
Subject: Re: Problem reading DICOM files with IDL
Posted by [Wonko\[3\]](#) on Wed, 30 Jul 2003 13:38:00 GMT
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nuno@ibili.uc.pt (Nuno Ferreira) writes:

- > Are you aware of a DICOM viewer that reads compressed DICOM files and
- > creates uncompressed files compatible with IDL? Do you have other ideas?
- > Thanks in advance...

The Dicom Toolkit (DCMTK) from Offis (<http://dicom.offis.de/>) can do this. These are many command line utilities, available for Win32, Linux and Solaris in binary format, and as well as source code. What you need is the dcmdjpeg utility.

```
wonko@weird wonko $ dcmdjpeg --help
$dcmtk: dcmdjpeg v3.5.2 2002-12-23 $
```

dcmdjpeg: Decode JPEG-compressed DICOM file
usage: dcmdjpeg [options] dcmfile-in dcmfile-out

parameters:

dcmfile-in	DICOM input filename to be converted
dcmfile-out	DICOM output filename

general options:

-h	--help	print this help text and exit
	--version	print version information and exit
-v	--verbose	verbose mode, print processing details
-d	--debug	debug mode, print debug information

processing options:

color space conversion options:

+cp	--conv-photometric	convert if YCbCr photom. interpr. (default)
+cl	--conv-lossy	convert YCbCr to RGB if lossy JPEG
+ca	--conv-always	always convert YCbCr to RGB
+cn	--conv-never	never convert color space

planar configuration options:

+pa	--planar-auto	automatically determine planar configuration from SOP class and color space (default)
+px	--color-by-pixel	always store color-by-pixel
+pl	--color-by-plane	always store color-by-plane

SOP Instance UID options:

+ud	--uid-default	keep same SOP Instance UID (default)
+ua	--uid-always	always assign new UID

output options:

output file format:

+F	--write-file	write file format (default)
-F	--write-dataset	write data set without file meta information

output transfer syntax:

- +te --write-xfer-little write with explicit VR little endian (default)
- +tb --write-xfer-big write with explicit VR big endian TS
- +ti --write-xfer-implicit write with implicit VR little endian TS

post-1993 value representations:

- +u --enable-new-vr enable support for new VRs (UN/UT) (default)
- u --disable-new-vr disable support for new VRs, convert to OB

group length encoding:

- +g= --group-length-recalc recalculate group lengths if present (default)
- +g --group-length-create always write with group length elements
- g --group-length-remove always write without group length elements

length encoding in sequences and items:

- +e --length-explicit write with explicit lengths (default)
- e --length-undefined write with undefined lengths

data set trailing padding (not with --write-dataset):

- p= --padding-retain do not change padding
(default if not --write-dataset)
- p --padding-off no padding (implicit if --write-dataset)
- +p --padding-create [f]ile-pad [i]tem-pad: integer
align file on multiple of f bytes
and items on multiple of i bytes

Alex

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