calib_packv3_120722_1408_ch_ampl_module1.root calib_packv3_120522_1708_ampl_adc_modulez calib_packv4_121022_1716_map.txt calib_packv4_012123_1030_cn_ calib_packv4_0115255 calib_packv4_ Callna calib pack vA 121622-1502-ampl-adc_modules calib_packv4_010523_1205_ampl_adc_ calib_packv4_121622_1123_cc calib_packvb_uzilza calib_packvac COLLEGA -1706 ch-amp1_module0.pdf callib-back Λ 4 01/3231 454 -ch1 -ch3-1213 ch_amp1_module5.root calib-packv5-021123-1942-ch-ampl_module8.pdf calib_packv4_020823_1633_ch_module3.root calib_packv4_010823_1743_ch_module6.pdf $23\sqrt{643}$ ch amplements. calib_packv4_122822_1237_module0.pdf calib-packv4-021923-2007-ch_module4.pdf Calib—backv4—122822—1225—ch—ampl_module0.root

calib—backv4—122822—1450 calib_packv5_021123_1841_ch_module0.pdf 122-1854 ch-ampl_modules.pdf cally pack $\sqrt{4}$ of $\sqrt{2}$ of $\sqrt{2$ cally-packy 4 6 1 3 2 3 4 50 6 1 32 3 3 4 50 6 323_1650_ch_module13.root John-Jobe Igno 1, 1051 calib-back Λ = 0.000 = 0.000 = 0.000 = 0.000 = 0.00 = 0.000 $0823_2005_amp1_adc_module6.pdf$ calib-packv4-01/323-1655-ch-module4.pdf calib-backv3-120255-1222-ch-ampl_module2.pdf b_packv4_010723_1510_ch_module5.root ib-packvA-011323-1429-ampl-adc_module2.pdf ib-packvA-011323-102C Calib-backny or 2022 1116 ch ample and and an action of the control of the contro 1ib_packv5_021123_1836_amp1_adc_module1.pdf calib_packv4_010823_1711_ampl_add Calib-back $\wedge 4$ = 1200LC = 1302 = 1116 = 1200 = calib_packv4_013023_1116.pk1 11ib_packv5_021123_1923_ch_ampl_module9.root calib_packv4_020323_1714_ch-ampl alip_packv4_010823_1601_ch-amp1_module5.pdf calib_packv4_01/323_1627_amp1_a 2alib_packv5_021123_1923_ampl_adc_module6.γοοτ calib_packv4_01/223_1845_ch_amp carro-packv4_122822_1345_ch_module3.pdf
calib_packv4_122822_1345_ch__module3.pdf The cockyd and 2003 ampl-adc_modules. calib_packv3_120122_1326_modul calib_packv4_010423_1530.pk1 at 10 - Pack VA 121122 2047. pk1 module1. root

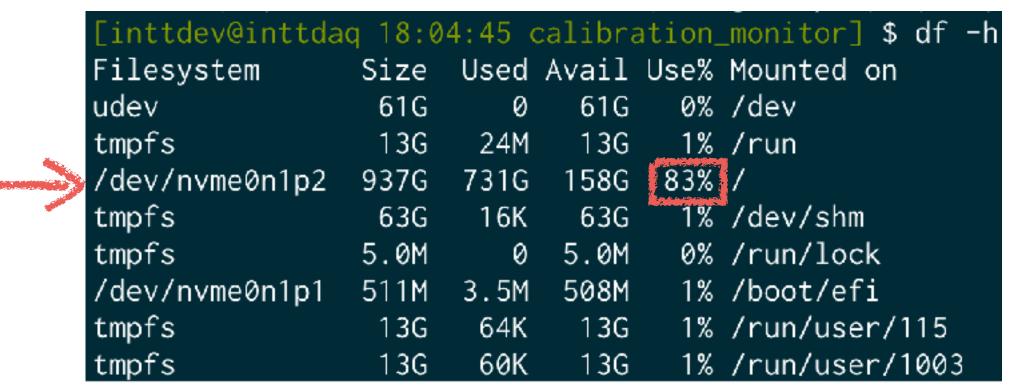
b pack VA 011323 - 1659 - ch module5. root

c pack VA 011323 - 1659 - ch ampl module5. root calib packv4_02/423_14/7_ampl

Cleaning and Organizing files...

- Since we have worked so hard, a lot of files are
 - inttdaq
 - ~/INTT
 - sPHENIX common directory
 - ~/INTT
 - ~/operation/INTT
 - SDCC working directory
 - /sphenix/tg/tg01/commissioning/INTT
- It's better to clean and organize them before RUN24.

inttdaq



- Disk quota:
 - Data taken by this server (calibration and beam in the beginng of RUN23 and in the silicon lab) take large disk space (~/INTT/data)
 - How do we make back-up?
 - Suggestion to save disc space:
 - ▶ pkl files (output from RaulDAQ) and ntp files (intermediate file, pkl → ntp → root) can be compressed about 70—80% by zip. ~260 GB can be saved.
 - ~/operation/INTT
 - SDCC working directory
 - /sphenix/tg/t0/commissioning/INTT
- Data directory:
 - Data taken in 2023 (and 2022 in the silicon lab) should be moved to a subdirectory.
 - For example, ~/INTT/data/2023

```
[inttdev@inttdaq 18:11:36 data] $ du -h -d 2
26G
        ./IR/commissioning
867M
        ./IR/folder_cali_ana
68K
        ./IR/auto_elog_gen
145G
        ./IR
1.1G
        ./commissioning/hit_files
1.1G
        ./commissioning
202M
        ./commissioning_6_2/hit_files
202M
        ./commissioning_6_2
1.6G
        ./commissioning_5_23/hit_files
4.0K
        ./commissioning_5_23/evt_files
4.0K
         ./commissioning_5_23/bco_files
10G
         ./commissioning_5_23
21M
         ./commissioning_5_30/hit_files
21M
        ./commissioning_5_30
146M
        ./commissioning_6_4/hit_files
146M
        ./commissioning_6_4
        ./commissioning_6_6/hit_files
50G
        ./commissioning_6_6
        ./calib_packv3_221117
7.7M
7.7M
        ./12_01_22/zip
145M
        ./12_01_22
158G
        ./IR_DAQ_server/INTT_study_run
278G
        ./IR_DAQ_server
614G
```

sPHENIX common directory

- sPHENIX common directory among servers at 1008, e.g., opc0.
- ~/INTT
 - map files (directories under map_dac0, map_ladder, map_mask, map_server)
 - should be under a subdirectory to save them.
 - Information will be copied to the sPHENIX PostgreSQL database eventually.
 - Python scripts and configuration files in rcdaq and sphenix_inttpy directories
 - messy
 - Raul's help is needed to clean them up.
 - README is needed for these directories.

```
enable_FELIX_channels.py~
                                                                felix_readout_pedestal_cw_temp.py~ gtm_setup_calibration.py
                                                                                                                                                       reset_intt_clocks.sh
                             felix_readout_calib_packv5.py
                                                                                                                                                       reverse_pol.py
                                                                                                                                                       run_20230523_standalone.py
                             felix_readout_check_register.py
                                                                                                                                                                                    testbench_intt_clocks.sh
                                                                                                                                __pycache__
                             felix_readout_clk_init.py
                                                                felix_readout_sanity_check.py
                                                                                                                                                                                    test.py
                             felix_readout_cold_start.py
                                                                felix_readout_unpacker_v5.py
                                                                                                                                pygtm_client
                                                                felix_readout_unpacker_v6.py
                                                                                                                                raul_decoder
                                                                                                                                                       run_20230724.py~
                                                                                                                                                                                     vivado_40613.backup.jou
                                                                                                                                                                                     vivado_40613.backup.log
disable_FELIX_channels.py~ felix_readout_lvl1_testing.py
enable_FELIX_channels.py felix_readout_pedestal_cw_temp.py fphx_command_check.py
                                                                                                     intt_ext.py
```

- ~/operations/INTT
 - It's messy too.

```
phnxrc@opc0:~/operations/INTT$ is

bkp intt3_setup.sh intt_cosmics_streamed_15KHz.scheduler intt_cosmics_streamed.scheduler intt_noise_5KHz.scheduler intt_setup.sh L1FineDelay.sh rc_setup_local_cosmics.sh README.md~ vivado.l

hostlist_intt.dat intt4_setup.sh intt_cosmics_streamed_18_KHz.scheduler intt_FA.scheduler intt_raul.scheduler intt_take_data.sh L1FineDelay.sh~ rc_setup_local_cosmics.sh~ setup_all_rcdaqs.sh

intt0_setup.sh intt5_setup.sh intt_cosmics_streamed_25_KHz.scheduler intt_gtm_setup_local.sh intt_reset_clks.scheduler l1delay.log modebits.log rc_setup_local.sh stop_run.sh

intt1_setup.sh intt6_setup.sh intt_cosmics_streamed_37KHz.scheduler intt_gtm_setup.sh intt.scheduler l1delay.sh modebits.sh rc_setup.sh test.sh

intt2_setup.sh intt7_setup.sh intt_cosmics_streamed_75KHz.scheduler intt_moise_500Hz.scheduler intt.scheduler.backup L1FineDelay.log rc.log README.md vivado.jou
```

Raul's and DAQ group(?)'s help is needed.

- README is needed.
- Another suggestion is about prefix of evt files
 - beam, cosmics, calib runs are OK.
 - Other run types, junk, calibration, pedestal, generate evt files with the same prefix intt. It's better to change them.

```
phnxrc@opc0:~/INTT$ ls -1 map_ladder | gre
intt0_map.txt
intt1_map.txt
intt2_map.txt
intt3_map.txt
intt4_map.txt
intt5_map.txt
intt6_map.txt
intt7_map.txt
RC-0N_1N_DF_032623.txt
RC-0S_1S.txt
RC-0S_map.txt
RC-0S_swap_2023_03_22.txt
RC-1N_DF_032623.txt
RC-1S_map.txt
RC-1S_swap_2023_03_22.txt
RC-2N_3N_DF_032623.txt
RC-2N_DF_032623.txt
RC-2S_3Smap.txt
RC-2S_map.txt
RC-2S_map-v2.txt
RC-3N_DF_032623.txt
RC-3S_7S_map.txt
RC-3S_map.txt
RC-4N_5N_DF_032623.txt
RC-4N.txt
RC-4S_5S_map_default.txt
RC-4S_5S_map.txt
RC-4S_map.txt
RC-5N_DF_032623.txt
RC-5S_3S_map.txt
RC-5S_map.txt
RC-6N_7N.txt
RC-6N.txt
RC-6S_7S_map_default.txt
RC-6S_7S_map.txt
RC-6S_map.txt
RC-7N.txt
RC-7S_map.txt
silicon_lab
test.txt
```

SDCC working directory

- /sphenix/tg/tg01/commissioning/INTT
 - ROOT files are under root_files and merged_root_files directory. Should we move them to a subdirectory 2023?
 - It must be better to organize data file like:

```
[nukazuka@sphnx05 18:49:25 INTT] $ ls -1
commissioning_production
dst_files
evt_files
map_ladder
merged_root_files
QA
README.md
README.md
repositories
root_files
show_README.sh
show_README.sh
subsystems
work
```