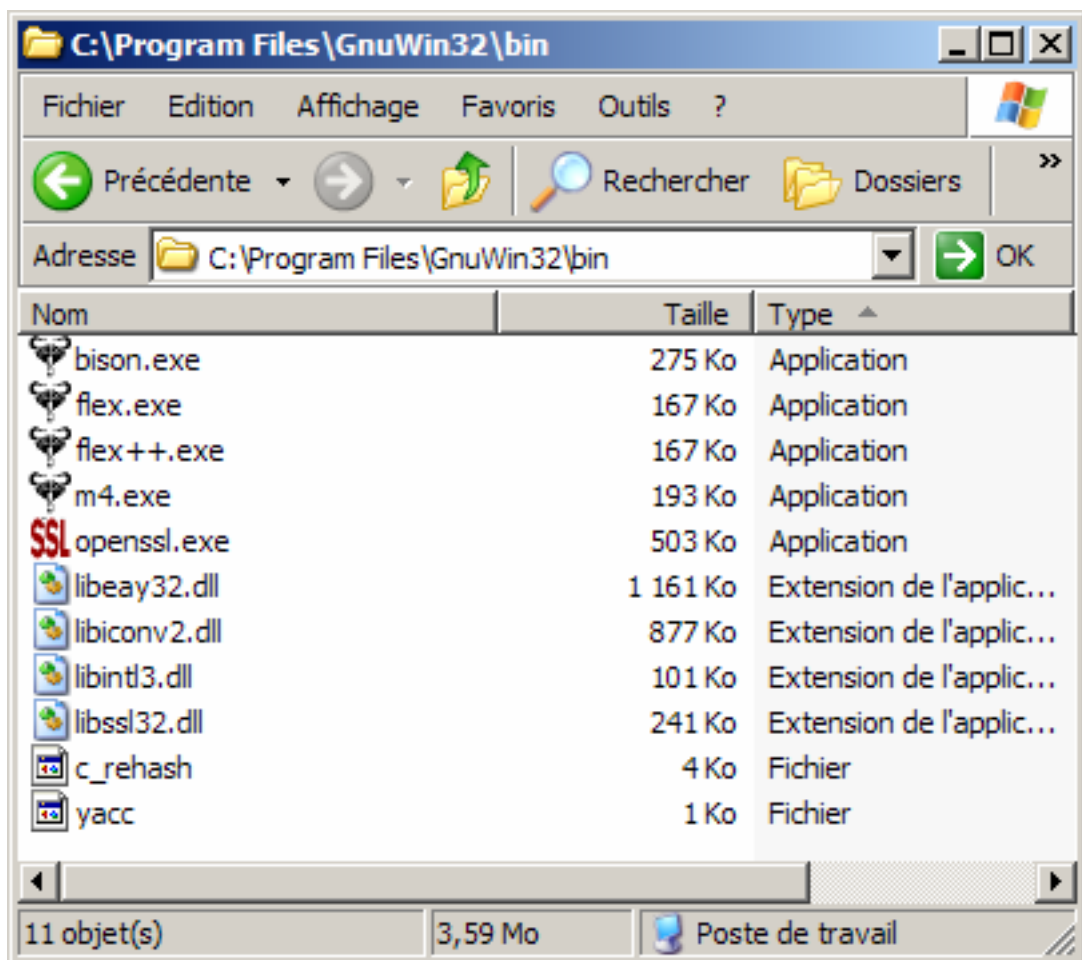


Note for development of CERTI

Guide for the implementation of CERTI from *Savannah*

1/ Tools for the development of CERTI

- CMake for Windows
<http://www.cmake.org/HTML/Download.html>



- Flex/Bison for Windows
<http://gnuwin32.sourceforge.net/packages/bison.htm>
<http://gnuwin32.sourceforge.net/packages/flex.htm>
- m4 : bison needs the installation of this software
<http://gnuwin32.sourceforge.net/packages/m4.htm>
- (option) NSIS for building an Installer:
http://nsis.sourceforge.net/Main_Page
- (option) libxml2 for Windows
<http://www.zlatkovic.com/libxml.en.html>

2/ Download the Source Package

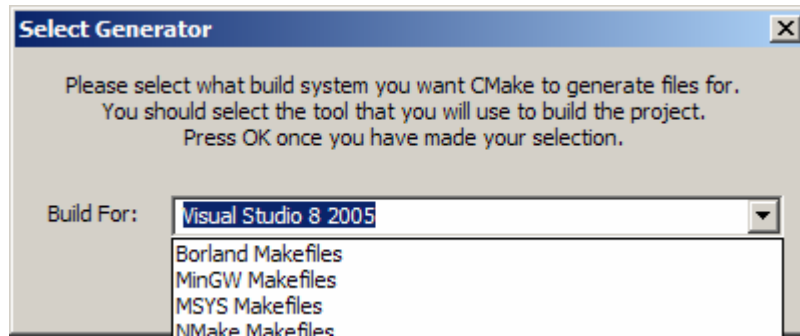
Take a look at <http://download.savannah.gnu.org/releases/certi/> for getting the last package.
Unzip it!

3/ Building : RTIG, RTIA, Federates

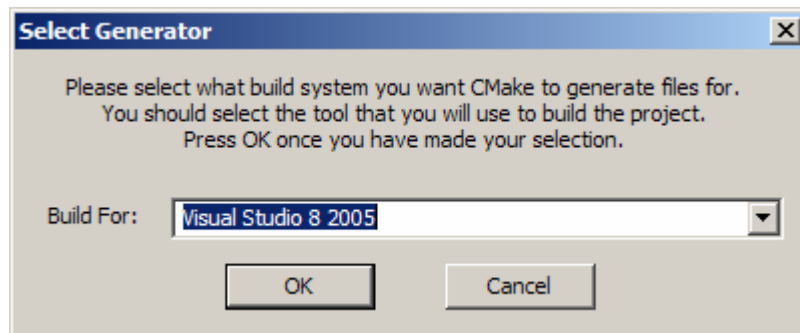
Enter the folder for the source code (here `\certi`, created during the previous step)
Enter the folder for building the programs (here `\tempo`)

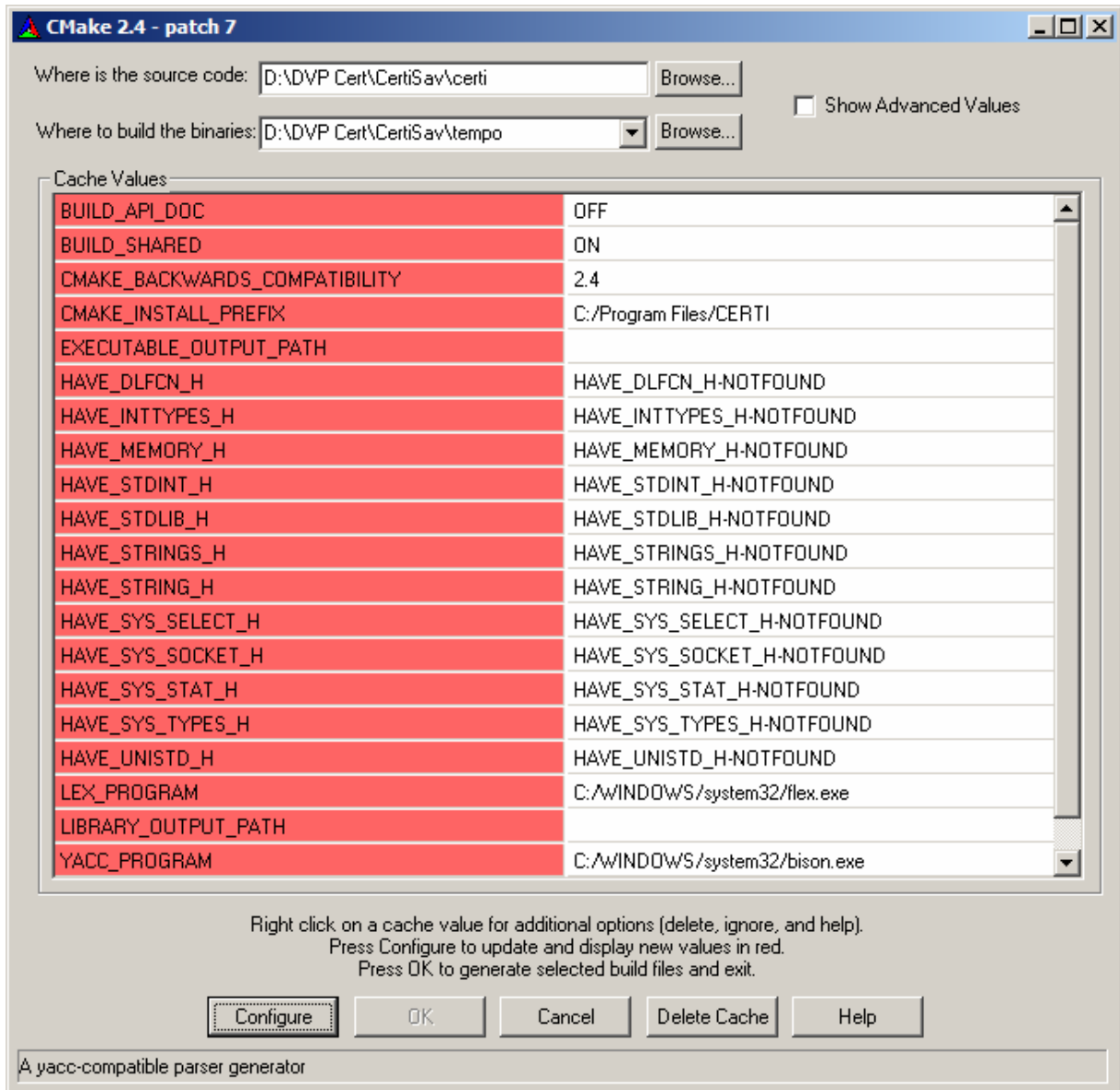


Configure...



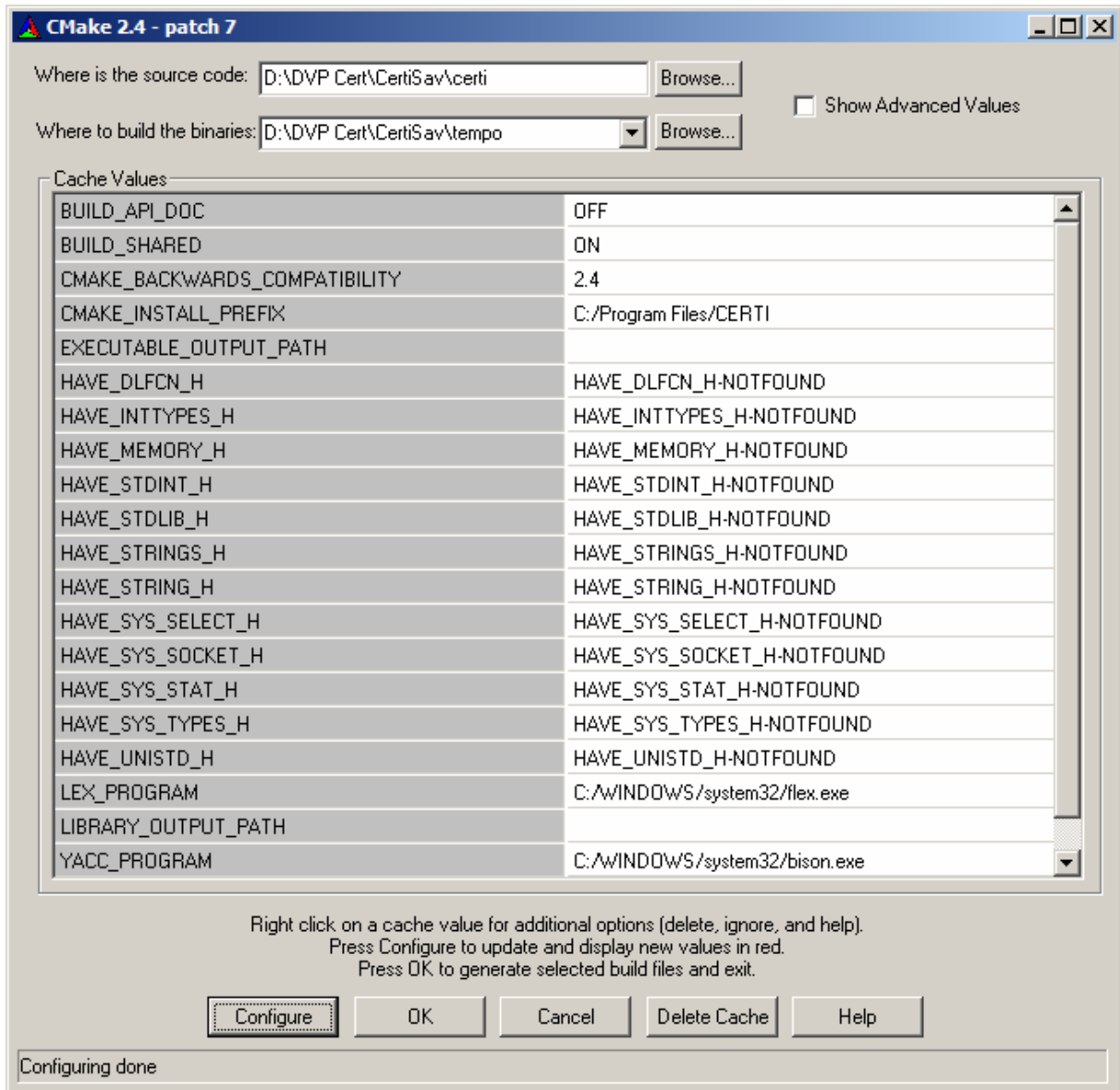
Choose your tool.



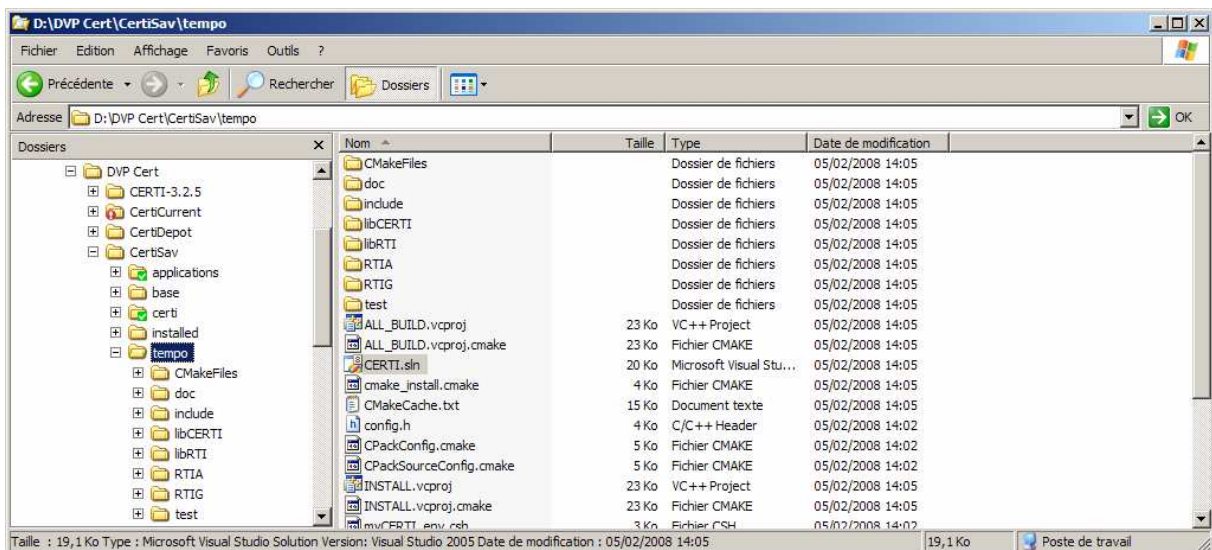


Verify the right addresses for the different tools (flex, bison..) before "Configure" again

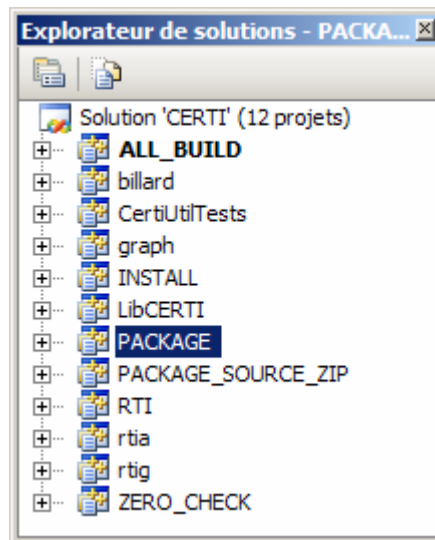
Repeat "Configure" for getting a valid OK box .



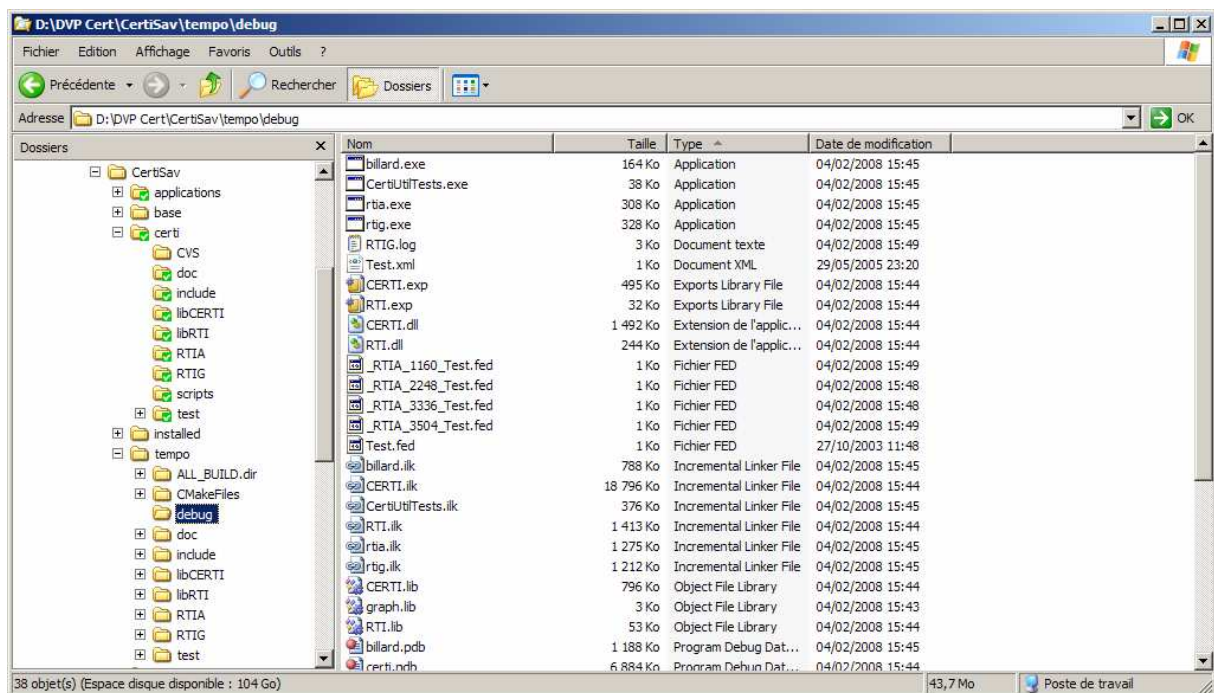
You get a right folder like that:



Launch CERTI.sln (here Visual C++ 2005 version)



Build all... Take a look at your folder ...



4) Check the test out

- open a windows command prompt before running RTIG
- open another windows command prompt before running the billard program.
- Don't forget the parameters : -n 1 fTest FTest.fed

```
C:\WINDOWS\system32\cmd.exe - rtig
D:\DUP Cert\CertiSav\base\debug>rtig
Updating : CERTI_HOME=rtig\
CERTI RTIG 3.2.6cvs - Copyright 2002-2006 ONERA
This is free software ; see the source for copying conditions. There is NO
warranty ; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

CERTI RTIG up and running ...
New federation: Test
Looking for FOM file...
Trying... Test.fed... opened.

<FED
  <federation "Test">
  <FEDversion "v1.3">
  <federate "fed" "Public">
  <spaces
    <space "Geo" <id 1>
      <dimension "X" <id 1>>
      <dimension "Y" <id 2>>>>
  <objects
    <class "ObjectRoot" <id 1>
      <attribute "privilegeToDelete" <id 1> reliable timestamp>
      <class "RTIprivate" <id 2>>
      <class "Bille" <id 3>
        <attribute "PositionX" <id 2> reliable timestamp>
        <attribute "PositionY" <id 3> reliable timestamp>
      <class "Boule" <id 4>
        <attribute "Color" <id 4> reliable timestamp>>>>
  <interactions
    <interaction "InteractionRoot" <id 1> best_effort receive>
    <interaction "RTIprivate" <id 2> best_effort receive>
    <interaction "Bing" <id 3> reliable timestamp>
      <sec_level "Public">
      <parameter "BoulNum" <id 1>>
      <parameter "DX" <id 2>>
      <parameter "DY" <id 3>>>>>

TCP Socket(RecevoirTCP) : No error
RTIG dropping client connection 1860.
TCP Socket 1860 : total = 358267b sent
TCP Socket 1860 : total = 889984b received
UDP Socket 1904 : total = 0b sent
UDP Socket 1904 : total = 0b received
```

```
C:\WINDOWS\system32\cmd.exe
D:\DUP Cert\CertiSav\base\debug>billard -n 1 -fTest -FTest.fed
CERTI Billard 3.2.6cvs
with TIMESTAMP. If you want without TIMESTAMP add -e option.

<FED
  <federation "Test">
  <FEDversion "v1.3">
  <federate "fed" "Public">
  <spaces
    <space "Geo" <id 1>
      <dimension "X" <id 1>>
      <dimension "Y" <id 2>>>>
  <objects
    <class "ObjectRoot" <id 1>
      <attribute "privilegeToDelete" <id 1> reliable timestamp>
      <class "RTIprivate" <id 2>>
      <class "Bille" <id 3>
        <attribute "PositionX" <id 2> reliable timestamp>
        <attribute "PositionY" <id 3> reliable timestamp>
      <class "Boule" <id 4>
        <attribute "Color" <id 4> reliable timestamp>>>>
  <interactions
    <interaction "InteractionRoot" <id 1> best_effort receive>
    <interaction "RTIprivate" <id 2> best_effort receive>
    <interaction "Bing" <id 3> reliable timestamp>
      <sec_level "Public">
      <parameter "BoulNum" <id 1>>
      <parameter "DX" <id 2>>
      <parameter "DY" <id 3>>>>>

Display(400, 25, 500, 100)
Press ENTER to start execution...

Declaration done.

RTIA: Received signal 2. Exiting peacefully.
Exit request received

Exiting.
```