

DCMTK - Bug #984

Problem in DCMTK 3.6.6 with double call of DcmPixelData::decode()

2021-04-26 12:29 - Jörg Riesmeier

Status:	Closed	Start date:	2021-04-26
Priority:	Normal	Due date:	
Assignee:	Marco Eichelberg	% Done:	100%
Category:	Library	Estimated time:	3:00 hours
Target version:	3.6.7	Compiler:	
Module:	dcmdata, dcmimgle		
Operating System:			
Description			
With commit 0e8fae86ca, DCMTK issue #845 has been fixed but at the same time it is not possible any longer to "decode" the pixel data of a DICOM image twice.			
The following sample program demonstrates this issue. It was provided by Daniel Grieger <Daniel.Grieger/at/ith-icoserve/dot/com> who also reported this bug:			
<pre>#include <iostream> #include <dcmtdk/dcmdata/dcmfilefo.h> #include <dcmtdk/dcmimgle/dcmimage.h> #include <dcmtdk/dcmjpeg/djencode.h> #include <dcmtdk/dcmjpeg/djdecode.h> int main() { DJEncoderRegistration::registerCodecs(); DJDecoderRegistration::registerCodecs(EDC_lossyOnly, EUC_default, EPC_colorByPixel, false); const std::shared_ptr<DcmFileFormat> dcmFileFormat = std::make_shared<DcmFileFormat>(); std::cout << std::string(dcmFileFormat->loadFile(OFFilename("test.dcm")).text()) << std::endl; const std::shared_ptr<DicomImage> dicomImage1 = std::make_shared<DicomImage>(dcmFileFormat->ge tDataset(), dcmFileFormat->getDataset()->getCurrentXfer()); std::cout << std::string(DicomImage::getString(dicomImage1->getStatus())) << std::endl; const std::shared_ptr<DicomImage> dicomImage2 = std::make_shared<DicomImage>(dcmFileFormat->ge tDataset(), dcmFileFormat->getDataset()->getCurrentXfer()); std::cout << std::string(DicomImage::getString(dicomImage2->getStatus())) << std::endl; DJEncoderRegistration::cleanup(); DJDecoderRegistration::cleanup(); return 0; }</pre>			
The output with the current DCMTK 3.6.6 is the following:			
<pre>Normal Status OK E: no pixel data found in DICOM dataset Missing attribute</pre>			
With DCMTK 3.6.5 (i.e. before the above mentioned commit) the output was:			
<pre>Normal Status OK Status OK</pre>			
More details can be found in his email from 2021-04-06.			

Related issues:

Related to DCMTK - Feature #997: Revise mechanism to compress/decompress pixe...

New**2021-07-07****History**

#1 - 2021-07-06 20:02 - Marco Eichelberg

- *Status changed from New to Closed*
- *Assignee set to Marco Eichelberg*
- *% Done changed from 0 to 100*
- *Estimated time set to 3:00 h*
- *Module changed from dcmdata to dcmdata, dcmimgle*

Closed by commit #d1a561752.

#2 - 2021-07-07 10:51 - Jörg Riesmeier

- *Related to Feature #997: Revise mechanism to compress/decompress pixel data added*