## DAQ tests before Christmas

- Last week, some daq difficulties on belle2 daq side
- This week, test will continued until Friday 7 am CET
- Except, others will shut down their systems earlier ??
- All tests without modules so far..

At rate $>20 \mathrm{kHz}$ ONSEN received HLT trigger before DHH data resulting in memory overflow!
$\rightarrow$ Requires further investigation

## DAQ observations before Christmas

- Too many errors from DHH can break ONSEN ( related to to many logs)
- Solution implemented, not yet fully tested
- Overnight run at low rate ( 1 kHz ) fine with current setup / fw
- Tuesday short run at 38 kHz running stable
- Errors not checked
- Tuesday run at 22 kHz fine, but some errors found


## DAQ observations before Christmas

- CRC error in $5^{\text {th }}$ frame (DHE start)
- All trig \# are different
- DHE 16-bit word count wrong
- DHP frame \# (47 \& 23)
- Is it supposed to by like this? Might be related to trig \# prob
- Correct DHC word count
- No missing frame




## DAQ observations before Christmas

- Terminating frame
- Unexpected frame order
- $2^{\text {nd }}$ DHE Start missing
- Missing EndOfFrame (LocalLink) after missing frame
- Frame was dropped successfully in ONSEN


Normal: DHC start - [ DHE start - ghost - DHE end $]^{\wedge} 2$ - DHC end

## DAQ observations before Christmas

- Previous errors seems to occur only for rates $>20 \mathrm{kHz}$
- Trigger number messed up also in other frames
- DHC link instability (1-2 bit error in several hours)
- FTSW gets busy every $2^{\text {nd }}$ run.
- Related to FTB (requires update, but not yet done)
- Since today, RC is completely stuck. Not yet clear, maybe NSM?
- Links to EB and HLT fine
- SVD included in VXD RC.


## Plans/Questions for January

- EPICS Upgrade to 3.16.1 ?!
- Alarm System check ?!
- Long runs at 30 kHz
- Shifter manual (Troubleshooting)
- RC of DATCON \& DHH ? (reset, init, etc.)
- Global PXD SlowControl overview?
- Further checks on ONSEN inputs under development to avoid corrupt data


## PERSY

## What is the future plan for PERSY?

A lot of tests have to be done!

