
Subject: DICOM updater

Posted by [Robert Barnett](#) on Wed, 06 Jul 2005 07:45:49 GMT

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Hello everyone,

Some time ago Bhautik posted dicom_writer.pro to this newsgroup.

I've been really keen to find a way to export DICOM Path 10 compliant images without requiring any additional licensing. I've been chasing a few ways to implement a proper DICOM writer in IDL. I've dabbled with compiling some existing C++ DICOM utilities as shared objects, however, I've found that it is very difficult to write the external interfaces and it can be difficult to get the utilities to compile correctly on all platforms.

Most of my image processing only involves manipulating the pixeldata from existing files. Thus, I reasoned that I only need to find the offset of the pixeldata and then I can just use the IDL assoc function to do the rest.

I have chosen to release a preliminary version of this "DICOM updater"

<http://www.zipworld.com.au/~retsil/released/dcmupdate0.1.1.zip>

<http://www.zipworld.com.au/~retsil/released/dcmupdate0.1.1.tar.gz>

This code will only be available here for a limited time, and will eventually be available via the ANZSNM website

(<http://www.anzsnm.org.au/ftp/idl/>)

I've included a set of test images (courtesy of the GDCM project) with the updater. The updater will only process non-compressed images which contains all the useful image data in a single pixeldata tag (7fe0,0010).

I've also included my dcmTk wrapper code. The DCMTK project by OFFIS software (www.dcmTk.org) is a set of useful binaries for examining, constructing and converting DICOM image files. You might find that DCMTK is useful for setting the patient demographics via the 'dcmodify' command. The wrapper code is simply a standard way for spawning these binaries in a platform independant way. I'm still working on compiling DCMTK as shared objects so as to avoid spawning a shell for each binary.

While I'm here, I should do a quick plug for some of my other code:

A FTP client

<http://www.rsinc.com/codebank/search.asp?FID=341>

Utility for the e.soft Workstation - Broker Activity

<http://www.rsinc.com/codebank/search.asp?FID=359>

Cheers,

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