Useful commands at SDCC
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Status at SDCC

- Data from the buffer box: /sphenix/lustre01/sphnxpro/commissioning/INTT/
- Our working place: /sphenix/tg/tg01/commissioning/INTT
  - Hit base and event base ROOT files: /sphenix/tg/tg01/commissioning/INTT/root_files
  - Merged ROOT files: /sphenix/tg/tg01/commissioning/INTT/merged_root_files

→ One may want to know which run is available in SDCC easily

→ We should share such useful commands

→ Additionally, setting analysis environment up easily.

The setup directory for the INTT group

I just made it: /sphenix/lustre01/sphnxpro/commissioning/INTT/repositories/libraries

- **intt_setup.sh** : PATH, LD_LIBRARY_PATH, etc. are configured.
- **bin** : some useful commands are there
- **lib** : Libraries to be shared in the INTT group should be here (nothing there now, to be discussed)
- **include** : Header files to be shared in the INTT group should be here (nothing there now, to be discussed)

```
[nukazuka@sphnx05 17:02:45 libraries] $ ls
bin  include  intt_setup.sh  intt_setup.sh~  lib
```

Useful command: intt_runs

A list of runs in SDCC is shown

Usage: intt_runs [file type] [run type]
 [file type]: evt hit_base event_base merged_event_base DST
 [run type]: beam calib calibration cosmics junk pedestal

```
[nukazuka@sphnx05 17:08:20 libraries] $ intt_runs evt cosmics
/sphenix/lustre01/sphnxpro/commissioning/INTT/cosmics/
00021052
00021053
00021076
00021077
00021078
00021079
00021080
00021081
00021082
00021084
00021085
00021086
00021087
00021088
00021089
00021090
00021212
00024201
00024202
00024203
00024205
```

```
[nukazuka@sphnx05 17:10:30 libraries] $ intt_runs merged_event_base beam
/sphenix/tg/tg01/commissioning/INTT/merged_root_files/
00020864
00020866
00020867
00020868
00020869
00020878
00020880
00020881
00020883
00020885
```

Useful command: intt_runs_felix

A list of run in SDCC is shown FELIX by FELIX
 Usage: intt_runs_felix [file type] [run type]
    [file type]: evt hit_base event_base merged_event_base DST
    [run type]: beam calib calibration cosmics junk pedestal

Useful command: intt_runs_diff

The difference of available runs between file types for the same run type

```
Usage: intt_runs_diff [file type A] [file type B] [run type]
  [file type A], [file type B]: evt hit_base event_base merged_event_base DST
  [run type]: beam calib calibration cosmics junk pedestal
```

```
[nukazuka@sphnx05 12:58:44 ~] $ intt_runs_diff evt event_base cosmics
/sphenix/lustre01/sphnxpro/commissioning/INTT/cosmics/    | /sphenix/tg/tg01/commissioning/INTT/root_files/
00021052                                                  <
00021053                                                  <
00021076                                                  <
00021077                                                  <
00021078                                                  <
00021079                                                  <
00021080                                                  <
00021081                                                  <
00021082                                                  <
00021084                                                  <
00021085                                                  <
00021086                                                  <
00021087                                                  <
00021088                                                  <
```

↑
Runs only in the list of evt files

↑
Runs only in the list of event base ROOT files

Useful command: intt_help

An explanation is shown

Usage: `intt_runs_felix`

```
# HELP for INTT softwares

## How to use

Run the setup script:

source
/sphenix/tg/tg01/commissioning/INTT/repositories/librares/intt_setup.sh

so PATH and LD_LIBRARY_PATH are set. It takes no argument.
If you write the command in your .bashrc, it's done automatically👍.

## Commands

### intt_help

This command

### intt_readme

A command to show README.md (or any text files in markdow style) nicely.
It's actually runs glow ( https://github.com/charmbracelet/glow ).
You can run it simply

intt_readme README.md

(README.md above is a path to a text file to be shown).

### intt_runs

It shows a list of runs in SDCC.

Usage: intt_runs [file type] [run type]
[file type]: evt hit_base event_base merged_event_base DST
[run type]: beam calib calibration cosmics junk pedestal

So you will see, for example
```

Useful command: intt_readme

It prints contents in a text file

Usage: intt_readme [file name]

[file name]: The txt file name to be shown.

例

/sphenix/tg/tg01/commissioning/INTT/
README.md

Each directory should have a README file. To read it, this command, which just uses the external command, is better than *cat*.

Any questions/opinions/requests?
You can share your commands!