QGIS Application - Bug report #21513
MDAL: crashes when zooming on EPSG:4326

2019-03-07 08:16 PM - Paolo Cavallini

Status:	Open		
Priority:	High		
Assignee:	Peter Petrik		
Category:	Mesh layers		
Affected QGIS version:	3.6.0	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	
Crashes QGIS or corrupts data:	Yes	**Copied to github as #:**	29330

Description

- open QGIS 3.6
- type 'woorld' in the ccod box, to load a world map in 4326
- load the file: https://www.faunalia.eu/~paolo/20190307_190528_GFS_P25_.grb2
- QGIS crashes

All from Debian sid, up to date.

History

#1 - 2019-03-07 08:28 PM - Giovanni Manghi

- Crashes QGIS or corrupts data changed from No to Yes

#2 - 2019-03-08 12:45 PM - Peter Petrik

unable to replicate on MacOS 3.7 master(GDAL 2.4.0).

#3 - 2019-03-08 12:48 PM - Paolo Cavallini

gdal 2.4.0+dfsg-1+b1 here

#4 - 2019-03-08 01:12 PM - salvatore fiandaca

I confirm on Win 10 64x - OSGeo4W Network Installer

----- QGIS Version: 3.6.0-Noosa

Crash ID: f936d78bf3c189271f0f1a8c90c56902c577999b

Stack Trace

QgsMeshLayer::writeXml :
QgsSingleBandPseudoColorRenderer::block :
QgsMeshUtils::exportRasterBlock :
QgsMeshUtils::exportRasterBlock :
QgsMapRendererParallelJob::renderLayerStatic :
QgsMapRendererParallelJob::renderingFinished :
QgsMapRendererParallelJob::renderingFinished :
QgsArchive::zip :

QtConcurrent::ThreadEngineBase::run :
QThreadPoolPrivate::reset :
QThread::start :
BaseThreadInitThunk :
RtlUserThreadStart :

QGIS Info
QGIS Version: 3.6.0-Noosa
QGIS code revision: 58734527ab
Compiled against Qt: 5.11.2
Running against Qt: 5.11.2
Compiled against GDAL: 2.4.0
Running against GDAL: 2.4.0

System Info
CPU Type: x86_64
Kernel Type: winnt
Kernel Version: 10.0.17134

--- QGIS Version: 3.7.0-Master

Crash ID: 9f6eebf80cd342a7293d3af975b876a4ffeca905

Stack Trace

QgsPalettedRasterRenderer::setLabel :
QgsPalettedRasterRenderer::setLabel :
QgsPalettedRasterRenderer::setLabel :
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QgsPalettedRasterRenderer::setLabel :
QtConcurrent::ThreadEngineBase::run :
QThreadPoolPrivate::reset :
QThread::start :
BaseThreadInitThunk :
RtlUserThreadStart :

QGIS Info
QGIS Version: 3.7.0-Master
QGIS code revision: f87c447d34
Compiled against Qt: 5.11.2
Running against Qt: 5.11.2
Compiled against GDAL: 2.4.0
Running against GDAL: 2.4.0

System Info
CPU Type: x86_64
Kernel Type: winnt
Kernel Version: 10.0.17134

#5 - 2019-03-08 02:59 PM - Alberto Grava

- File Schermata del 2019-03-08 14-55-28.png added

qgis 3.6 on ubuntu 18.04
it doesnt' crash
the result is in the img

#6 - 2019-03-08 03:15 PM - Paolo Cavallini

Which version of GDAL?

#7 - 2019-03-08 05:04 PM - matteo ghetta

Confirmed also on 3.7. This the stack trace I have:

```
[Thread debugging using libthread_db enabled]
Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".
0x00007fa39b54db49 in GI_poll (fds=0x5642328dc0b0, nfds=9, timeout=39) at ../sysdeps/unix/sysv/linux/poll.c:29
29    ../sysdeps/unix/sysv/linux/poll.c: No such file or directory.
[Current thread is 1 (Thread 0x7fa38fbc6dc0 (LWP 16693))]
#0  0x00007fa39b54db49 in GI_poll (fds=0x5642328dc0b0, nfds=9, timeout=39) at ../sysdeps/unix/sysv/linux/poll.c:29
      resultvar = 18446744073709551100
      sc_cancel_oldtype = 0
      sc_ret = <optimized out>
#1  0x00007fa3996cf136 in ?? () from /usr/lib/x86_64-linux-gnu/libglib-2.0.so.0
No symbol table info available.
#2  0x00007fa3996cf25c in g_main_context_iteration () from /usr/lib/x86_64-linux-gnu/libglib-2.0.so.0
No symbol table info available.
#3  0x00007fa39bbfe233 in QEventDispatcherGlib::processEvents(QFlags<QEventLoop::ProcessEventsFlag>) () from
/usr/lib/x86_64-linux-gnu/libQt5Core.so.5
No symbol table info available.
#4  0x00007fa38ec79ee1 in ?? () from /usr/lib/x86_64-linux-gnu/libQt5XcbQpa.so.5
No symbol table info available.
#5  0x00007fa39bbab25b in QEventLoop::exec(QFlags<QEventLoop::ProcessEventsFlag>) () from /usr/lib/x86_64-linux-gnu/libQt5Core.so.5
No symbol table info available.
#6  0x00007fa39bbb33d2 in QCoreApplication::exec() () from /usr/lib/x86_64-linux-gnu/libQt5Core.so.5
No symbol table info available.
#7  0x000056422c3eaf97 in main ()
No symbol table info available.
[Inferior 1 (process 16693) detached]
gdb returned 0
Aborted
```

#8 - 2019-03-08 05:08 PM - Paolo Cavallini

Confirmed also on 3.7. It is crucial to be on 4326, on the native custom grib projection it does not crash.

#9 - 2019-03-08 05:09 PM - Paolo Cavallini

- Subject changed from MDAL: crashes when zooming to MDAL: crashes when zooming on EPSG:4326

#10 - 2019-03-08 06:00 PM - Paolo Cavallini

```
HDF5-DIAG: Error detected in HDF5 (1.10.4) thread 140444942708288:
  #000: ../../../src/H5F.c line 509 in H5Fopen(): unable to open file
    major: File accessibilty
    minor: Unable to open file
  #001: ../../../src/H5Fint.c line 1400 in H5F__open(): unable to open file
    major: File accessibilty
    minor: Unable to open file
  #002: ../../../src/H5Fint.c line 1700 in H5F_open(): unable to read superblock
    major: File accessibilty
    minor: Read failed
  #003: ../../../src/H5Fsuper.c line 411 in H5F__super_read(): file signature not found
    major: File accessibilty
    minor: Not an HDF5 file
NetCDF: Unknown file format
NetCDF: Unknown file format
```

#11 - 2019-03-08 07:13 PM - Peter Petrik

ok now I can reproduce it!

#12 - 2019-03-08 07:13 PM - Peter Petrik

- Assignee set to Peter Petrik

#13 - 2019-03-15 10:11 AM - Peter Petrik

- Category changed from Data Provider/MDAL to Mesh layers

#14 - 2019-03-15 11:03 AM - Peter Petrik

looks like QgsMeshLayerRenderer::calculateOutputSize produces non-sense (large negative) width and height values for display size. If same layer is loaded as raster it works nicely.

Files

Schermata del 2019-03-08 14-55-28.png	318 KB	2019-03-08	Alberto Grava