

Issue with the log file browser is making L1Proc debugging very challenging

Something is wrong with the p-II logfile browser when reading files on S3DF. This file:

/sdf/data/fermi/n/u41/L1/logs/DEV/L1Proc/6.0/doRun/doChunk/digitization/021/682xxxxxx/587xxx/162/106xxx/956
/logFile.txt

Seems to have a malformed query, as displayed [by the logfile browser](#) for the pipeline:

```
# About to issue SELECT:
SELECT ser_no FROM metadata_v2r1 WHERE ((completion="OK") AND (instrument="LAT") AND (calib_type="CAL_Ped") AND
(flavor="L1current") AND ("2022-08-19 07:32:45">=vstart) AND ("2022-08-19 07:32:45"<vend) and="" ("prod"=
PROC_LEVEL))" order="" by="" update_time="" desc="" #="" about="" to="" issue="" select:="" select="" data_fmt,
fmt_version,data_ident="" from="" metadata_v2r1="" where="" (ser_no="1305")="" detectorpersist...="" info=""
added="" successfully="" conversion="" service:calibxmlcnvsvc="" xmlbasecnv="" parsed="" document=""
$(latcalibroot)="" cal="" p7repro="" pedavr_676m_680m.xml="" aka="" sdf="" data="" fermi="" a="" ground=""
releases="" calibrations="" vstart,vend="" calcalibsvc="" updating="" calib="" cal_ped="" l1current="" ser_no=""
((completion="OK" (instrument="LAT" (calib_type="CAL_TholdCI" (flavor="L1current" ("2022-08-19"" 07:32:45""
>=vstart) AND ("2022-08-19 07:32:45"<vend) and="" ("prod"="PROC_LEVEL"))" order="" by="" update_time="" desc=""
#="" about="" to="" issue="" select:="" select="" data_fmt,fmt_version,data_ident="" from="" metadata_v2r1=""
where="" (ser_no="998")="" xmlbasecnv="" info="" successfully="" parsed="" document="" $(latcalibroot)="" cal=""
lat-flight_gain="" pre_launch_calib_0608="" 0407.flight_gain.tholdci.cold_lpa_lac.xml="" aka="" sdf="" data=""
fermi="" a="" ground="" releases="" calibrations="" vstart,vend="" calcalibsvc="" updating="" calib=""
cal_tholdci="" l1current="" ser_no="" ((completion="OK" (instrument="LAT" (calib_type="CAL_IntNonlin" (flavor="
L1current" ("2022-08-19"" 07:32:45"">=vstart) AND ("2022-08-19 07:32:45"<vend) and="" ("prod"="PROC_LEVEL"))"
order="" by="" update_time="" desc="" #="" about="" to="" issue="" select:="" select="" data_fmt,fmt_version,
data_ident="" from="" metadata_v2r1="" where="" (ser_no="999")="" xmlbasecnv="" info="" successfully=""
parsed="" document="" $(latcalibroot)="" cal="" lat-flight_gain="" pre_launch_calib_0608="" digitization-
v4r0p2_077016861_digi_digi01.flight_gain.cidac2adc.xml="" aka="" sdf="" data="" fermi="" a="" ground=""
releases="" calibrations="" vstart,vend="" calcalibsvc="" updating="" calib="" cal_intnonlin="" l1current=""
ser_no="" ((completion="OK" (instrument="LAT" (calib_type="CAL_MevPerDac" (flavor="L1current" ("2022-08-19"" 07:
32:45"">=vstart) AND ("2022-08-19 07:32:45"<vend) and="" ("prod"="PROC_LEVEL"))" order="" by="" update_time=""
desc="" #="" about="" to="" issue="" select:="" select="" data_fmt,fmt_version,data_ident="" from=""
metadata_v2r1="" where="" (ser_no="1304")="" xmlbasecnv="" info="" successfully="" parsed="" document=""
$(latcalibroot)="" cal="" p7repro="" fit_proton_calib_676m_680m_bigsum.calmpd.xml="" aka="" sdf="" data=""
fermi="" a="" ground="" releases="" calibrations="" vstart,vend="" calcalibsvc="" updating="" calib=""
cal_mevperdac="" l1current="" ser_no="" ((completion="OK" (instrument="LAT" (calib_type="CAL_Asym" (flavor="
L1current" ("2022-08-19"" 07:32:45"">=vstart) AND ("2022-08-19 07:32:45"<vend) and="" ("prod"="PROC_LEVEL"))"
order="" by="" update_time="" desc="" #="" about="" to="" issue="" select:="" select="" data_fmt,fmt_version,
data_ident="" from="" metadata_v2r1="" where="" (ser_no="1303")="" xmlbasecnv="" info="" successfully=""
parsed="" document="" $(latcalibroot)="" cal="" p7repro="" fit_gcrhists_lkhd_676m_680m_bigsum.gcr_asym_hist.
xml="" aka="" sdf="" data="" fermi="" a="" ground="" releases="" calibrations="" vstart,vend="" calcalibsvc=""
updating="" calib="" cal_asym="" l1current="" triggeralg="" trigger="" tables="" engine="" external=""
solicited="" periodic="" cno="" cal-hi="" cal-lo="" tkr="" roi="" zero-sup="" ranges="" prescale="" marker=""
inhibit="" 0="" 1="" x="" enabled="" 1-rng="" no="" 2="" 3="" disabled="" 4-rng="" 4="" 5="" 249="" 6="" 7=""
8="" 9="" 10="" 49="" 11="" 12="" 13="" 14="" 15="" configs="" selected="" but="" factors="" inhibits=""
are="" not="" active="" set="" 'applyprescales'="" activate="" them="" read="" filter="" configuration=""
for="" mode="" 0="" handler="" 1="" file="" afs="" slac="" g="" glast="" moot="" archive-mood="" constit=""
2012-07="" gfc_db="" 00000248-gamma_normal.xml="" input="" prescale="" output="" prescales="" line="" 0=""
off="" 1="" 2="" 3="" 4="" 5="" 6="" 7="" 8="" 9="" 10="" 11="" 12="" 13="" 14="" 15="" 16="" 17=""
="" 18="" 19="" 20="" 21="" 22="" 23="" 24="" 25="" 26="" 27="" 28="" 29="" 30="" 31="" sampler=""
file="" 5="" xfc_db="" 00000267-dgn_gem.xml="" 250="" 4="" 0000026d-hip_normal.xml="" initializing=""
settings="" has="" gamma_normal="" as="" active="" hip_normal="" dgn_gem="" loading="" ggfc="" (failed)=""
gamma_master="" (succeeded)="" gamma_normal_leak="" gamma_low_veto="" gamma_normal_10gev="" gamma_calib=""
gamma_calib_leak="" gamma_calib_a="" gamma_calib_a_leak="" gamma_eff="" gamma_eff_taper="" moot="" mode=""
associated="" with="" configuration="" received="" request="" change="" efc_db_mode_k_normal="" gamma=""
setup="" fsw="" release="" b3-1-1="" using="" gamma_db_instance_k_normal="" gmfc="" mip_master=""
mip_off_axis="" mip_eff_off_axis="" mip_eff_taper_off_axis="" mip_all_axis="" mip=""
mip_db_instance_k_all_axis="" ghfc="" hip_master="" hip_leo="" hip_eff="" hip_eff_taper="" hip=""
hip_db_instance_k_normal="" gdfc="" dgn_master="" dgn_primitive="" dgn_tkr="" dgn_ground_hi="" dgn_gem_500=""
dgn_gem_1000="" diagnostic="" dgn_db_instance_k_gem="" detected="" metaevent="" datagram="" changing="" -1=""
mootsv="" closed="" connection="" db="" ldf="" ebfeventparser="" reported="" bad="" status="" 0x2c2="706" event:
="" 107216="" apid="" 956="" event="" summary="" error="" flag="" set="" index="" 58="" warning="" acd=""
pmt="" that="" is="" tile="" or="" ribbon="" messages="" will="" be="" suppressed="" this="" point="" 113543=""
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163917="" 11489="" 163958="" 11501="" 168605="" 12448="" 169983="" 12701="" 177236="" 14175="" 179417="" 14646=""
180691="" 14898="" 181876="" 15149="" 184317="" 15604="" 188004="" 16352="" 192323="" 17170="" 192955="" 17299=""
193220="" 17348="" 199004="" 18493="" 199005="" 18494="" 201147="" 18896="" 201610="" 19001="" 205895="" 19892=""
206911="" 20093="" 207698="" 20256="" 209846="" 20683="" 218013="" 22309="" 223128="" 23343="" 224441="" 23631=""
232021="" 25129="" 242403="" 27207="" 244946="" 27739="" 249220="" 28628="" 249365="" 28664="" 254019="" 29588=""
255346="" 29845="" 258281="" 30453="" 261743="" 31137="" 263767="" 31555="" 268610="" 32544="" 269265="" 32668=""
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305666="" 39961="" 306975="" 40211="" 311585="" 41169="" 313202="" 41513="" 315978="" 42067="" eventselector=""
last="" found="" source="" exhausted="" processed="" 42335="" containing="" events="" eventloopmgr="" more=""
in="" selection="" applicationmgr="" application="" manager="" stopped="" totals="" triggered="" processed=""
bit="" frequency="" all="" value="" count="" calhi="" callo="" -----="" 512="" 29823="" 1299=""
```

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3944="" 978="" 46="" 658="" 3668="" 18="" 19="" 23="" 163="" 31="" 1194="" tot:="" 1404="" 5566="" 10654=""
41774="" 7348="" ebfwriter="" wrote="" total="" --="" word="" frequency="" table="" gfc_v3_status_m_gem_throttle=""
7085" gfc_v3_status_m_gem_tkr="42059" gfc_v3_status_m_gem_callo="10632" gfc_v3_status_m_gem_calhi="5716"
gfc_v3_status_m_gem_cno="1404" gfc_v3_status_m_acd_top="6876" gfc_v3_status_m_acd_side="13944"
gfc_v3_status_m_acd_side_filter="7125" gfc_v3_status_m_tkr_eq_1="9760" gfc_v3_status_m_tkr_ge_2="12223"
gfc_v3_status_m_rsvd_10="0" gfc_v3_status_m_tkr_lt_2_el0="2963" gfc_v3_status_m_tkr_skirt="9"
gfc_v3_status_m_tkr_eq_0="14" gfc_v3_status_m_tkr_row2="22" gfc_v3_status_m_tkr_row01="27"
gfc_v3_status_m_tkr_top="90" gfc_v3_status_m_side="51" gfc_v3_status_m_top="60" gfc_v3_status_m_zbottom="20"
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hfc_status_m_stage_cal_chk="1359" hfc_status_m_stage_cal_lchk="401" hfc_status_m_multi_pkt="1128"
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hfc_status_m_rsvd_10="0" hfc_status_m_rsvd_11="0" hfc_status_m_rsvd_12="0" hfc_status_m_rsvd_13="0"
hfc_status_m_rsvd_14="0" hfc_status_m_rsvd_15="0" hfc_status_m_rsvd_16="0" hfc_status_m_rsvd_17="0"
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45" hfc_status_m_gem_nocno="40931" hfc_status_m_vetoed="42124" dfc="" dfc_status_m_stage_gem="" veto="" name=""
dfc_status_m_gem_classes="" dfc_status_m_vetoed="" encountered="" ebf="" toolsvc="" removing="" tools=""
created="" *****chrono*****=""
*****="" the=""
final="" cpu="" consumption="" (=="" chrono="" (ordered)="" chronostatsvc="" time="" user="" :="" tot="58.7" [s]
="" system="" timeelapsed="" chronostatsvc.f...="" service="" finalized="" terminated="" current="" time=""
sat="" mar="" 17:53:15="" 2024="" 60="" s="" elapsed)="" -----="" end="" log="" ended="" at="" raw=""
exit="" code="0" cpu="" 0.000000="" wall="" 61.156700="" commentary="" failed!="" traceback="" (most=""
recent="" call="" last)="" ""="" pipelineconfig="" l1proc="" 6.0="" genericscript.py",="" 140="" trytocall=""
**kwargs)="" digitize.py",="" 54,="" digitize="" chunkevents="" rootFiles.getFileEvents(stagedDigiFile)" nameerror:
="" global="" 'rootfiles'="" defined="" %debug="" 20240309:17:53:15="" stagefiles(finish)="" line-333=""
entering="" stage.finish(wipe)="" line-341="" *****="" %info="" line-
345="" deleting="" staging="" directory="" without="" retrieving="" files="" %warning="" stagefiles(_removedir)
="" line-389="" empty="" after="" cleanup!="" line-390="" content="" of="" scratch="" 329289="" 173700="" -rw-r--
r--="" glastraw="" glast-pipeline="" 113368436="" 17:52="" r0682587162_e000000000000000106956_v3140180_event.
evt="" 64499452="" 17:53="" r0682587162_e000000000000000106956_v3142804_digi.root="" line-392="" ***="" files=""
&="" directories="" deleted!="" start="" run="" [rm="" -rf="" 329289]="" 0.007522="" cleanup=""
===== filesystem="" size="" used="" avail="" use%="" mounted="" dev="" sda1="" 16m="" 12k="" 1%
="" dirs="" Nothing" remove="" ===== finish="" <="" pre="">
</vend><</vend>></vend>></vend>>

```

However, looking at the file directly, we see that the correct query is being issued:

```

SELECT ser_no FROM metadata_v2r1 WHERE ((completion="OK") AND (instrument="LAT") AND (calib_type="CAL_Ped") AND
(flavor="L1current") AND ("2022-08-19 07:32:45">=vstart) AND ("2022-08-19 07:32:45"<=vend) AND ("PROD"
=PROC_LEVEL)) ORDER BY update_time desc

```

This is preventing us from debugging L1Proc on s3df in an efficient manner. We've just wasted a couple of weeks chasing down a non-existent issue with Gleam