

DBMaker/DBMaster FAQ Document

Question:

How to make the MFCOBOL Compatible with Visual COBOL?

Answer:

We found some errors (such as "Not support N type in Visual Cobol "," 114 Error") will be faced when compile COBOL PROGRAM after replace Micro Focus Net Express to Visual COBOL," so following 4 points need to pay attention when compile COBOL PROGRAM with Visual COBOL.

- Environment Variables

On 32 bit Windows

```
set path=%path%;C:\Program Files\Micro Focus\Visual COBOL 2010\bin
```

On 64 bit Windows

```
set path=%path%;C:\Program Files (x86)\Micro Focus\Visual COBOL 2010\bin64
```

- Microsoft Visual Studio

In Net Express 5.1, VC version is 9.0, and for Visual COBOL 2010R4, the VC version is 10.0. So we must install the right version and set the right PATH to make them work. For example:

On 32 bit Windows

```
call "C:\Program Files\Microsoft Visual Studio 10.0\VC\bin\vcvars32.bat"
copy "C:\Program Files\Microsoft Visual Studio 10.0\VC\lib\oldnames.lib .
```

On 64 bit Windows

```
call "C:\Program Files (x86)\Microsoft Visual Studio
10.0\VC\bin\amd64\vcvars64.bat"
Copy "C:\Program Files (x86)\Microsoft Visual Studio
```

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```
10.0"\\VC\\lib\\amd64\\oldnames.lib .
```

- Definement for N type

```
03 WK-N PIC N(50).
```

```
03 WK-5 PIC N(01).
```

In Net Express 5.1, the N type is defined with 152, in Visual Cobol 2010R4, it's defined with 168. We must add a new type in MFDCI to map it. So only the new version DCI can support N type for Visual Cobol.

- FCD3 option for x32 platform

The File Control Description (FCD) is a data area which contains information about the file in use. There are two versions of the FCD, and which one is used depends on whether your COBOL development environment is running in 32-bit or 64-bit, as shown in the following table:

COBOL Development System	FCD Used
Mainframe Express	FCD2
32-bit Visual COBOL	FCD2
64-bit Visual COBOL	FCD3
.NET Support within Visual COBOL	FCD3
32-bit Server Express	FCD2 or FCD3
64-bit Server Express	FCD3

Because "FCD3" is the default options for Visual Cobol on 32bit/64bit which not same as Net express (use "FCD2" for 32bit and "FCD3 for 64bit). We need compiling with "NOFCD3" option for Visual Cobol on 32 bit OS, otherwise the 114 Error will be faced. Usage as following:

First, add following information in xfd.cfg (User can specify the path for xfd.cfg) file:

```
NOFCD3 CREATEXFD CALLFH "DBMAKETINTF"
```

Then execute cbllink command as below:

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```
cbllink -oTEST.exe -uxfd.cfg -g -b TEST.cbl oldnames.lib dmmfcbl.lib dmdcic.lib  
dmapl52.lib
```

or

```
cbllink -oTEST.exe -u C:\test\xfd.cfg -g -b TEST.cbl oldnames.lib dmmfcbl.lib  
dmdcic.lib dmapl52.lib
```

In addition, we will provide a new DCI lib which uses the NOFCD3 as default option and user don't need add any options.

```
cbllink -oTEST.exe -uxfd.cfg -g -b TEST.cbl oldnames.lib dmmfcbl_fcd3.lib  
dmdcic.lib dmapl52.lib
```

Note 1:

The new lib is only for 32bit platform and it's not compatible with Net Express version (totally different data structure), so we rename the lib name to **dmmfcbl_fcd3.lib**.

Note 2:

If users want to build the COBOL programs to INT or GNT format, because COBOL command cannot identify the NOFCD3 option, please use new lib **dmmfcbl_fcd3.lib** to replace **dmmfcbl.lib** to build runtime to avoid the 114 Error (memory access violation). Usage as following:

Build the DBMAKERINTF.dll

```
cbllink -v -K -L -d -oDBMAKERINTF.dll mfcall.obj oldnames.lib dmmfcbl_fcd3.lib  
dmdcic.lib dmapl52.lib
```

Build the GNT and execute it with DBMAKERINTF.dll.

```
cobol test.cbl CREATEXFD CALLFH "DBMAKERINTF.dll" gnt
```

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Version: DBMaker5.x

Product: Normal /Bundle

Platform: All

Email: <Support_RD@syscom.com.tw>