DCMTK - Bug #940

CANONICAL_HOST_TYPE on Windows has confusing value

2020-08-14 09:55 - Marco Eichelberg

Status:	Closed	**Start date:**	2020-08-14
Priority:	Normal	**Due date:**	
Assignee:	Nikolas Goldhammer	**% Done:**	0%
Category:		**Estimated time:**	0:00 hour
Target version:	3.6.7		
Module:	CMake	**Compiler:**	
Operating System:			

Description

When compiling 32-bit Binaries on Windows, the output for example of dcmdump --version shows:

```
$dcmtk: dcmdump v3.6.5 2019-10-28 $

dcmdump: Dump DICOM file and data set

Host type: AMD64-Windows
Character encoding: CP1252
Code page: 850 (OEM) / 1252 (ANSI)
```

Note that AMD64 is shown as host type despite the binary being a 32-bit binary. This is confusing.
Apparently the CMake variable SYSTEM_PROCESSOR has the value "AMD64" when compiling for Windows, even though 32-bit binaries are generated.

An alternative could be to use the CMake variable CMAKE_GENERATOR_PLATFORM instead of SYSTEM_PROCESSOR when available.
On Visual Studio, this would have the value "Win32" for 32-bit builds and "x64" for 64-bit builds.

History

#1 - 2021-11-12 11:31 - Michael Onken

- Assignee set to Nikolas Goldhammer

- Target version set to 3.6.7

#2 - 2021-11-16 11:53 - Jan Schlamelcher

- Status changed from New to Closed

Closed by commit #2de650d51be604dcc7d. There remains a potential issue with regard to NMake Makefiles: the current fix would interpret an ARM target as Win32 or x64 depending on the size of void*. This is an edge case and probably not important. Nikolas will try to find a solution for it anyhow, the current implementation is still sufficient to close this issue though.