Field System Topics

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FS Linux Distribution

- **FSL9**
  - Current Standard
  - Based on Debian “wheezy”
  - Older systems should be upgraded or be replaced
  - Has some minor serial issues, but so far we have solutions

- **FSL10**
  - Next standard
  - Will be based on Debian “jessie”
  - Availability TBD

- **64 vs 32 bit**
  - This is a looming issue
  - Soluble but will take some effort, looks more promising than initially thought
Current FS Release: FS 9.11.8

- **FiLa10G Support for DDC**
  - It is necessary to run FMSET ‘s’ each time DBBC (DDC or PFB) and/or FiLa10G is (re)-started
- **Mark 5C/6/Flexbuff support with jive5ab**
- **VLBC and CDAS racks**
  - Requires local `vsi4` command
- **Supports VDIF fanout_def track lay-outs in DRUDG**
- **Version logging for:**
  - DBBC, FiLa10G, and jive5ab
- **Log output of arbitrary linux command**
  - `sy=popen 'bash-command 2>&1' &`
  - No clean-up or time-out provided (yet)
Next release: 9.11.16

- Ready for Session 3
- **DBBC/PFB recording support**
  - `vsi1=list` and `vsi2=list` commands to select channels
  - `form=flex`
  - `mk5=vsi_align=0/1` as set by `skedf.ctl`
  - **64 bit masks for `fila10g_mode` and `mk5c_mode`**
  - Both v15 and v16 “supported”
- **CHEKR checking of DBBC version/personality**
- **Radiometry for DBBC/PFB**
  - `Tsys` including `tpicd` in background
  - `onoff` and `fivpt`
  - `gnplt` support for longer device names
- **Continuous cal with PFB deferred**
- **Full support for non-bank mode deferred**
  - Adequate for operations, with some extra error messages
More 9.11.16: `if` Command

- **if command introduction**
  - Suggested by Jon Quick
  - Used to make SNAP procedures independent of DDC/PFB and continuous vs non-continuous calibration
  - Also used to limit commands in standard procedures to those needed for mode:
    - IFs, BBCs, Cores
    - Example SNAP procedures `bread` and `iread`

- `if=condition, true-statement, false-statement`
  - Currently a limited range of conditions that can be tested: `pfb`, `ddc`, `bbcXX`, `ifX`, `coreX`
  - More conditions can be added in future
More 9.11.16 - Even more *if* command

- **Escape character, backslash, “\”**
  - **Needed for commas in statements to be executed**
    - Example command from *ifagc SNAP* procedure
      - `if=ifd,ifd=*,agc\,*,*`
  - **Nested if commands possible:**
    - Example of one level of nesting from *caltsys SNAP* procedure:
      - `if=cont_cal,,if=ddc,bbc_gain=all\,\,\,agc`
    - **Meaning:** if not continuous *cal* and if DDC, execute `bbc_gain=all,agc`
    - Need three backslashes for comma in the `bbc_gain` command
  - Arbitrary nesting is possible, but use of backslashes gets tedious
    - Detailed explanation with examples and suggestions for constructing commands included in *help page*