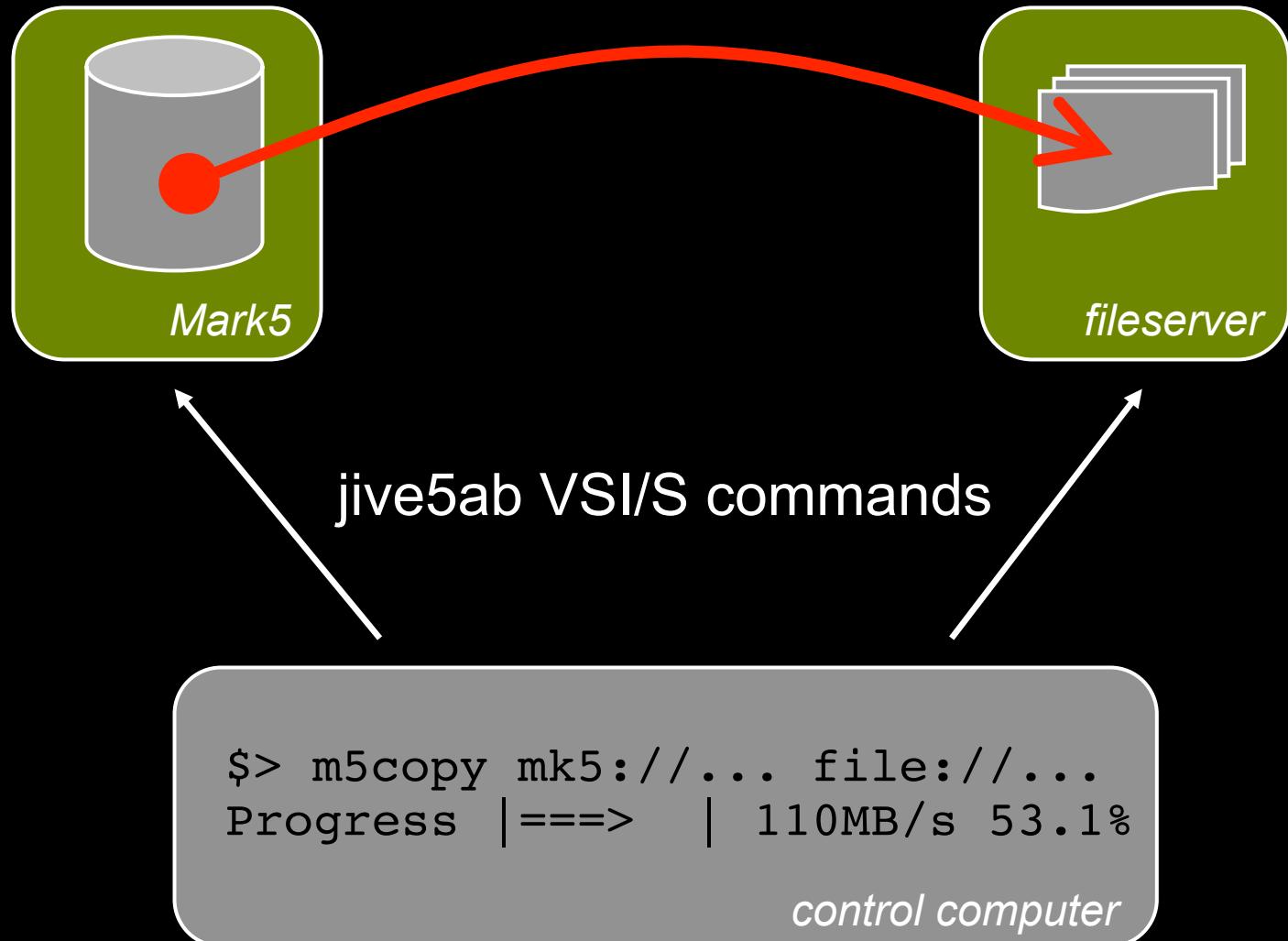
\$> m5copy [-h] [-udt] [-m MTU] SRC DST
• “*copy VLBI data from somewhere to elsewhere*”

Requires jive5ab **2.5 and up** running at both ends
• **2.4.*** *may be used, not everything works*

Zero configuration

Support

- TCP (local network), UDT (international, >> TCP!)
- wildcards on scan names, local file names, recordings
- list of scan numbers: 1-10, 16, 17
- FlexBuff recording syncing (**2.5 and up**)



file2net + net2disk

SRC

DST

		Mark5	File	FlexBuff			
		lcl	rem	lcl	rem	lcl	rem
Mark5	lcl						
	rem						
File	lcl						
	rem						
FlexBuff	lcl						
	rem						

disk2file

*“local”, “remote” is w.r.t. machine where m5copy is executed
“local” and “remote” are different machines*

Caveats

How to distribute these utilities?

- “.deb” package?
- web page with d/l links to individual scripts?

Some utilites depend on `argparse` python module

- installation fails on Mark5’ s python
- but it’ s just a single file! (can manually copy)

`m5copy` doesn’ t depend on `argparse` ...

- but doesn’ t run on Mark5’ s python (yet)

Python on Mark5 is not even prae-historic ...

- it’ s primordial!
- JIVE provides “.deb” binary package with Python 2.7?
- run utilities on a machine with more recent python