Field System,
Status and New Features

Ed Himwich, Dave Horsley,
Jonathan Quick, and John Gipson

TOG, May 5, 2020, Bonn, Germany (via Zoom)

FS Linux Distribution

- FSL10
  - Thanks to J. Quick
  - Based on Debian `stretch`
    - LTS until mid 2022
  - 64-bit architecture available, and preferred
    - 32-bit still available
  - UEFI support available, and preferred
    - BIOS still available
  - RAID support tools greatly expanded
    - Three disk rotation scheme
  - CIS-CAT (IT security) remediation available
  - Installation instructions available on GitHub:
    - https://nvi-inc.github.io/fsl10/

- FSL11
  - Based on Debian `buster`
  - Availability TBD

FS Beta Release

- 10.0.0-beta1
  - Thanks to D. Horsley
  - Version control with `git`
  - Merge of main (9.13) and VGOS (9.12) branches
    - Nearly no new functionality
  - Code is 32- and 64-bit compatible
  - Switch to `gfortran` compiler for FORTRAN code
    - `fort77` is still supported for 32-bit platforms
  - Available on GitHub
    - https://github.com/nvi-inc/fs/releases/tag/10.0.0-beta1
- Alpha testing went reasonably well
  - Thanks to J. Quick
  - 32-bit (FSL9/FSL8, `wheezy/lenny`), 64-bit (FSL10, `stretch`)
  - VLBA5, Mark 5B, DBBC2, RDBE, Mark 6 (VGOS)
- Need Beta testers
  - FiLa10G, FlexBuff, DBBC3, …
  - `gnplt, …`

DBBC3 Support

- ◆ Existing Support
  - ✦ `BBCxxx` and `ifx` commands
  - ✦ `fivpt` and `onoff` for continuous and non-continuous cal
  - ✦ Tsys support with direct communication
  - ✦ Low-level `dbbc3=…` command
- ◆ Needed
  - ✦ Core3h board set-up
  - ✦ Time setting/monitoring
  - ✦ `drudg` support
  - ✦ Multicast support, particularly for Tsys
  - ✦ (Opacity)