
Field System, Status and New Features

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TOG, November 24, 2020, Via Zoom

FS Linux Distribution

◆ FSL10

- ⊕ Current standard
- ⊕ Based on Debian *stretch*
 - LTS expected to June 2022
- ⊕ 64-bit architecture
 - 32-bit also available
- ⊕ <https://nvi-inc.github.io/fsl10/>

◆ FSL11

- ⊕ Next standard
- ⊕ Based on Debian *buster*
 - LTS expected to June 2024
- ⊕ Availability TBD

FS 10.0.0

- ◆ Next release
 - ⊕ *beta2* is current pre-release, *beta3* soon, *rc1* follows
- ◆ Under test for more than six months
- ◆ Unification of main and VGOS branches
- ◆ Runs on both 32- and 64-bit systems
 - ⊕ Works for FSL9 and FSL10
 - ⊕ Works for FSL8 with display server disabled
 - FSL8 server support is being investigated
- ◆ Source is managed with *git*
- ◆ Distributed via *github*
- ◆ Update notes on web
 - <https://nvi-inc.github.io/fs/releases/10.0.0/beta2.html>
- ◆ Sign-up for release announcements at
 - <https://github.com/nvi-inc/fs>
 - Sign into *github* and click `Watch`
 - *vlbi-field-system* email list is going away.

fesh – Fetch and *drudg* schedule tool

- ◆ Primarily changed for geo schedules, now supports:
 - ⊕ FTP-SSL and HTTPS for *cddis*
 - ⊕ FTP for *bkg* and *opar*
 - ⊕ Fixed answers for optional *drudg* prompts
 - Intended to allow use by astro/geo stations for geo
 - Only supports one mode per schedule
 - ⊕ Optional downloading of *.txt* files
- ◆ For astro schedules, now supports:
 - ⊕ FTP for *vlbeer*
 - Uses current *.latest* sub-directory as default
 - ⊕ Does not run *drudg*
 - Possibly added in the future

DBBC3 Support – in development

◆ Finished:

- ⊕ *onoff* and *fivpt* support
- ⊕ Logging of multi-cast data including Tsys
- ⊕ *bbcnnn* commands, *nnn is* 001-128
- ⊕ *ifx* commands, *x is* a-h
- ⊕ *iftpx* commands, *x is* a-h
- ⊕ *core3h_moden*, commands, *n is* 1-8
- ⊕ Tsys display window
 - Cycles through all active IFs
 - Can be locked to a single IF for troubleshooting

◆ To do:

- ⊕ *drudg* support
- ⊕ Final testing

◆ Currently only mode per schedule will be supported

- ⊕ Mode change requires a `timesync`
 - Problematic to automate

VEX2 Status

- ◆ Draft parser completed
- ◆ Now cleaning up document
- ◆ Committee planning to discuss final details
- ◆ Looking toward a brief public comment period
 - ⊕ Major changes will be deferred to a later version
- ◆ Announce standard, early 2021
- ◆ Begin implementation and testing

More on *fesh* for astro schedules

- ◆ Challenges for running *drudg*
 - ⊕ More than one mode per schedule
 - Going away in the future?
 - ⊕ Different configurations for different bands
 - Relatively easy to support for only one configuration
- ◆ *fesh2* is coming
 - ⊕ Background schedule download/*drudg*
 - ⊕ Geared to NASA operations
 - ⊕ Exact features unclear at this time