PRE-FOSDEM GNU RADIO
HACKFEST 2020

REVIEW

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02.02.2020
Visit https://www.nocolour.de/slides/hackfest-review/ for live slide imagery
FACTS

- Duration: 3 days (28.01 - 30.01)
- Location: ESA ESTEC (Noordwijk, NL)
- Participants: 14 (6 GNU Radio officers) + 1 space cat
- Thanks to the ESA TEC-EST section and ESA TEC-ES division for approval!
SETUP (DAY 2)
MICKY, THE SPACE CAT
MICKY, THE SPACE CAT

Micky, the Space Cat's Office :-)  
Any food for me, or anything to report, 
please go to:  
https://www.facebook.com/Micky-The-Space-Cat-323331394468036007/
TOPICS

- GNU Radio scheduler & runtime
- GNU Radio 3.8 OOT porting & package feed
- SigMF Tooling
SCHEDULER & RUNTIME

- First Day: Brainstorming session
- Second & Third Day: Start of Proof of Concept implementation

https://github.com/gnuradio/newsched
GNU RADIO 3.8 OOT PORTING & PACKAGE FEED

- Effort to help porting packages to 3.8
- Adding features to make porting to 3.8 easier
- Thoughts & Concept for a binary package feed
OSMOCOM_FFT QTGUI PORTING
CGRAN UPDATES

- Add a `supported_versions: vX.Y, vY.Z` key to your MANIFEST.md files
- Specified logos are now loaded & displayed in CGRAN
CONCEPT FOR AUTOMATIC OOT PACKAGING FEED (DEBIAN DERIVATIVES)

- Automatic parsing of a metadata file (PyBOMBS recipe with extra fields)
- Generation of control/rules/install files in `debian/` directory
- CI pipeline for automatic packaging
SIGMF TOOLING

- Goal: Profileration of SigMF in the GNU Radio ecosystem for IQ sample storage & metadata description
CLEANUP OF LIBSIGMF CMAKE

- Adhere to Modern CMake
- Enable easy downstream packaging
- First results posted in PR #4
ADDITION OF SIGMF TO INSPECTRUM (PR #161)
FUN ACTIVITIES

• Hackfest at the European Space Research and Technology Centre has some upsides
TOUR THROUGH THE ERASMUS BUILDING

Figure 9: 3D CGI & real footage tour through the ISS
VISIT TO THE CONCURRENT DESIGN FACILITY (CDF)
CONCLUSION

- Real progress on GNU Radio runtime & scheduler implementation
- Good updates & additions to the GNU Radio 3.8 OOT porting effort
- New sparked interest int SigMF and integration into more tools is planned for the near future!
THANKS FOR YOUR ATTENTION -
JOIN THE NEXT HACKFEST!

[Image of a cat looking up]