

How-to build SAP::Rfc on Windows using Visual Studio Express 2005

Visual Studio Express 2005 and PSDK installation

Download and install VSE 2005.

You'll find it at:

<http://msdn.microsoft.com/vstudio/express/visualc/download/>

Download and install the Windows Server 2003 SP1 Platform SDK.

<http://msdn.microsoft.com/vstudio/express/visualc/usingpsdk/>

Set some environment variables

You'll need to set some environment variables to be able to build applications with VSE and the PSDK.

You can start one of the build environment present in the « Start / Programs / Microsoft Platform SDK for Windows Server 2003 SP1 / Open Build Environment Window » menu. I used WinXP 32 bits release.

Then you'll have to set Visual Studio Express environment variables. You can execute « "C:\Program Files\Microsoft Visual Studio 8\VC\vcvarsall.bat" x86 » to do this.

I created a small .bat file to set these variables in one step. My build_env.bat looks like this:

```
SET APPVER=5.01
SET Basemake=C:\Program Files\Microsoft Platform SDK\Include\BKOffice.Mak
SET Bkoffice=C:\Program Files\Microsoft Platform SDK\
SET CPU=i386
SET DevEnvDir=C:\Program Files\Microsoft Visual Studio 8\Common7\IDE
SET FrameworkDir=C:\WINNT\Microsoft.NET\Framework
SET FrameworkSDKDir=C:\Program Files\Microsoft Visual Studio 8\SDK\v2.0
SET FrameworkVersion=v2.0.50727
SET Include=C:\Program Files\Microsoft Visual Studio 8\VC\INCLUDE;C:\Program
Files\Microsoft Platform SDK\Include;
SET INETSDK=C:\Program Files\Microsoft Platform SDK
SET Lib=C:\Program Files\Microsoft Visual Studio 8\VC\LIB;C:\Program
Files\Microsoft Visual Studio 8\SDK\v2.0\lib;C:\Program Files\Microsoft Platform
SDK\Lib;
SET LIBPATH=C:\WINNT\Microsoft.NET\Framework\v2.0.50727
SET MSSdk=C:\Program Files\Microsoft Platform SDK
SET Mstools=C:\Program Files\Microsoft Platform SDK
SET NODEBUG=1
SET Path=C:\Program Files\Microsoft Visual Studio 8\Common7\IDE;C:\Program
Files\Microsoft Visual Studio 8\VC\BIN;C:\Program Files\Microsoft Visual Studio
8\Common7\Tools;C:\Program Files\Microsoft Visual Studio
8\SDK\v2.0\bin;C:\WINNT\Microsoft.NET\Framework\v2.0.50727;C:\Program
Files\Microsoft Visual Studio 8\VC\VCpackages;C:\Program Files\Microsoft Platform
SDK\Bin;C:\Program Files\Microsoft Platform SDK\Bin\WinNT;%PATH%
SET TARGETOS=WINNT
SET VCINSTALLDIR=C:\Program Files\Microsoft Visual Studio 8\VC
SET VS80COMNTOOLS=C:\Program Files\Microsoft Visual Studio 8\Common7\Tools\
SET VSINSTALLDIR=C:\Program Files\Microsoft Visual Studio 8
```

SAP::Rfc download and installation

Download SAP-Rfc-x.xx.tar.gz from the CPAN, extract files (I use 7-zip) and build the module

CD to the SAP-Rfc-x.xx directory

Create the Makefile (the BINARY_LOCATION option helps building a ppm module)
> perl Makefile.PL BINARY_LOCATION=SAP-Rfc-x.xx.tar.gz

Make sure the rfcsdk is found. Using the SAPGui 6.40 I had to uncompress it from a RFC.SAR found on the installation CD-ROM. You'll also find SAPCAR.exe the sap archiver on the same CD.

Answer the questions and check that no librairies other than lm, ldl and lpthread are missing. Look a little bit backwards in the output and you should get a message like this. If you get more librairies listed, your environment is not set properly (PSDK) and it won't build.

Note (probably harmless): No library found for -lm
Note (probably harmless): No library found for -ldl
Note (probably harmless): No library found for -lpthread

Build the module
> nmake

Embed the manifest into the Rfc.dll or your module won't work
> cd blib\arch\auto\SAP\Rfc
> mt.exe -outputresource:Rfc.dll;2 -manifest Rfc.dll.manifest
> cd ..\..\..\..\..\

Test the module
> nmake test

You should see this:

All tests successful.
Files=2, Tests=7, 1 wallclock secs (0.00 cusr + 0.00 csys = 0.00 CPU)

Install the module
> nmake install

Optional: build a ppm module to install it on other computers

Build the SAP-Rfc.ppd file
> nmake ppd

Tar gzip the blib directory named as in BINARY_LOCATION=...
In this how-to: SAP-Rfc-x.xx.tar.gz

Zip the SAP-Rfc.ppd and SAP-Rfc-x.xx.tar.gz

To install it, unzip both files in a directory and run
> ppm install SAP-Rfc.ppd

Visual Studio Express 2005 FAQ

<http://msdn.microsoft.com/vstudio/express/support/faq/>

Olivier Boudry, March 21, 2006.