

Software



JIVE

Joint Institute for VLBI
ERIC

FlexBuff/Mark6 tools vbs_{ls|rm|fs}

The screenshot shows a web browser window displaying a code repository page. The browser's address bar shows a URL starting with 'code.jive.eu'. The page header includes a navigation bar with several tabs: 'we-all-see-tea - AS...', 'WhatsApp', 'na:sustainability:to...', 'rdtsc on apple m1 -...', 'Counting cycles an...', 'PyPI · The Python P...', and 'Packaging Python...'. Below the navigation bar, there are two file entries: 'vbs_rm.py' and 'vbsfs_version.h.in', each with a link to 'Add script to compute version'. A 'README.md' file is also listed. The main content area features a section titled 'VBS_FS'. Below the title, a paragraph explains that the vbsfs package consists of three utilities for dealing with scattered recorded VLBI data on FlexBuff, and since svn version r45 of July 2016, Mark6. A table follows, listing the tools and their uses. Below the table, a paragraph states that as of version r45 (27 July 2016) all utilities have been completely rewritten for use on either FlexBuff or Mark6 hardware and deal transparently with FlexBuff (vbs) and/or Mark6 recordings (dp1ane) even when mixed recording formats are present on the disks. Finally, a sentence indicates that installation instructions can be found later on in this document.

Tool	Use for
vbs_ls	lists all(some) vbs recordings on the system
vbs_rm	remove (a) recording(s)
vbs_fs	a FUSE virtual file system, presents each scattered recording as a single file, for use with standard UNIX tools

https://code.jive.eu/verkout/vbs_fs

FlexBuff/Mk6 tools vbs_{ls|rm|fs}

- ▶ Python[23] compatible
- ▶ added **./configure** options
 - ▶ **--cxx=/path/to/c++11-compiler**
 - ▶ **--python=/path/to/python**



/usr/bin/python not
guaranteed to exist

jive5ab: what happened since 2.9.0?

No official release since 2.9.0

April 2018

3.0 release candidate to testers

↳ due to COVID-19 never
made it to release

March 2020

<https://github.com/jive-vlbi/jive5ab>



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Releases Tags

v3.1.0-rc1
1a147cd

Compare

v3.1.0-rc1: Fix v1.12 details

tagged this last month

Of course, after commit+push, upon re-reading, found that some pieces of documentation were still missing - notably in the summary/preview of the command line options

Assets 2

Source code (zip)	last month
Source code (tar.gz)	last month

Show all 2 assets

jive5ab: 3.1.0-RC1 CHANGES

- github hosted

`https://github.com/jive-vlbi/jive5ab`

- build now CMake based

```
$> mkdir build && cd build
```

```
$> cmake -DOPTION[=value] /path/to/jive5ab_src
```

```
$> make
```

jive5ab: 3.1.0-RC1 FEATURES

- can run with root privilege
- support **net_port=[(IP|host)@]port**
 - record from specific interface (default: all)
- record VDIF-over-UDP in separate recordings
 - e.g. by VDIF thread id (much more is possible)
 - **scan_check?** picks up all sub-recordings automatically
- can be compiled with e-transfer support
 - built-in e-transfer client enables vbs/mk6 recording ⇒ **etd**
 - m5copy updated to support **etd://** destination
- support **null** for **scan_set**, **set_disks (*)**
 - *why: <https://github.com/jive-vlbi/jive5ab//e6647e2c130dd0ff92e670e92799c24dad45a371>*
- complex VDIF accepted as format in **mode=**

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jive5ab: 3.1.0-RC1 FIXES

- **scan_set** with time more accurate
 - reads more data
- partial last block was not written to disk
- new **scan_check?** algorithm
 - designed for multi-thread, high datarate VDIF
 - samples recording at multiple positions iso just start, end
- **cornerturner (split * ⇒ * commands)**
 - multi-thread aware; each thread split individually
 - now produces VDIF EDV0 as output iso legacy VDIF
- **portability issues addressed**
 - C++11 compatibility
 - compiling w/ clang on Apple M1 (x86_64 binary)

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Documentation

- updated to v1.12

- * document new features/commands
- * document previously added commands
- * add section on FlexBuff tuning
- * ~~add Table of contents~~

↪ Yikes! Only in v1.11 - just found out **not** in v1.12
have been editing the wrong document



Compiled-in version information

```
$> vbs_{ls|rm|fs} --version  
r62 [git:v0.9.1]
```

```
$> jive5ab --version  
jive5ab : 3.1.0-dev : 64bit : Debug : Macverkouter : 19-Dec-2022  
        : 15h44m44s : nossapi : /Users/verkouter/src/etransfer
```