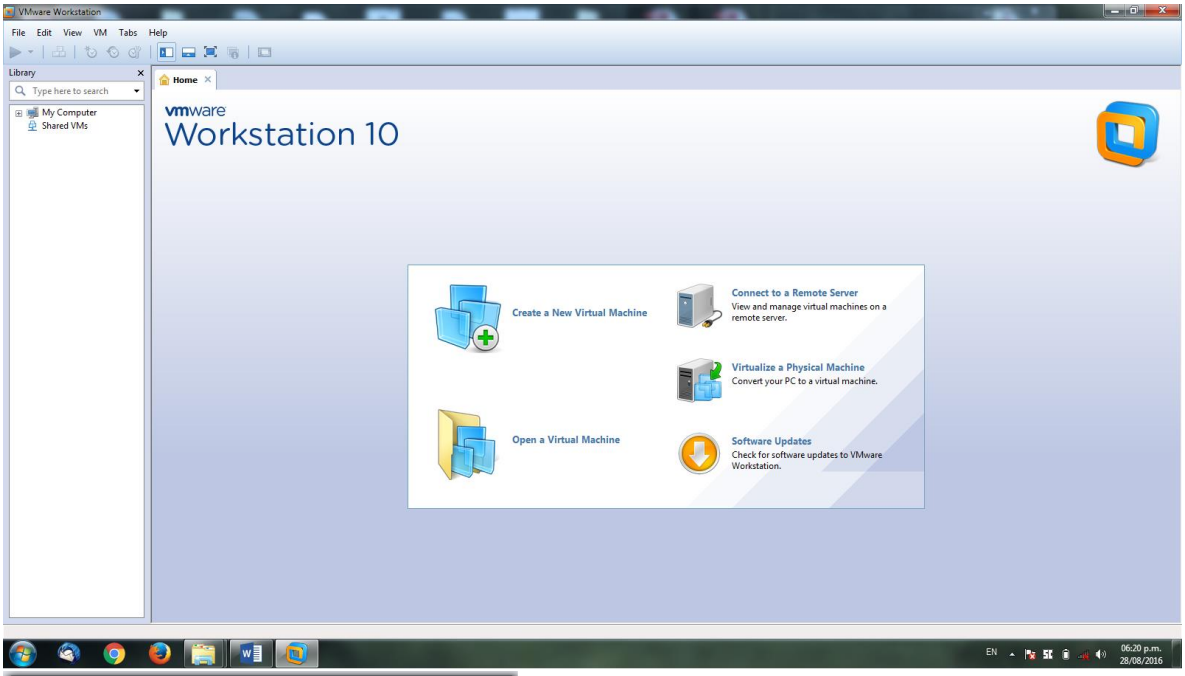
CISIS Compilation Manual

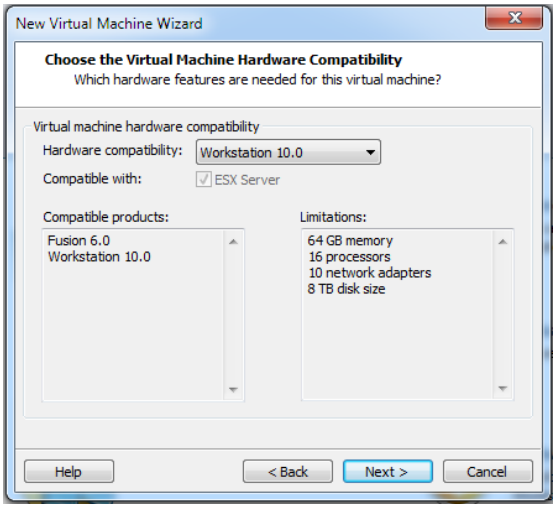
Compilation Environment

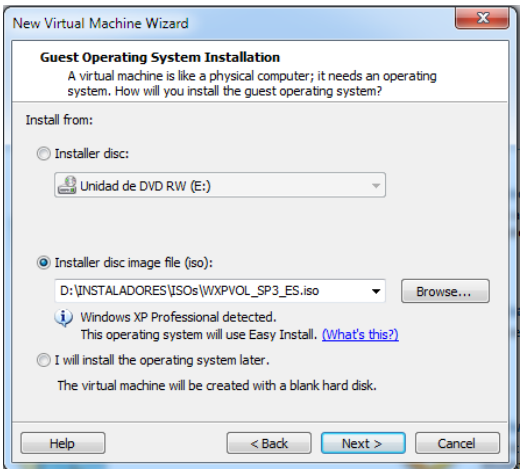
The compilation environment will use Microsoft XP Professional 32bit Operating System with the following software:

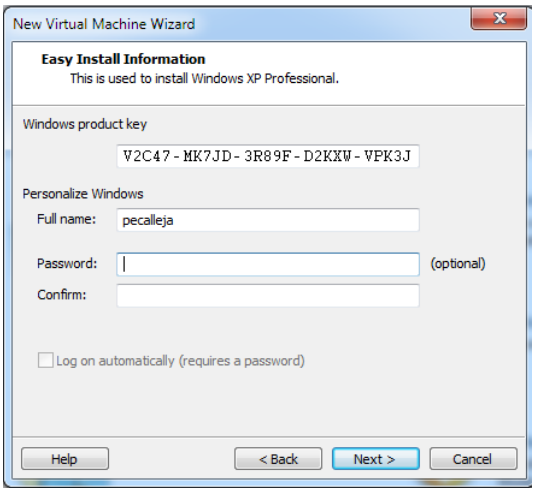
- Winrar
- Borland C++ 5.02 (compiler)
- Codeblock (IDE)
- MinGW (utilities like make, rm, …)

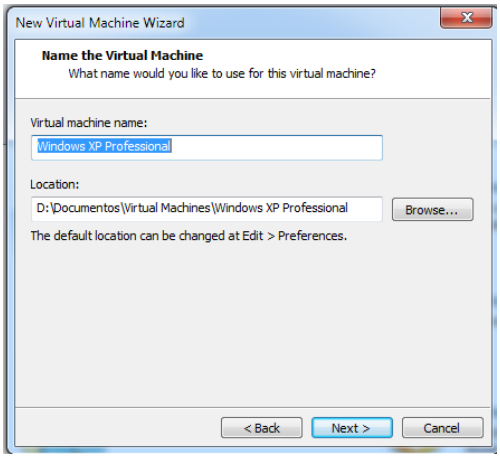
We start with the creation of the Virtual Machine in VMware but other can be used:

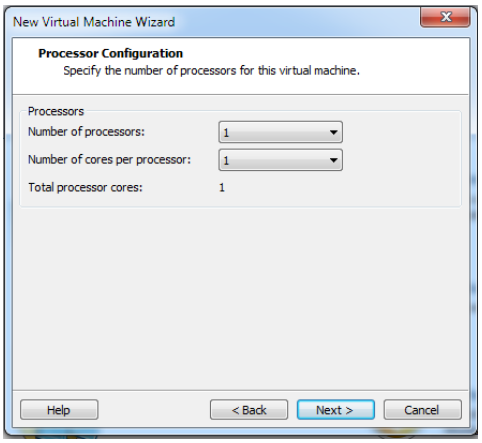


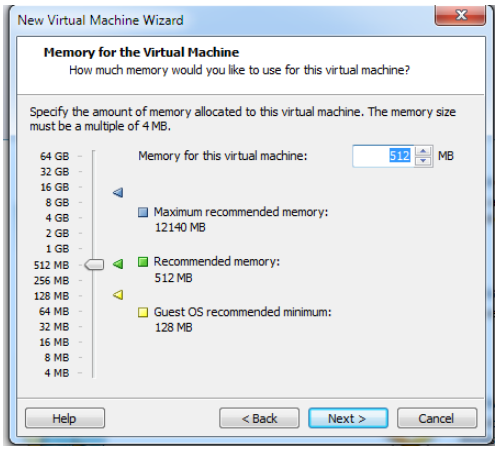

New Virtual Machine Wizard
Choose the Virtual Machine Hardware Compatibility
Which hardware features are needed for this virtual machine?
Virtual machine hardware compatibility
Hardware compatibility:
Workstation 10.0
Compatible with:
ESX Server
Compatible products:
Fusion 6.0
Workstation 10.0
Limitations:
64 GB memory
16 processors
10 network adapters
8 TB disk size
Help
< Back
Next >
Cancel

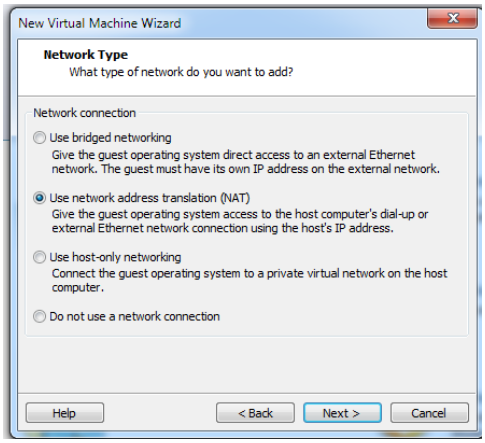

New Virtual Machine Wizard
Guest Operating System Installation
A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?
Install from:
Installer disc:
Unidad de DVD RW (E:)
Installer disc image file (iso):
D:\INSTALADORES\ISOs\WXPVOL_SP3_ES.iso
Browse...
Windows XP Professional detected.
This operating system will use Easy Install. (What's this?)
I will install the operating system later.
The virtual machine will be created with a blank hard disk.
Help
< Back
Next >
Cancel

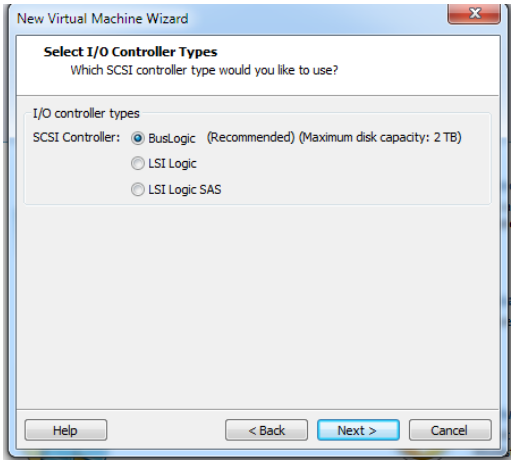

New Virtual Machine Wizard
Easy Install Information
This is used to install Windows XP Professional.
Windows product key
V2C47-MK7JD-3R89F-D2KXW-VPK3J
Personalize Windows
Full name:
pecalleja
Password:
(optional)
Confirm:
Log on automatically (requires a password)
Help
< Back
Next >
Cancel

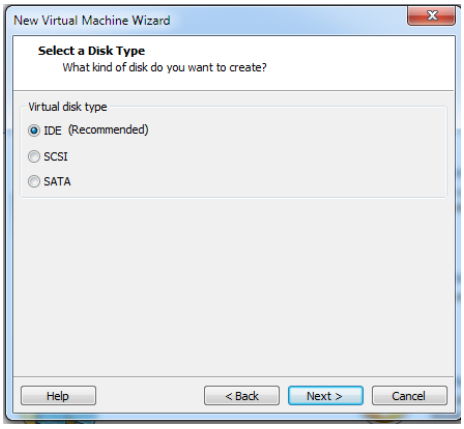

New Virtual Machine Wizard
Name the Virtual Machine
What name would you like to use for this virtual machine?
Virtual machine name:
Windows XP Professional
Location:
D:\Documentos\Virtual Machines\Windows XP Professional
Browse...
The default location can be changed at Edit > Preferences.
< Back
Next >
Cancel

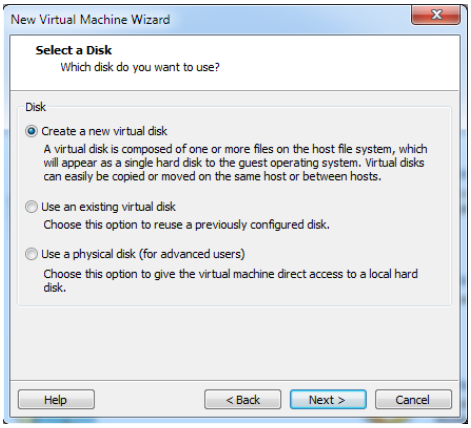

New Virtual Machine Wizard
Processor Configuration
Specify the number of processors for this virtual machine.
Processors
Number of processors:
1
Number of cores per processor:
1
Total processor cores:
1
Help
< Back
Next >
Cancel

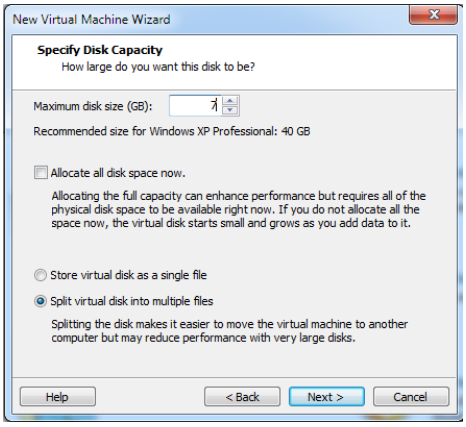

New Virtual Machine Wizard
Memory for the Virtual Machine
How much memory would you like to use for this virtual machine?
Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.
64 GB
32 GB
16 GB
8 GB
4 GB
2 GB
1 GB
512 MB
256 MB
128 MB
64 MB
32 MB
16 MB
8 MB
4 MB
Memory for this virtual machine:
512
MB
Maximum recommended memory:
12140 MB
Recommended memory:
512 MB
Guest OS recommended minimum:
128 MB
Help
< Back
Next >
Cancel

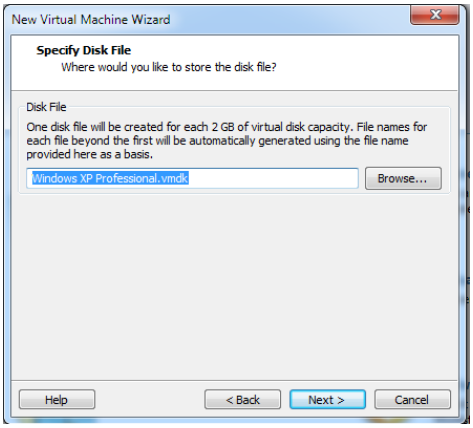

New Virtual Machine Wizard
Network Type
What type of network do you want to add?
Network connection
Use bridged networking
Give the guest operating system direct access to an external Ethernet network. The guest must have its own IP address on the external network.
Use network address translation (NAT)
Give the guest operating system access to the host computer's dial-up or external Ethernet network connection using the host's IP address.
Use host-only networking
Connect the guest operating system to a private virtual network on the host computer.
Do not use a network connection
Help
< Back
Next >
Cancel

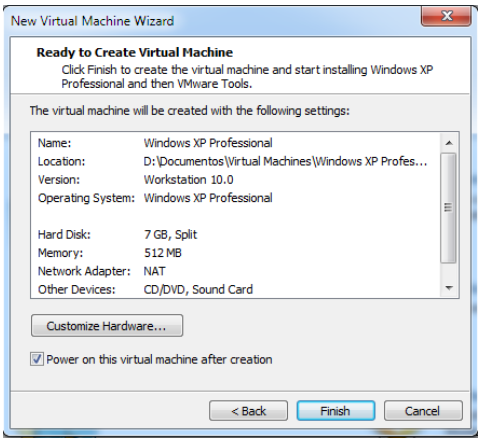

New Virtual Machine Wizard
Select I/O Controller Types
Which SCSI controller type would you like to use?
I/O controller types
SCSI Controller:
BusLogic (Recommended) (Maximum disk capacity: 2 TB)
LSI Logic
LSI Logic SAS
Help
< Back
Next >
Cancel


New Virtual Machine Wizard
Select a Disk Type
What kind of disk do you want to create?
Virtual disk type
IDE (Recommended)
SCSI
SATA
Help
< Back
Next >
Cancel

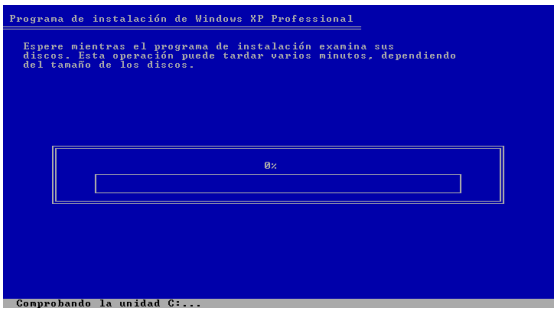

New Virtual Machine Wizard
Select a Disk
Which disk do you want to use?
Disk
Create a new virtual disk
A virtual disk is composed of one or more files on the host file system, which will appear as a single hard disk to the guest operating system. Virtual disks can easily be copied or moved on the same host or between hosts.
Use an existing virtual disk
Choose this option to reuse a previously configured disk.
Use a physical disk (for advanced users)
Choose this option to give the virtual machine direct access to a local hard disk.
Help
< Back
Next >
Cancel

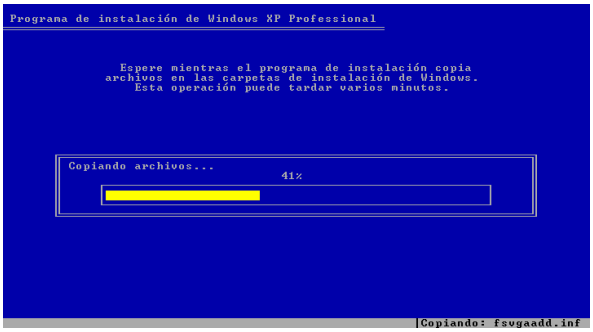

New Virtual Machine Wizard
Specify Disk Capacity
How large do you want this disk to be?
Maximum disk size (GB):
7
Recommended size for Windows XP Professional: 40 GB
Allocate all disk space now.
Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.
Store virtual disk as a single file
Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.
Help
< Back
Next >
Cancel

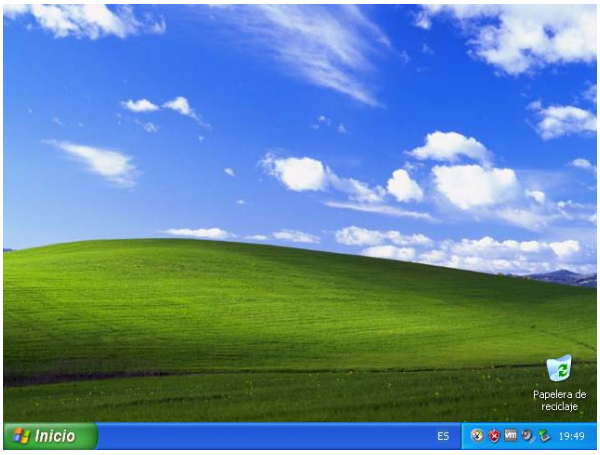




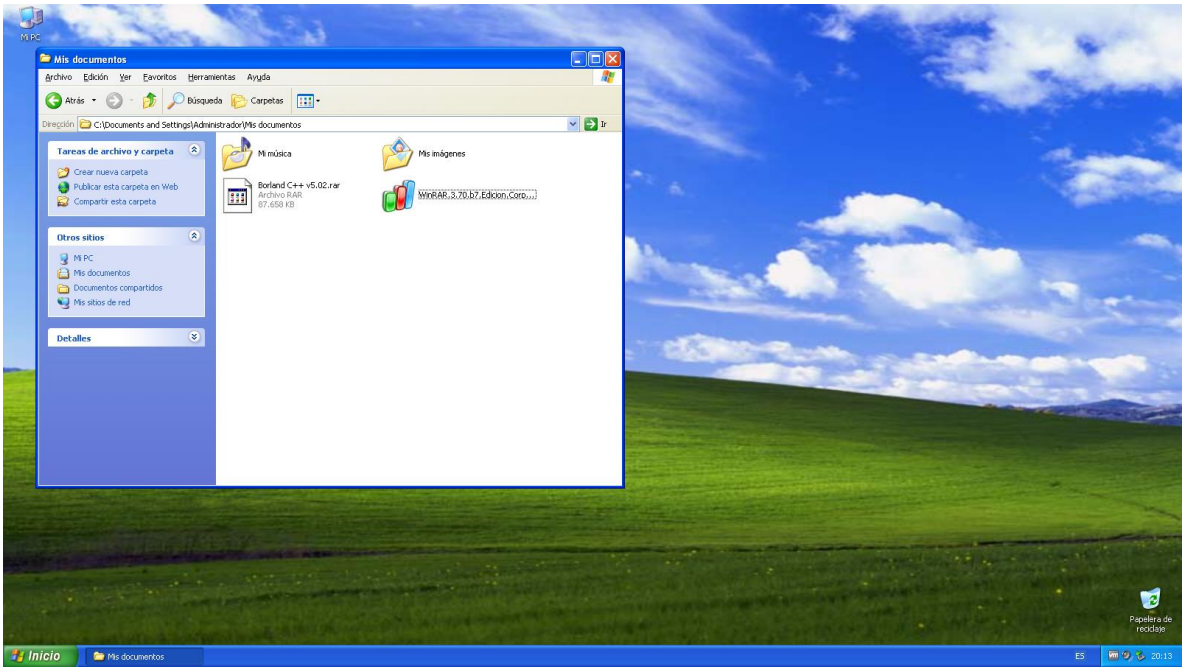
After this we proceed to install the Operating System.

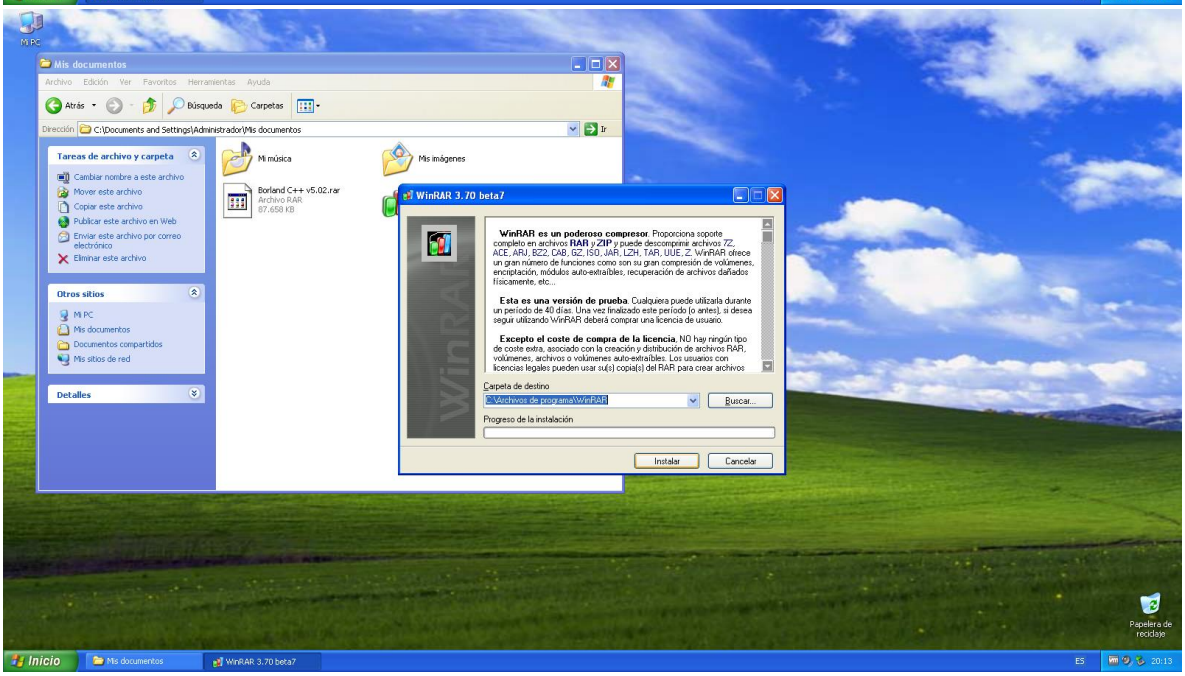


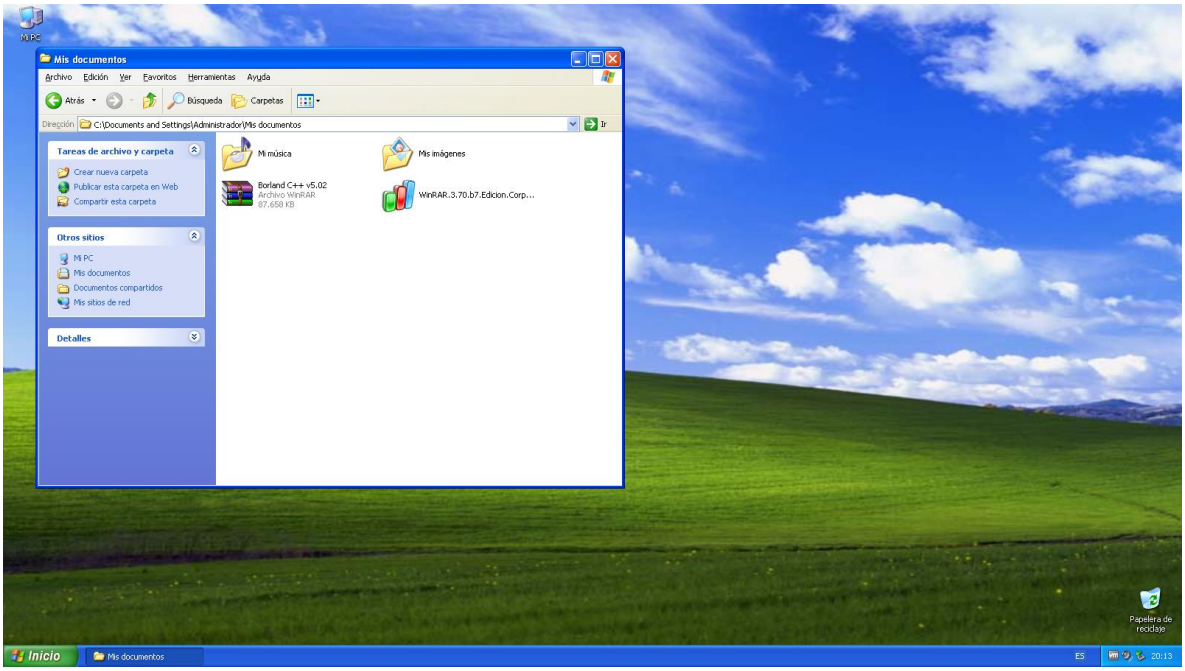


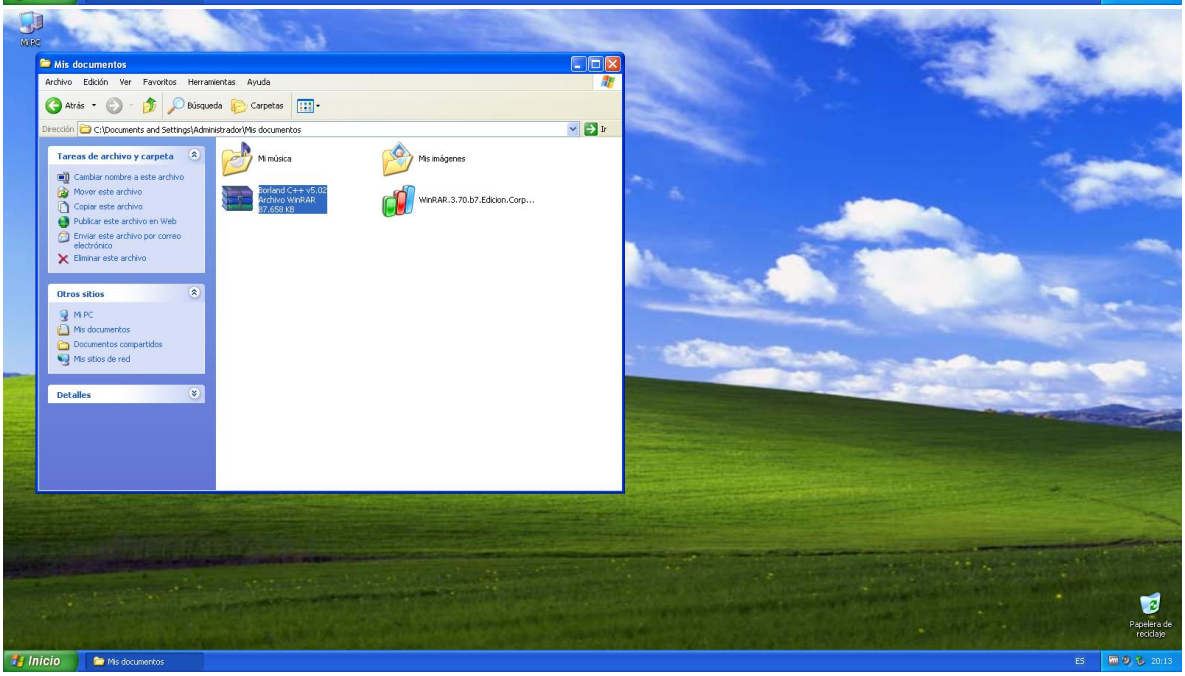


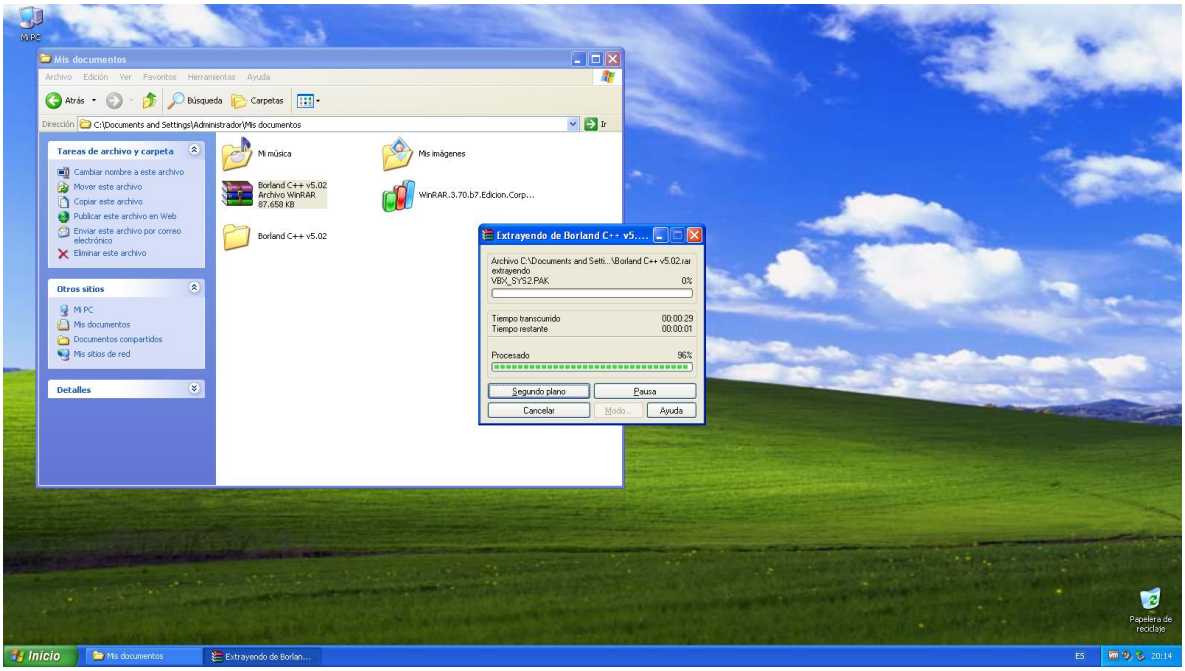
After the OS is ready we proceed to install winrar to unpack the installer of Borland C++ 5.02


Mi PC
Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección C:\Documents and Settings\Administrador\Mis documentos
Ir
Tareas de archivo y carpeta
Crear nueva carpeta
Publicar esta carpeta en Web
Compartir esta carpeta
Otros sitios
Mi PC
Mis documentos
Documentos compartidos
Mis sitios de red
Detalles
Mi música
Mis imágenes
Borland C++ v5.02.rar
Archivo RAR
87.658 KB
WinRAR.3.70.b7.Edicion.Corp...
Papelera de reciclaje
Inicio
Mis documentos
ES
20:13

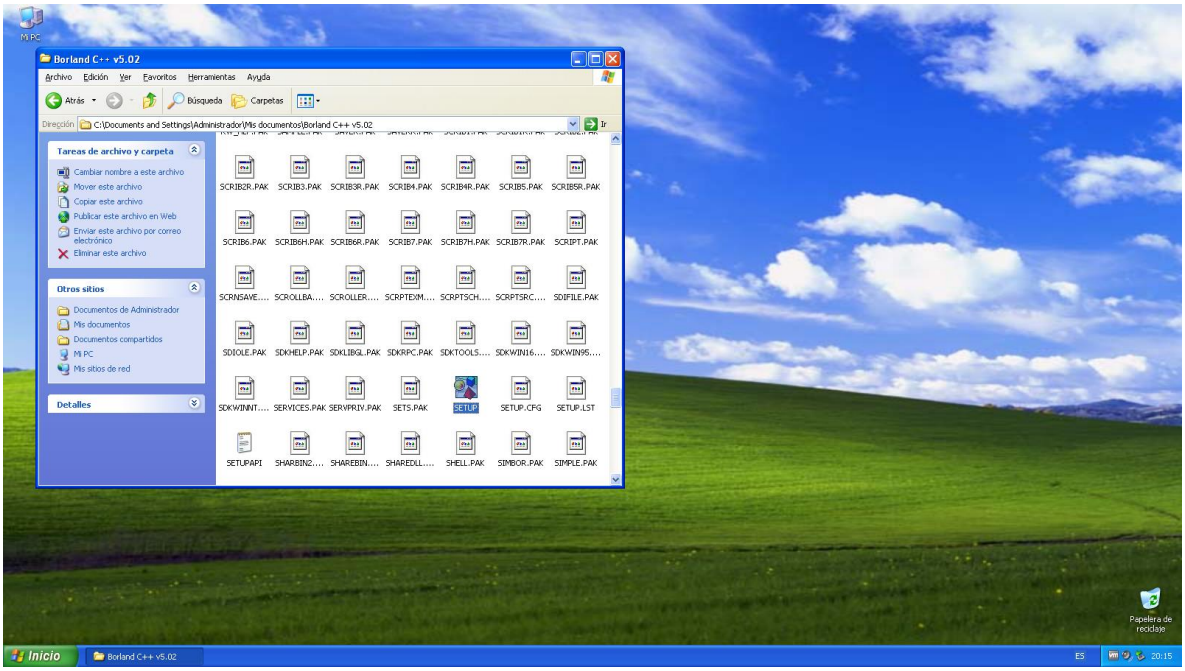

Mi PC
Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección C:\Documents and Settings\Administrador\Mis documentos
Ir
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Mi PC
Mis documentos
Documentos compartidos
Mis sitios de red
Detalles
Mi música
Mis imágenes
Borland C++ v5.02.rar
Archivo RAR
87.658 KB
WinRAR 3.70 beta7
WinRAR es un poderoso compresor. Proporciona soporte completo en archivos RAR y ZIP y puede descomprimir archivos 7Z, ACE, ARJ, BZ2, CAB, GZ, ISO, JAR, LZH, TAR, UUE, Z. WinRAR ofrece un gran número de funciones como son su gran compresión de volúmenes, encriptación, módulos auto-extraíbles, recuperación de archivos dañados físicamente, etc...
Esta es una versión de prueba. Cualquiera puede utilizarla durante un período de 40 días. Una vez finalizado este período (o antes), si desea seguir utilizando WinRAR deberá comprar una licencia de usuario.
Excepto el coste de compra de la licencia, NO hay ningún tipo de coste extra, asociado con la creación y distribución de archivos RAR, volúmenes, archivos o volúmenes auto-extraíbles. Los usuarios con licencias legales pueden usar su(s) copia(s) del RAR para crear archivos
Carpeta de destino
C:\Archivos de programa\WinRAR
Buscar...
Progreso de la instalación
Instalar
Cancelar
Papelera de reciclaje
Inicio
Mis documentos
WinRAR 3.70 beta7
ES
20:13

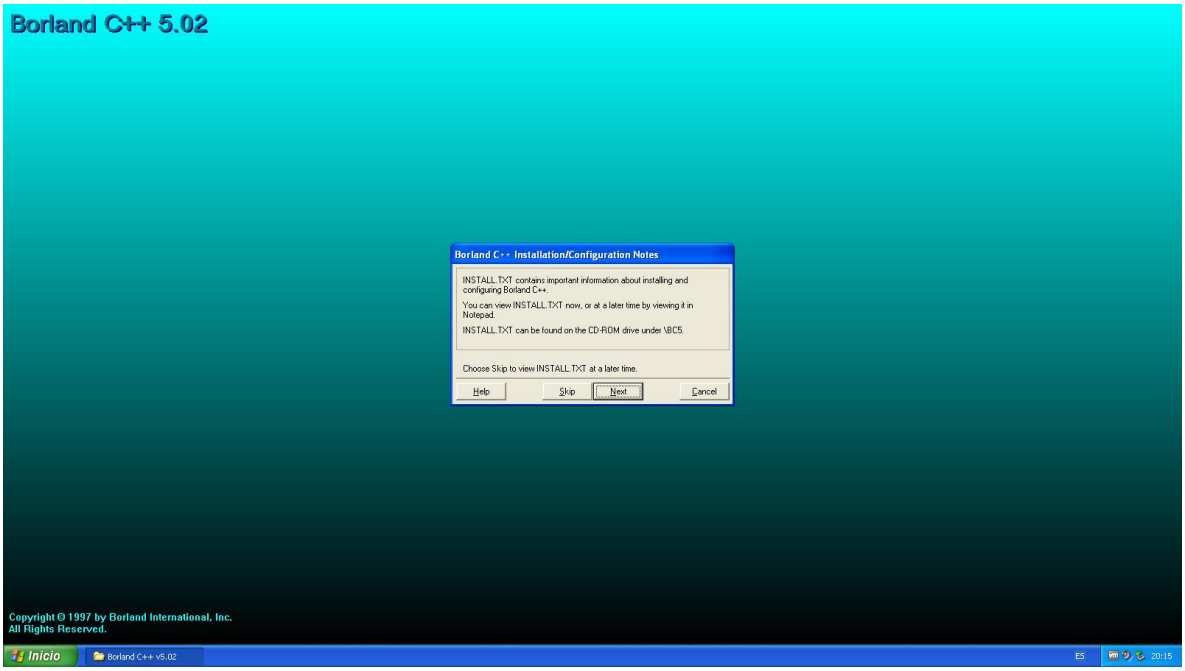

Mi PC
Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección C:\Documents and Settings\Administrador\Mis documentos
Ir
Tareas de archivo y carpeta
Crear nueva carpeta
Publicar esta carpeta en Web
Compartir esta carpeta
Otros sitios
Mi PC
Mis documentos
Documentos compartidos
Mis sitios de red
Detalles
Mi música
Mis imágenes
Borland C++ v5.02
Archivo WinRAR
87.658 KB
WinRAR.3.70.b7.Edicion.Corp...
Papelera de reciclaje
Inicio
Mis documentos
ES
20:13

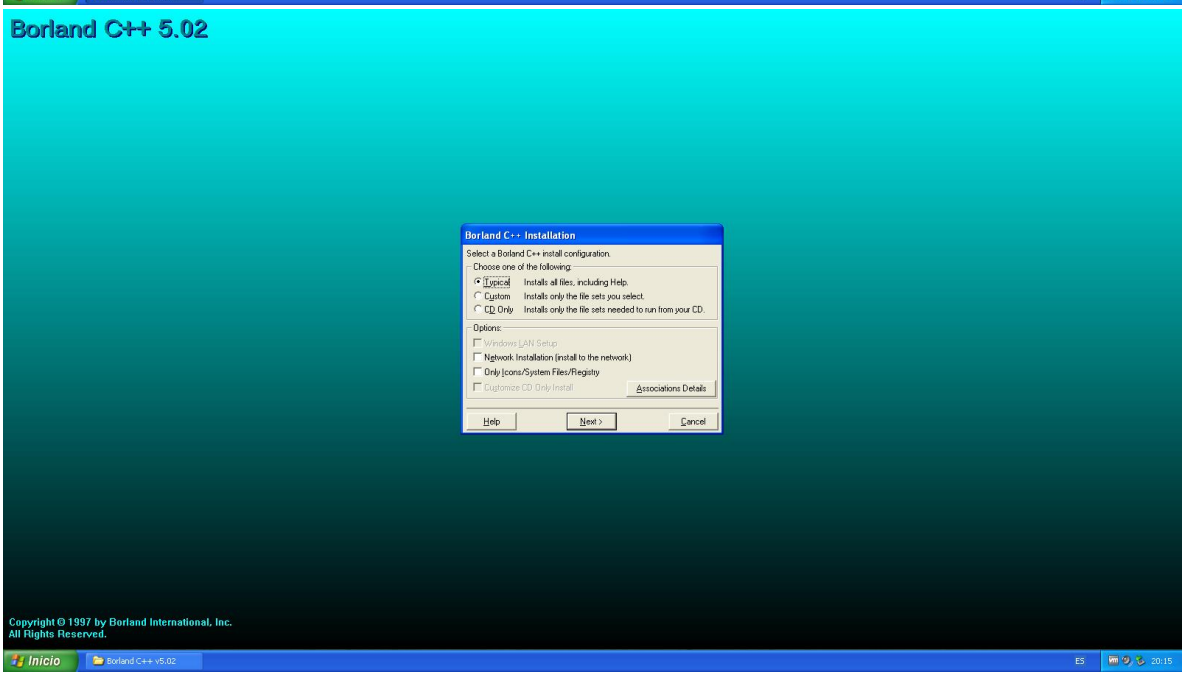

Mi PC
Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección C:\Documents and Settings\Administrador\Mis documentos
Ir
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Mi PC
Mis documentos
Documentos compartidos
Mis sitios de red
Detalles
Mi música
Mis imágenes
Borland C++ v5.02
Archivo WinRAR
87.658 KB
WinRAR.3.70.b7.Edicion.Corp...
Papelera de reciclaje
Inicio
Mis documentos
ES
20:13

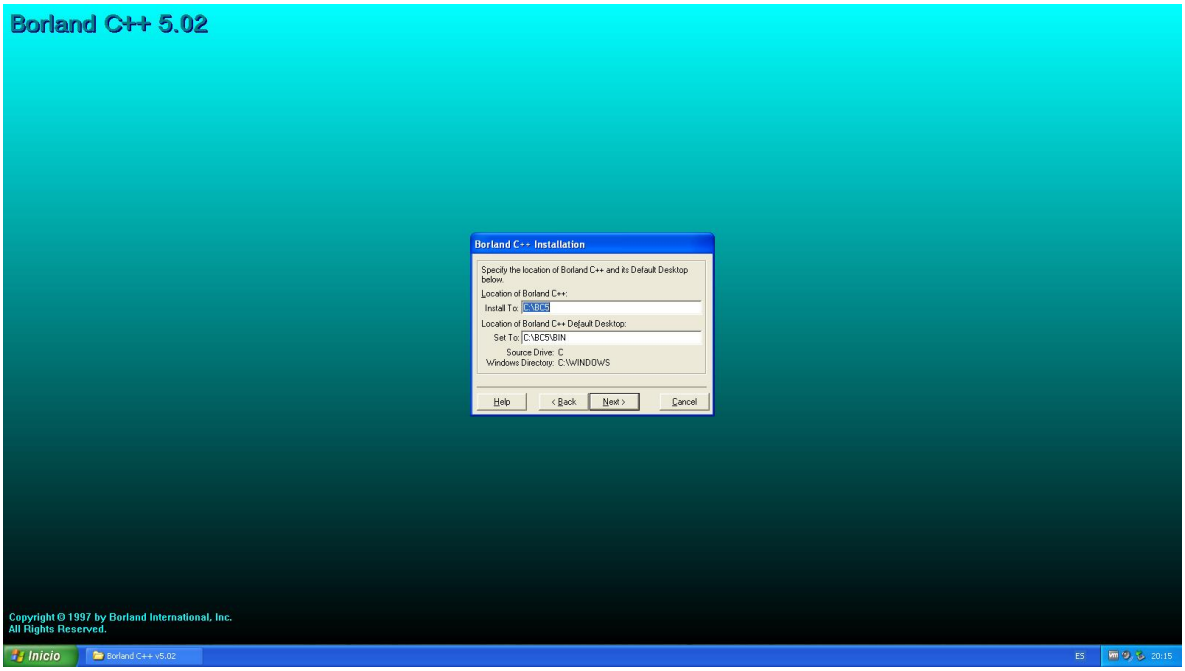


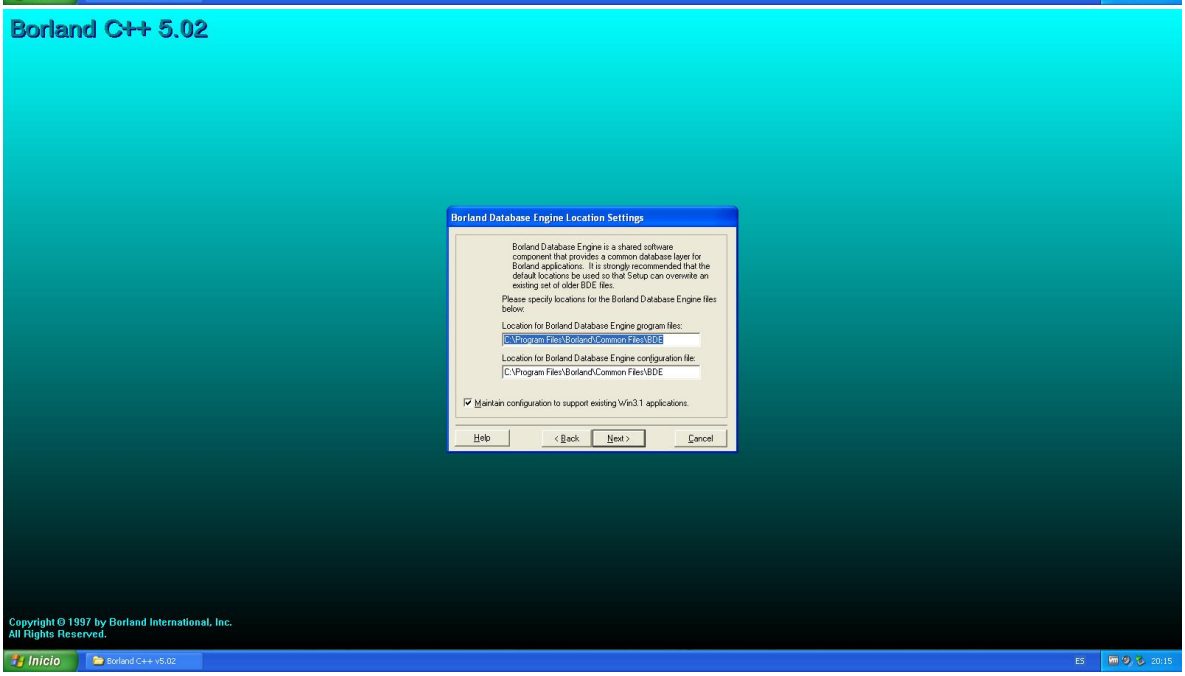
After unpacking it we use the “SETUP.EXE” to install Borland C 5.02

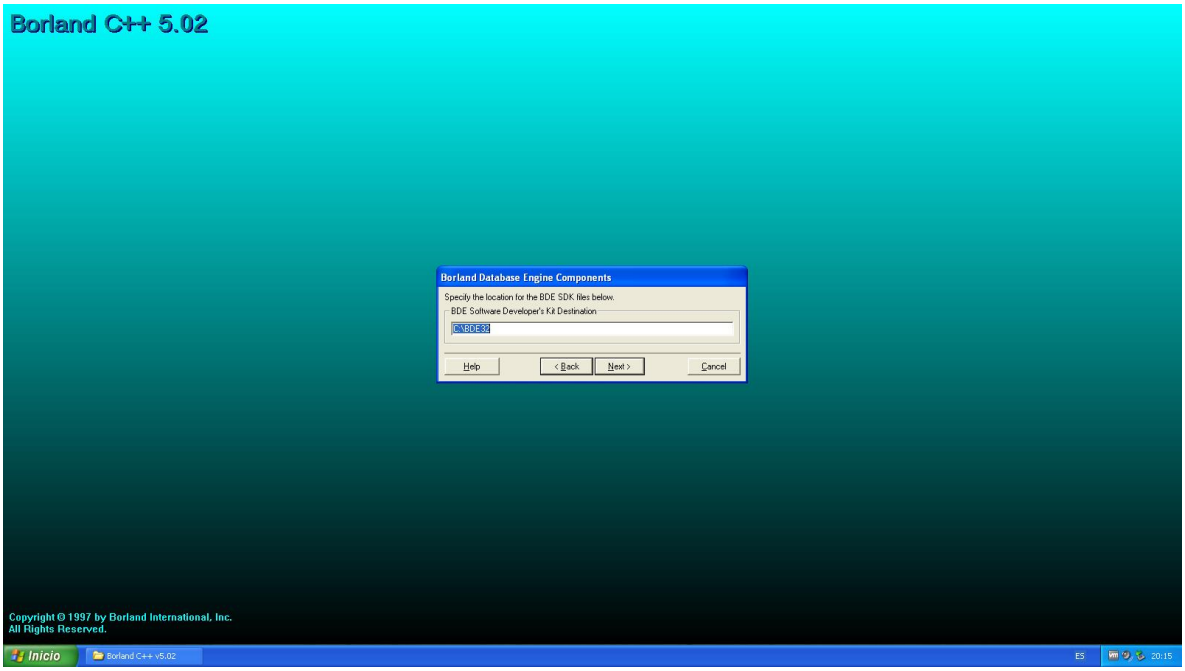


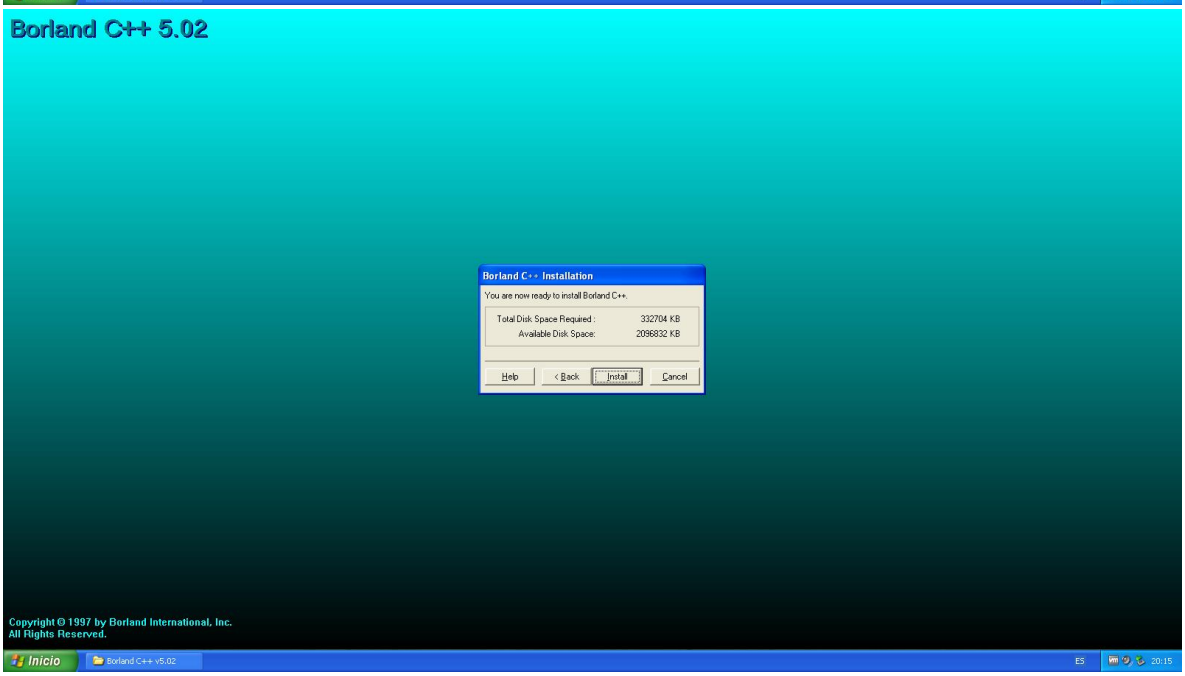

Borland C++ 5.02
Borland C++ Installation/Configuration Notes
INSTALL.TXT contains important information about installing and configuring Borland C++.
You can view INSTALL.TXT now, or at a later time by viewing it in Notepad.
INSTALL.TXT can be found on the CD-ROM drive under \BC5.
Choose Skip to view INSTALL.TXT at a later time.
Help
Skip
Next
Cancel
Copyright © 1997 by Borland International, Inc.
All Rights Reserved.
Inicio
Borland C++ v5.02
ES
20:15


Borland C++ 5.02
Borland C++ Installation
Select a Borland C++ install configuration.
Choose one of the following:
Typical
Installs all files, including Help.
Custom
Installs only the file sets you select.
CD Only
Installs only the file sets needed to run from your CD.
Options:
Windows LAN Setup
Network Installation (install to the network)
Only Icons/System Files/Registry
Customize CD Only Install
Associations Details
Help
Next >
Cancel
Copyright © 1997 by Borland International, Inc.
All Rights Reserved.
Inicio
Borland C++ v5.02
ES
20:15

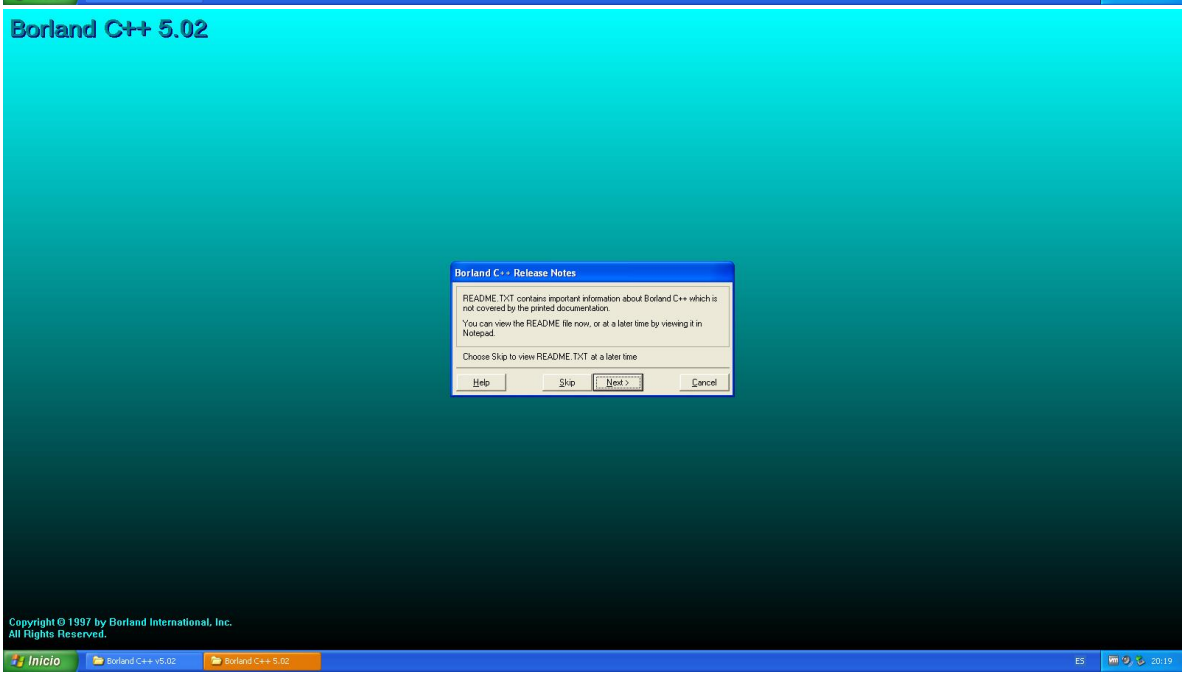

Borland C++ 5.02
Borland C++ Installation
Specify the location of Borland C++ and its Default Desktop below.
Location of Borland C++:
Install To: C:\BC5
Location of Borland C++ Default Desktop:
Set To: C:\BC5\BIN
Source Drive: C
Windows Directory: C:\WINDOWS
Help
< Back
Next >
Cancel
Copyright © 1997 by Borland International, Inc.
All Rights Reserved.
Inicio
Borland C++ v5.02
ES
20:15


Borland C++ 5.02
Borland Database Engine Location Settings
Borland Database Engine is a shared software component that provides a common database layer for Borland applications. It is strongly recommended that the default locations be used so that Setup can overwrite an existing set of older BDE files.
Please specify locations for the Borland Database Engine files below.
Location for Borland Database Engine program files:
C:\Program Files\Borland\Common Files\BDE
Location for Borland Database Engine configuration file:
C:\Program Files\Borland\Common Files\BDE
Maintain configuration to support existing Win3.1 applications.
Help
< Back
Next >
Cancel
Copyright © 1997 by Borland International, Inc.
All Rights Reserved.
Inicio
Borland C++ v5.02
ES
20:15


Borland C++ 5.02
Borland Database Engine Components
Specify the location for the BDE SDK files below.
BDE Software Developer's Kit Destination
C:\BDE32
Help
< Back
Next >
Cancel
Copyright © 1997 by Borland International, Inc.
All Rights Reserved.
Inicio
Borland C++ v5.02
ES
20:15


Borland C++ 5.02
Borland C++ Installation
You are now ready to install Borland C++.
Total Disk Space Required :
332704 KB
Available Disk Space:
2096832 KB
Help
< Back
Install
Cancel
Copyright © 1997 by Borland International, Inc.
All Rights Reserved.
Inicio
Borland C++ v5.02
ES
20:15


Borland C++ 5.02
The most productive C++ for 16- and 32-bit development, with:
> Full support for Windows 95
> Parallel development for Windows 95, NT & 3.1
> NEW! Incremental linker for faster builds
> ObjectScripting fully programmable IDE
> Multi-threaded & multi-process 32-bit debugging
> OWL 5.2 for 16- and 32-bit development
> MFC source code included
> 16- and 32-bit DDX and VBX support
> Latest ANSI/ISO C++, including STL
FROM HARD DISK
READING RTLDLL16.PAK...
CANCEL
Borland
Inicio
Borland C++ v5.02
ES
20:16


Borland C++ 5.02
Borland C++ Release Notes
README.TXT contains important information about Borland C++ which is not covered by the printed documentation.
You can view the README file now, or at a later time by viewing it in Notepad.
Choose Skip to view README.TXT at a later time
Help
Skip
Next >
Cancel
Copyright © 1997 by Borland International, Inc.
All Rights Reserved.
Inicio
Borland C++ v5.02
Borland C++ 5.02
ES
20:19

Borland C++ 5.02

README - Bloc de notas

Archivo Edición Formato Ver Ayuda

```
/*****************************************************************/
                    Welcome to Borland C++ Release 5.02
-----------------------------------------------------------------

This README file contains important information about Borland C++.
For information about OWL updates, see \BC5\DOCS\OWL5.TXT.

--------
CONTENTS
--------
* Contacting Borland
* Online Licenses
* Redistributable Files List
* New IDE Features
* Incremental Linker
* Interoperability with Borland C++Builder
* New Scripting Features
* New Resource Workshop Features
* Issues

------------------
Contacting Borland
------------------

Borland offers a range of services to provide comprehensive
product information, updates, and product services. You can
get more information on Borland C++ by contacting any of
these resources:

World Wide Web:  http://www.borland.com/

Tech Info page:  http://www.borland.com/TechInfo/

FTP:             ftp.borland.com

Up & Running:    (408) 461-9133 (Installation support)

Listserv:        listserv@borland.com
Send an email message containing this text:

  SUBSCRIBE<space>BCPP<space>FIRSTNAME<space>LASTNAME
```


Inicio | Borland C++ v5.02 | Borland C++ 5.02 | README - Bloc de notas | ES | 20:19

Borland C++ 5.02

Borland C++ Installation

Borland C++ is now installed.
Setup has updated the PATH statement in the Registry for you.

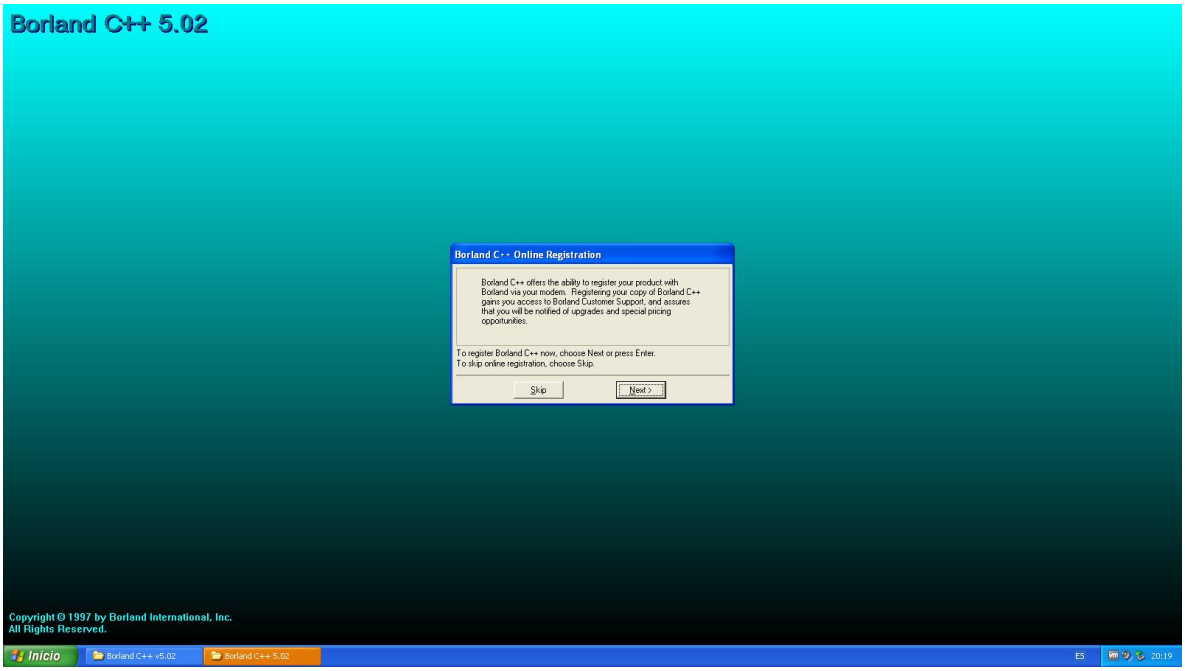
Make sure the line: FILES=40 is in your CONFIG.SYS file.

Remember that you must reboot your machine in order for the installed options to take effect.

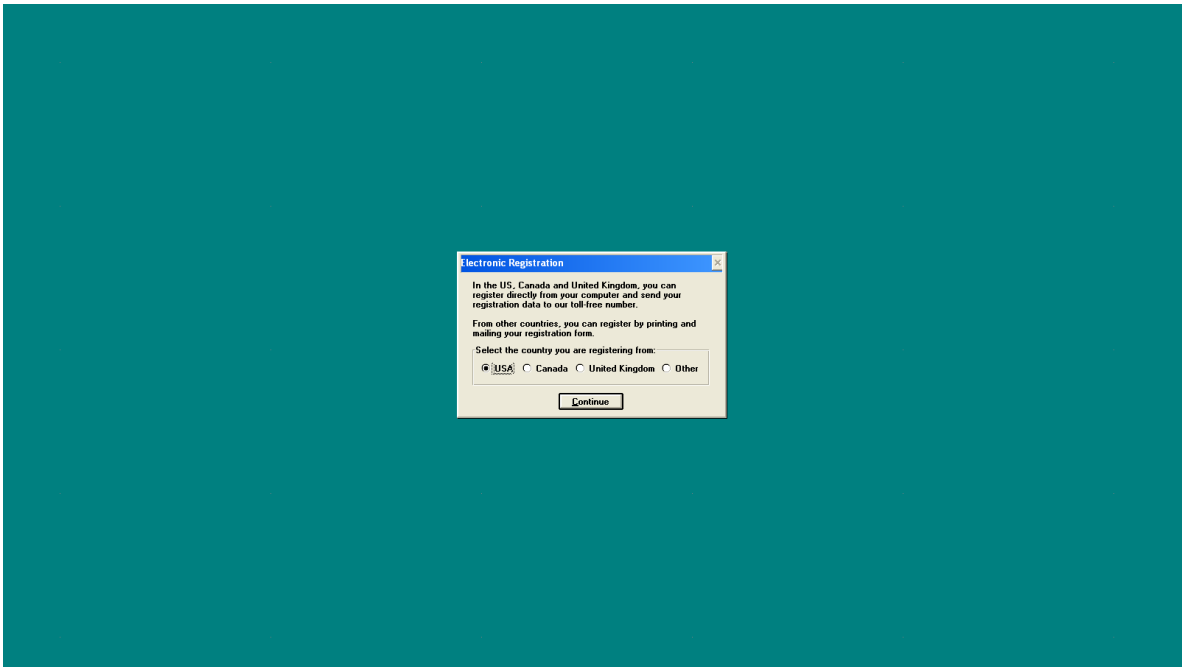
OK

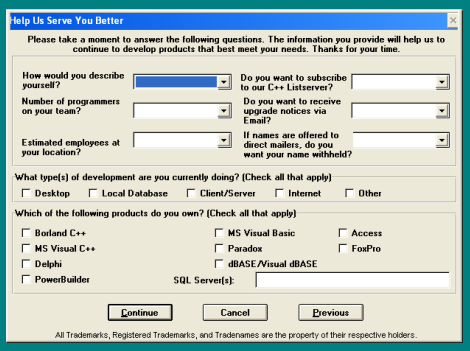
Copyright © 1997 by Borland International, Inc.
All Rights Reserved.

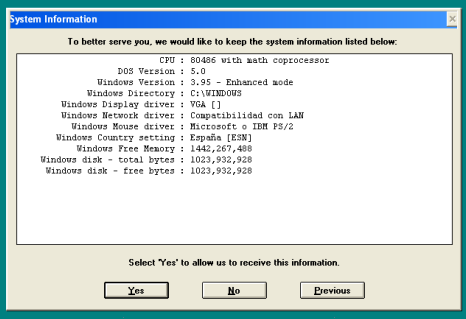
Inicio | Borland C++ v5.02 | Borland C++ 5.02 | ES | 20:19

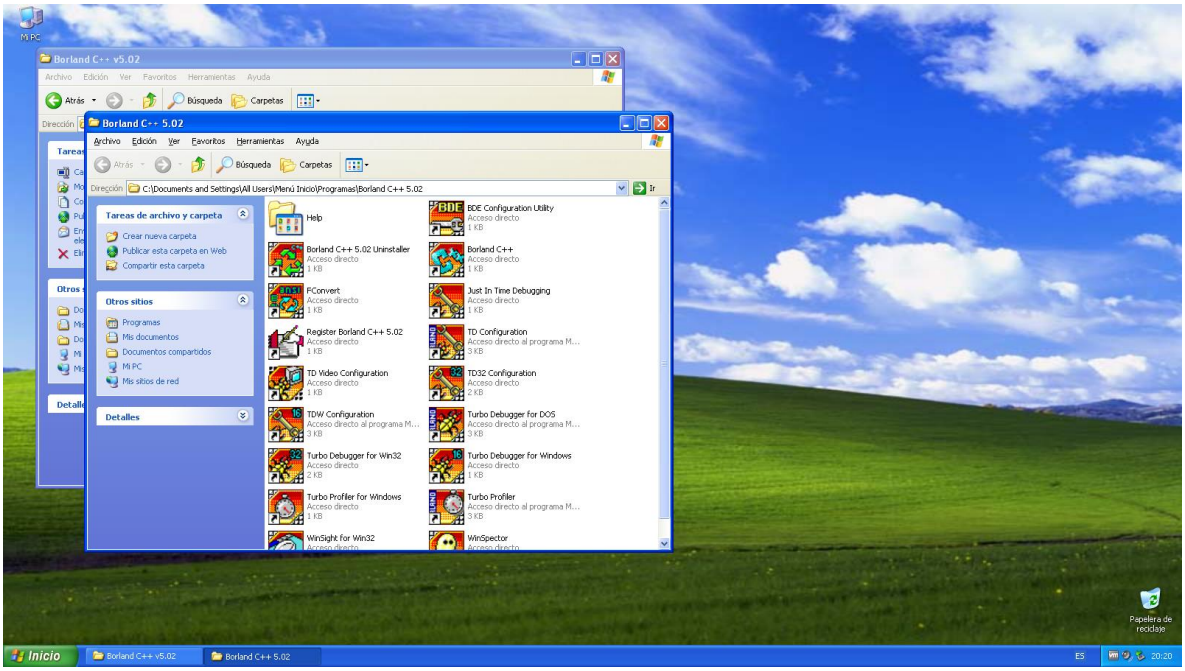


In the registration process random data can be used.

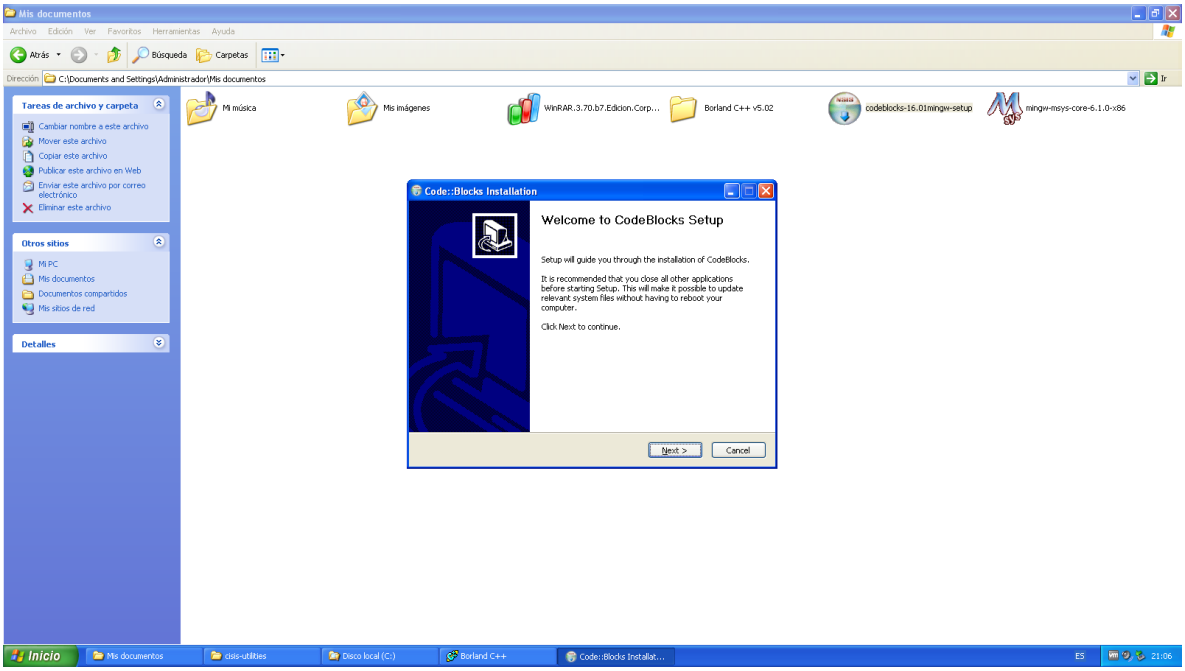


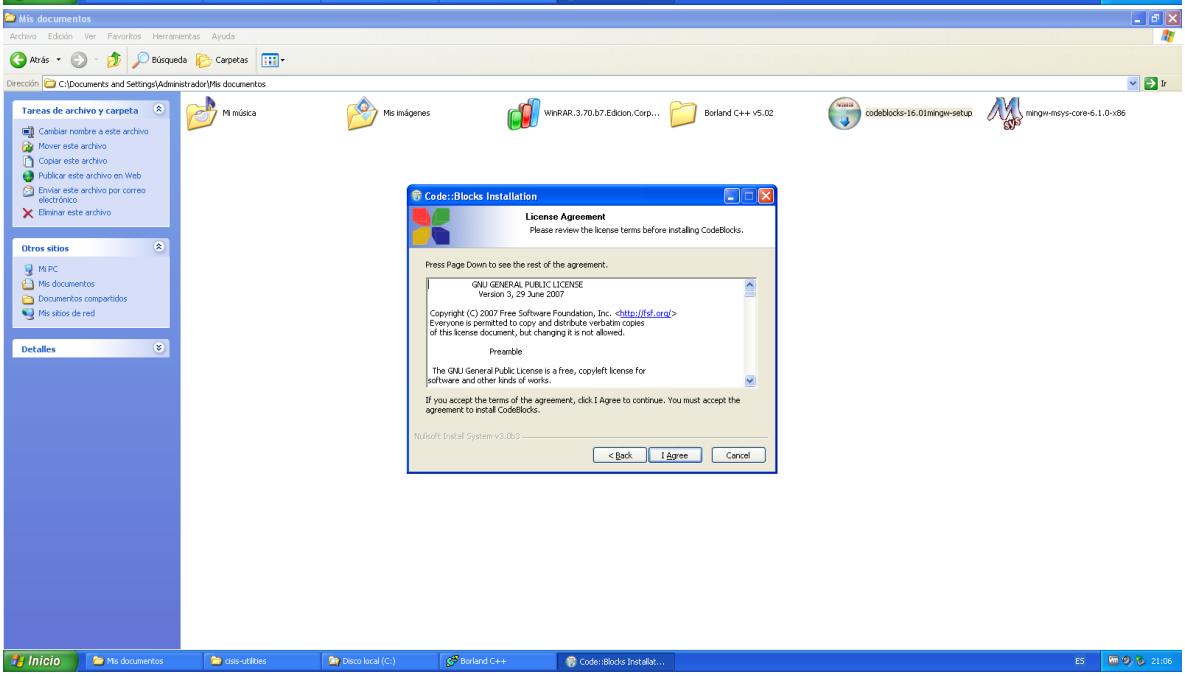

Help Us Serve You Better
Please take a moment to answer the following questions. The information you provide will help us to continue to develop products that best meet your needs. Thanks for your time.
How would you describe yourself?
Do you want to subscribe to our C++ Listserver?
Number of programmers on your team?
Do you want to receive upgrade notices via Email?
Estimated employees at your location?
If names are offered to direct mailers, do you want your name withheld?
What type(s) of development are you currently doing? (Check all that apply)
Desktop
Local Database
Client/Server
Internet
Other
Which of the following products do you own? (Check all that apply)
Borland C++
MS Visual Basic
Access
MS Visual C++
Paradox
FoxPro
Delphi
dBASE/Visual dBASE
PowerBuilder
SQL Server(s):
Continue
Cancel
Previous
All Trademarks, Registered Trademarks, and Tradenames are the property of their respective holders.

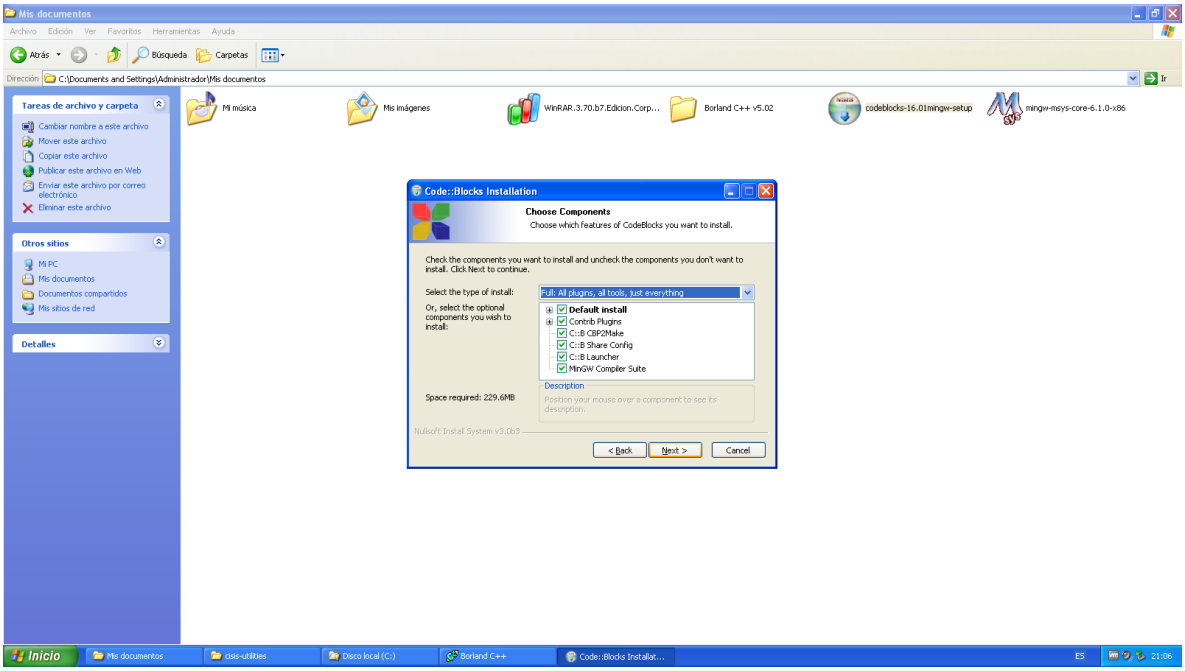

System Information
To better serve you, we would like to keep the system information listed below:
CPU : 80486 with math coprocessor
DOS Version : 5.0
Windows Version : 3.95 - Enhanced mode
Windows Directory : C:\WINDOWS
Windows Display driver : VGA []
Windows Network driver : Compatibilidad con LAN
Windows Mouse driver : Microsoft o IBM PS/2
Windows Country setting : España [ESM]
Windows Free Memory : 1442,267,488
Windows disk - total bytes : 1023,932,928
Windows disk - free bytes : 1023,932,928
Select 'Yes' to allow us to receive this information.
Yes
No
Previous

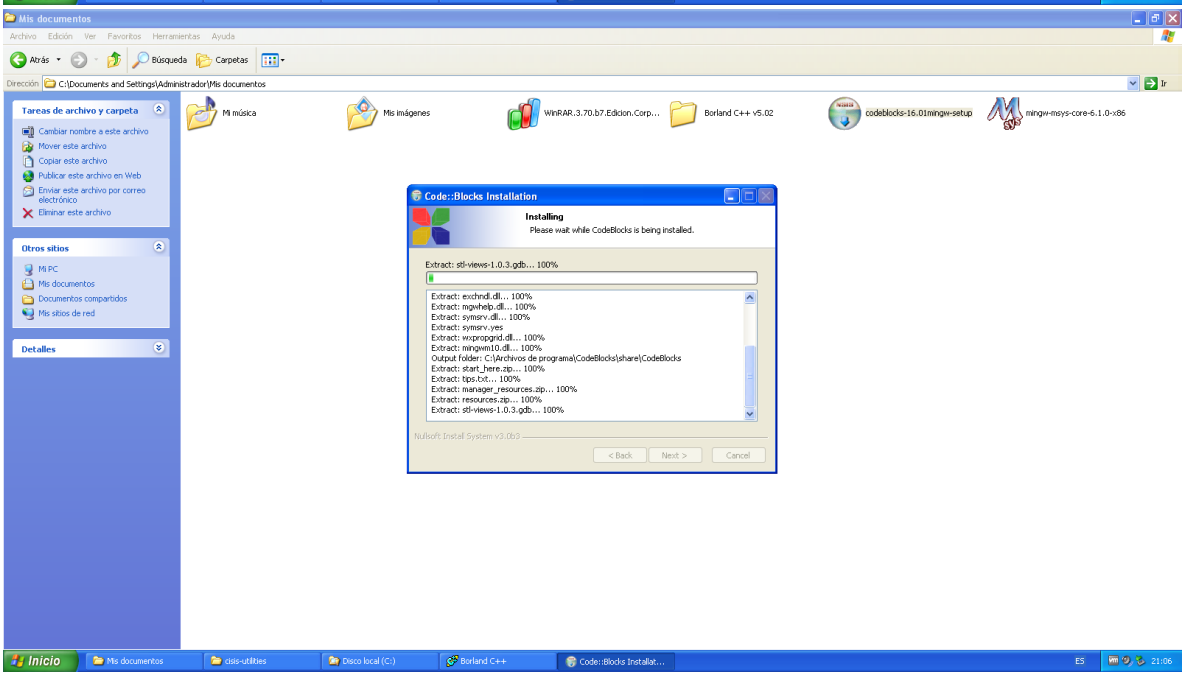


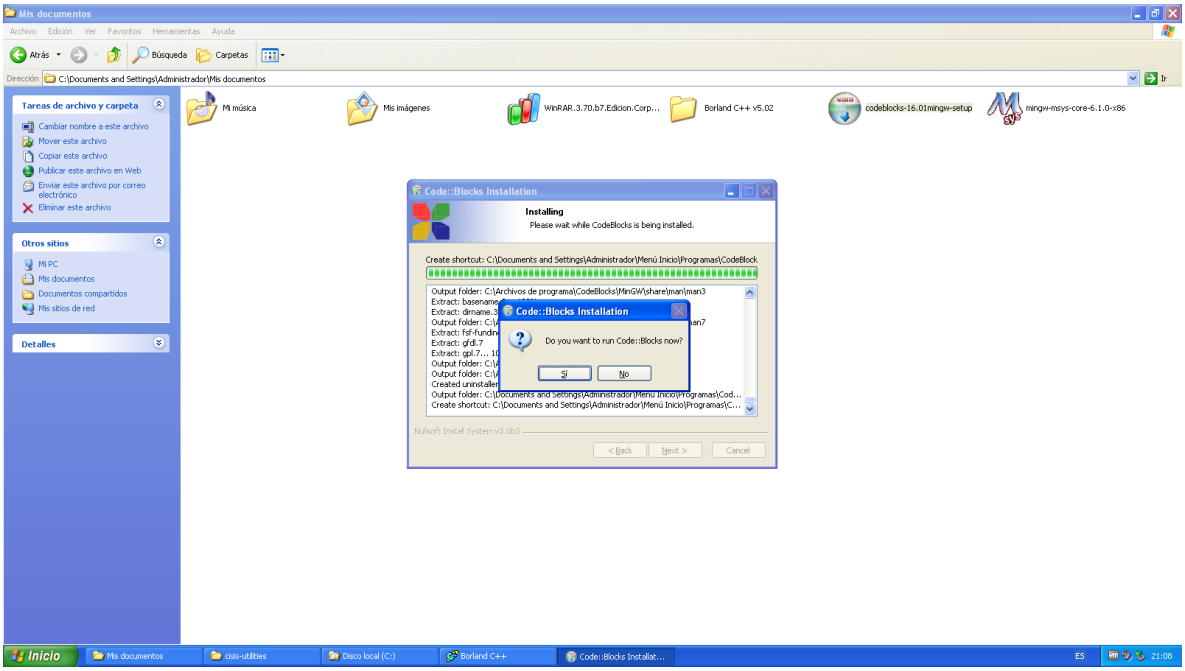
After this we install CodeBlocks IDE

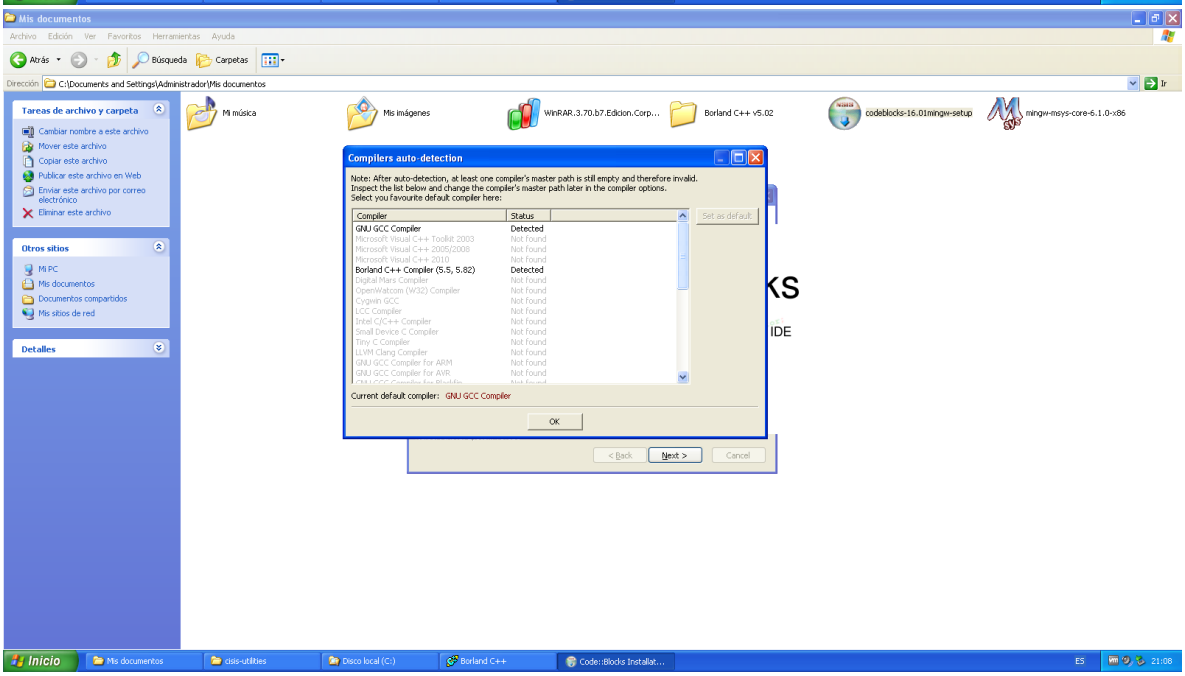

Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección C:\Documents and Settings\Administrador\Mis documentos
Ir
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Mi PC
Mis documentos
Documentos compartidos
Mis sitios de red
Detalles
Mi música
Mis imágenes
WinRAR.3.70.b7.Edicion.Corp...
Borland C++ v5.02
codeblocks-16.01mingw-setup
mingw-msys-core-6.1.0-x86
Code::Blocks Installation
Welcome to CodeBlocks Setup
Setup will guide you through the installation of CodeBlocks.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel
Inicio
Mis documentos
cisis-utilities
Disco local (C:)
Borland C++
Code::Blocks Installat...
ES
21:06


Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección C:\Documents and Settings\Administrador\Mis documentos
Ir
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Mi PC
Mis documentos
Documentos compartidos
Mis sitios de red
Detalles
Mi música
Mis imágenes
WinRAR.3.70.b7.Edicion.Corp...
Borland C++ v5.02
codeblocks-16.01mingw-setup
mingw-msys-core-6.1.0-x86
Code::Blocks Installation
License Agreement
Please review the license terms before installing CodeBlocks.
Press Page Down to see the rest of the agreement.
GNU GENERAL PUBLIC LICENSE
Version 3, 29 June 2007
Copyright (C) 2007 Free Software Foundation, Inc. <http://fsf.org/>
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble
The GNU General Public License is a free, copyleft license for
software and other kinds of works.
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install CodeBlocks.
Nullsoft Install System v3.0b3
< Back
I Agree
Cancel
Inicio
Mis documentos
cisis-utilities
Disco local (C:)
Borland C++
Code::Blocks Installat...
ES
21:06

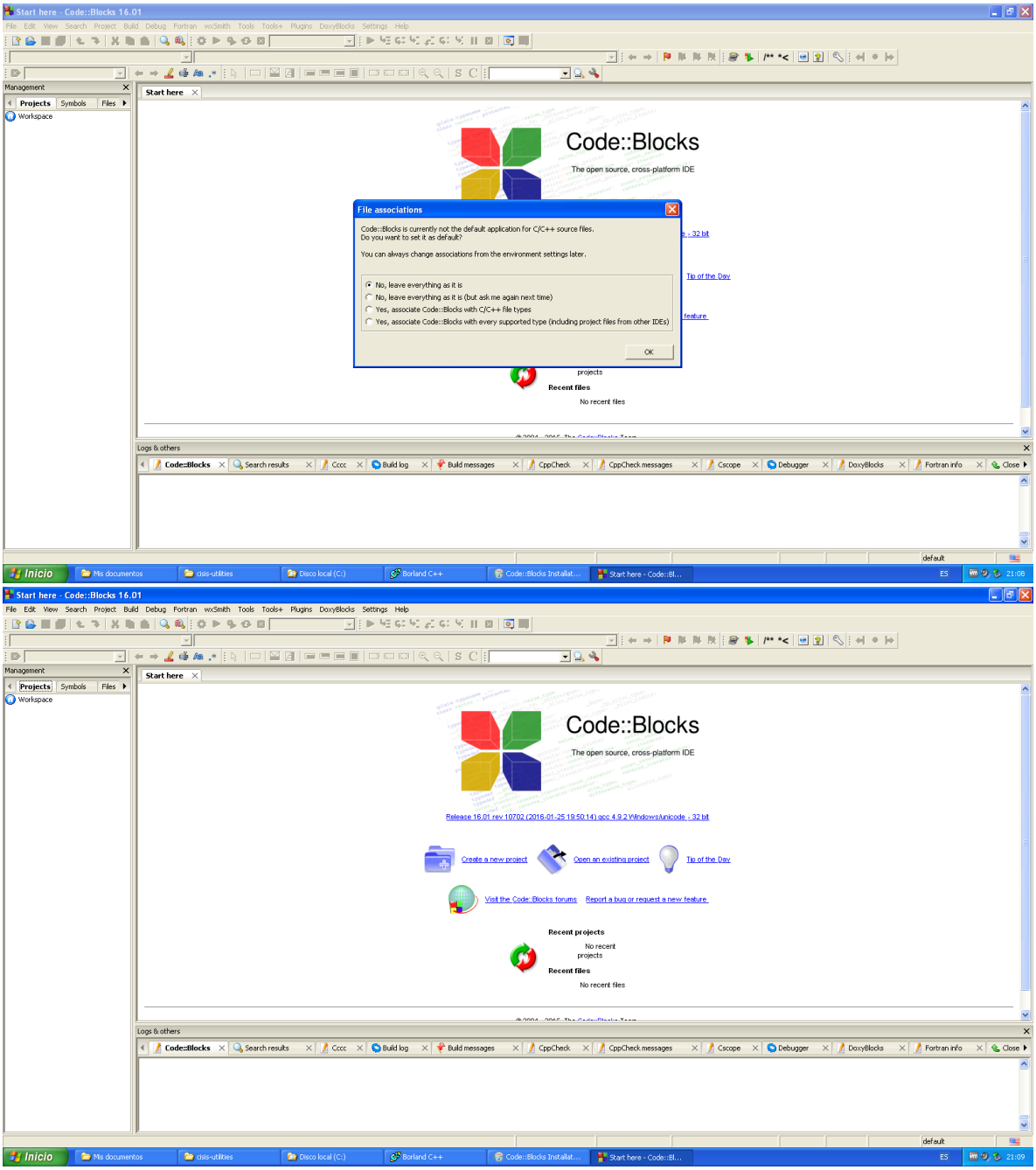

Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección C:\Documents and Settings\Administrador\Mis documentos
Ir
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Mi PC
Mis documentos
Documentos compartidos
Mis sitios de red
Detalles
Mi música
Mis imágenes
WinRAR.3.70.b7.Edicion.Corp...
Borland C++ v5.02
codeblocks-16.01mingw-setup
mingw-msys-core-6.1.0-x86
Code::Blocks Installation
Choose Components
Choose which features of CodeBlocks you want to install.
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.
Select the type of install:
Full: All plugins, all tools, just everything
Or, select the optional components you wish to install:
Default install
Contrib Plugins
C::B CBP2Make
C::B Share Config
C::B Launcher
MinGW Compiler Suite
Description
Position your mouse over a component to see its description.
Space required: 229.6MB
Nullsoft Install System v3.0b3
< Back
Next >
Cancel
Inicio
Mis documentos
cisis-utilities
Disco local (C:)
Borland C++
Code::Blocks Installat...
ES
21:06


Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección C:\Documents and Settings\Administrador\Mis documentos
Ir
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Mi PC
Mis documentos
Documentos compartidos
Mis sitios de red
Detalles
Mi música
Mis imágenes
WinRAR.3.70.b7.Edicion.Corp...
Borland C++ v5.02
codeblocks-16.01mingw-setup
mingw-msys-core-6.1.0-x86
Code::Blocks Installation
Installing
Please wait while CodeBlocks is being installed.
Extract: stl-views-1.0.3.gdb... 100%
Extract: exchndl.dll... 100%
Extract: mgwhelp.dll... 100%
Extract: symsrv.dll... 100%
Extract: symsrv.yes
Extract: wxpropgrid.dll... 100%
Extract: mingwm10.dll... 100%
Output folder: C:\Archivos de programa\CodeBlocks\share\CodeBlocks
Extract: start_here.zip... 100%
Extract: tips.txt... 100%
Extract: manager_resources.zip... 100%
Extract: resources.zip... 100%
Extract: stl-views-1.0.3.gdb... 100%
Nullsoft Install System v3.0b3
< Back
Next >
Cancel
Inicio
Mis documentos
cisis-utilities
Disco local (C:)
Borland C++
Code::Blocks Installat...
ES
21:06

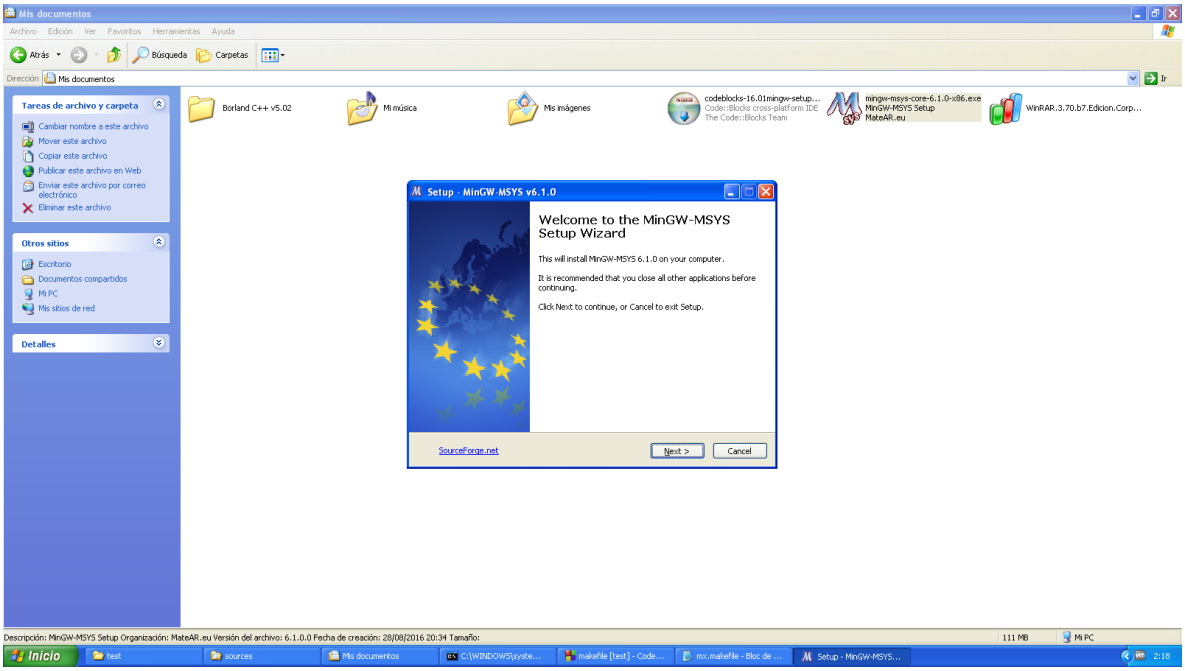


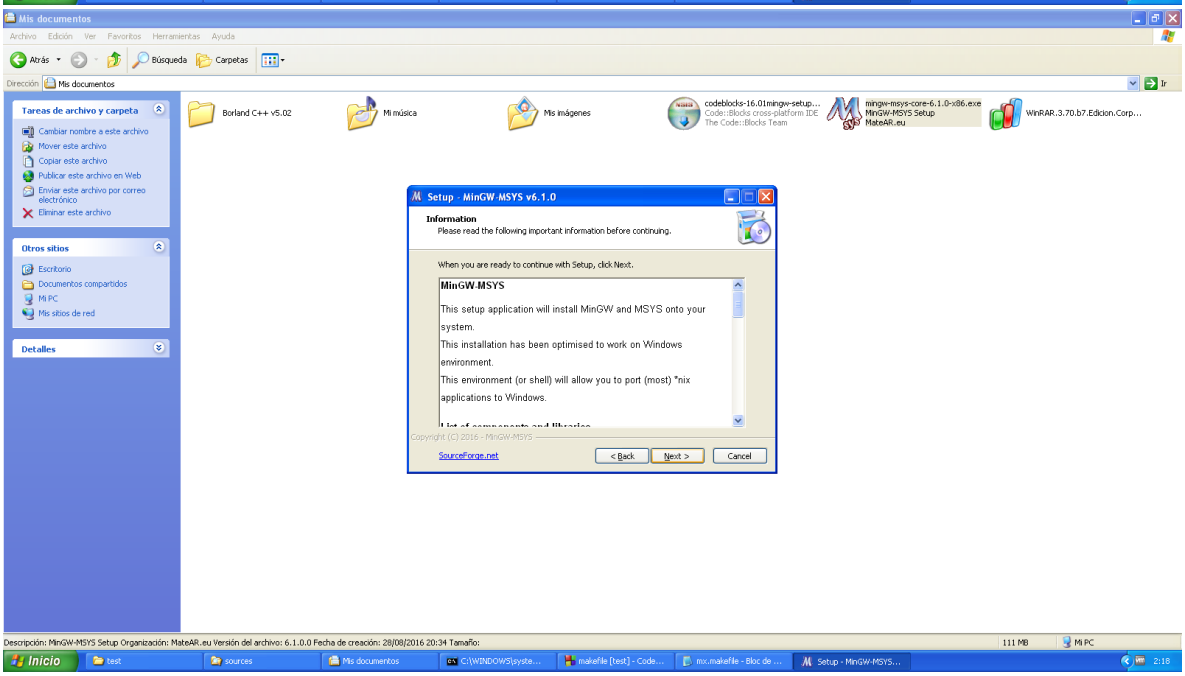


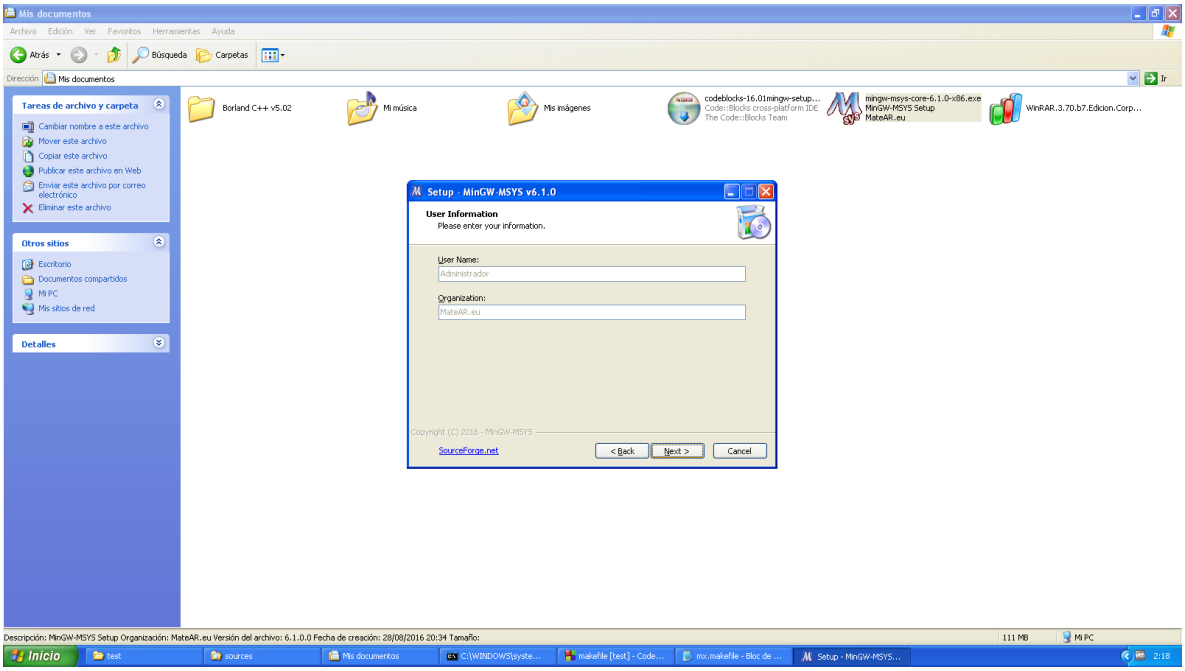
When Codeblock runs for the first time it detects that the Borland C compiler is installed and made it available to use it.

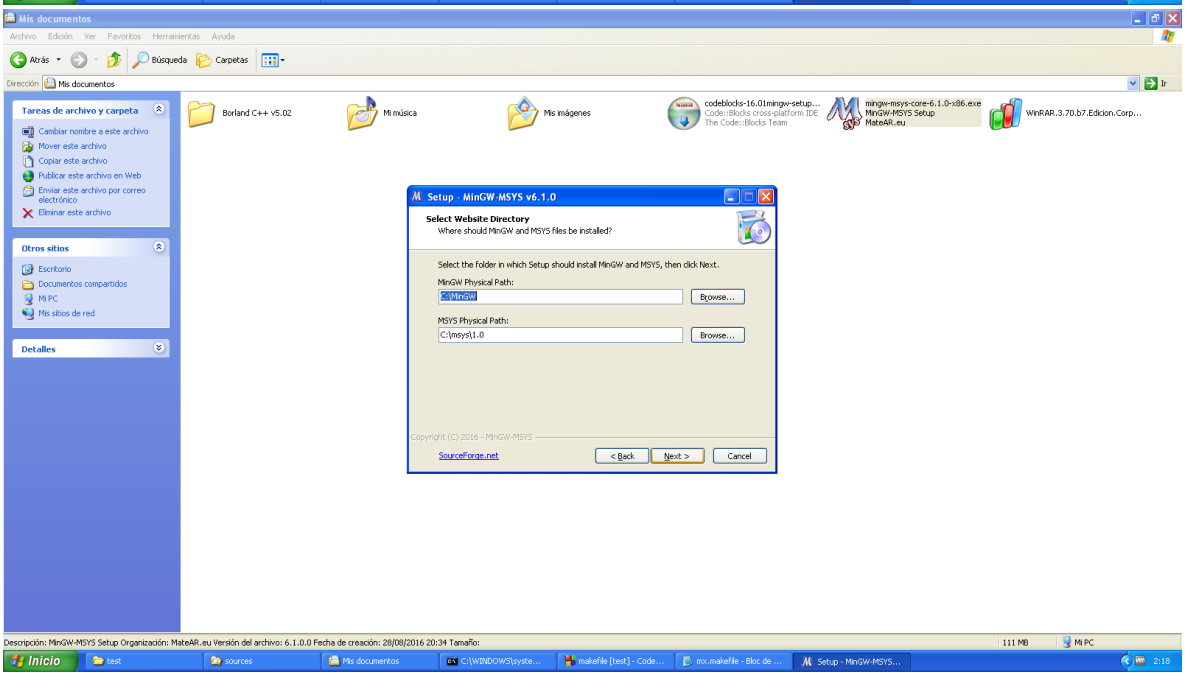


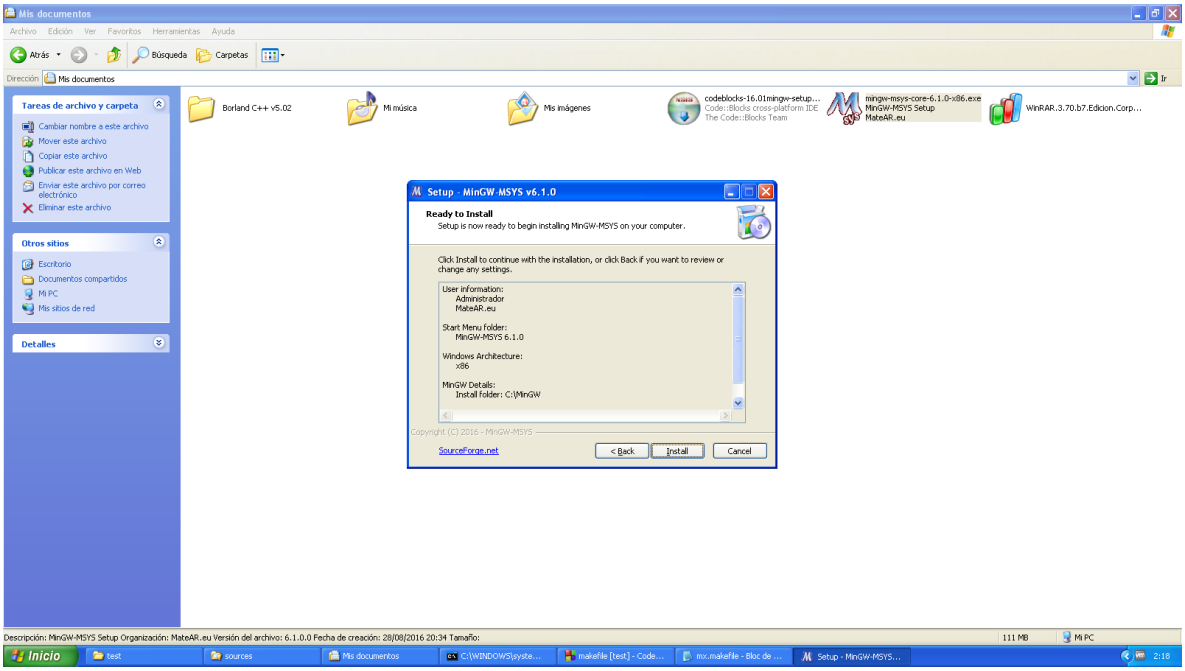
Now we install Mingw

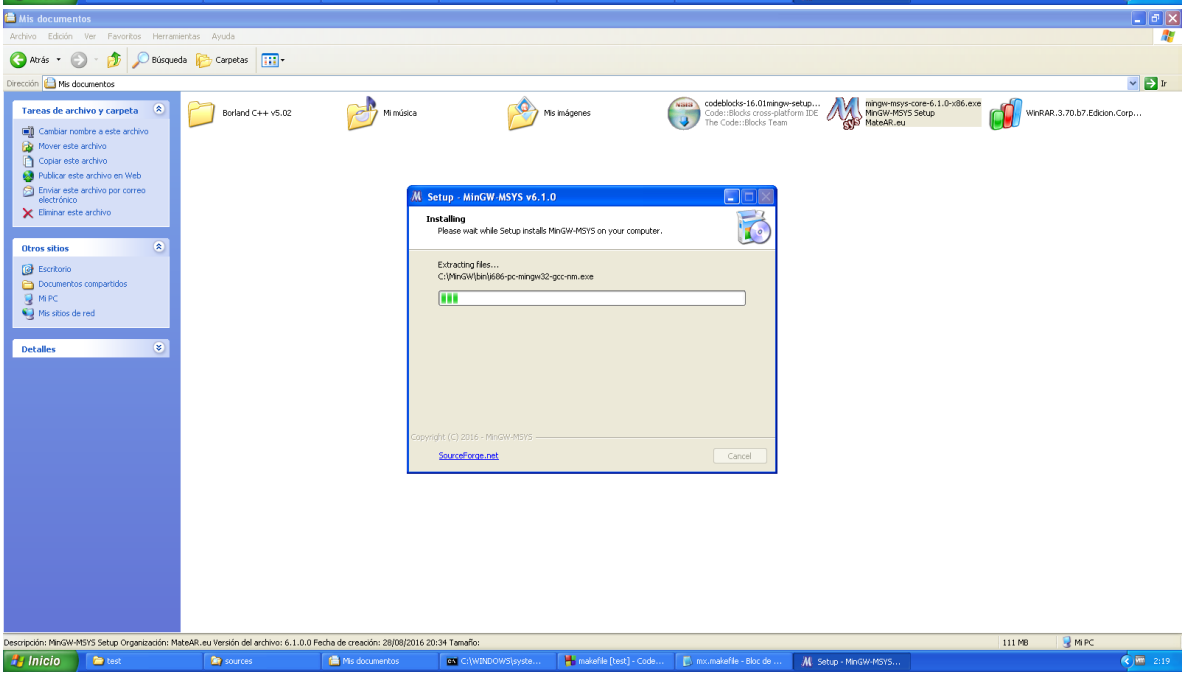

Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección Mis documentos
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Escritorio
Documentos compartidos
Mi PC
Mis sitios de red
Detalles
Borland C++ v5.02
Mi música
Mis imágenes
codeblocks-16.01mingw-setup...
Code::Blocks cross-platform IDE
The Code::Blocks Team
mingw-msys-core-6.1.0-x86.exe
MinGW-MSYS Setup
MateAR.eu
WinRAR.3.70.b7.Edicion.Corp...
Setup - MinGW-MSYS v6.1.0
Welcome to the MinGW-MSYS Setup Wizard
This will install MinGW-MSYS 6.1.0 on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
SourceForge.net
Next >
Cancel
Descripción: MinGW-MSYS Setup Organización: MateAR.eu Versión del archivo: 6.1.0.0 Fecha de creación: 28/08/2016 20:34 Tamaño:
111 MB
Mi PC
Inicio
test
sources
Mis documentos
C:\WINDOWS\syste...
makefile [test] - Code...
mx.makefile - Bloc de ...
Setup - MinGW-MSYS...
2:18

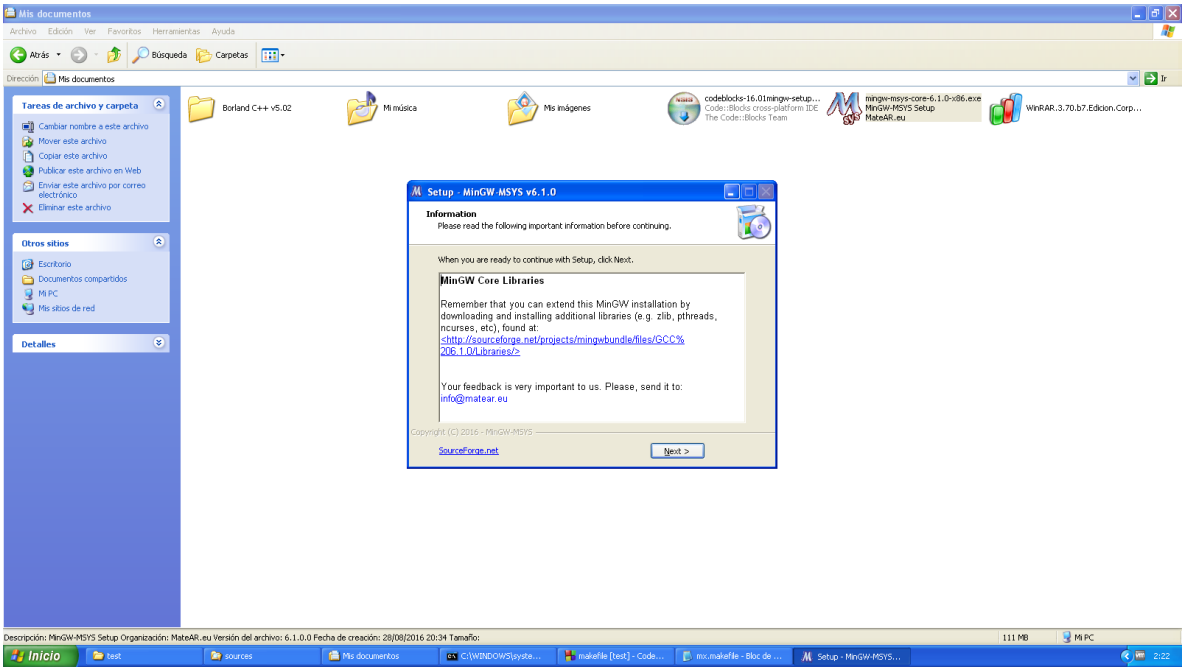

Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección Mis documentos
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Escritorio
Documentos compartidos
Mi PC
Mis sitios de red
Detalles
Borland C++ v5.02
Mi música
Mis imágenes
codeblocks-16.01mingw-setup...
Code::Blocks cross-platform IDE
The Code::Blocks Team
mingw-msys-core-6.1.0-x86.exe
MinGW-MSYS Setup
MateAR.eu
WinRAR.3.70.b7.Edicion.Corp...
Setup - MinGW-MSYS v6.1.0
Information
Please read the following important information before continuing.
When you are ready to continue with Setup, click Next.
MinGW-MSYS
This setup application will install MinGW and MSYS onto your system.
This installation has been optimised to work on Windows environment.
This environment (or shell) will allow you to port (most) *nix applications to Windows.
Copyright (C) 2016 - MinGW-MSYS
SourceForge.net
< Back
Next >
Cancel
Descripción: MinGW-MSYS Setup Organización: MateAR.eu Versión del archivo: 6.1.0.0 Fecha de creación: 28/08/2016 20:34 Tamaño:
111 MB
Mi PC
Inicio
test
sources
Mis documentos
C:\WINDOWS\syste...
makefile [test] - Code...
mx.makefile - Bloc de ...
Setup - MinGW-MSYS...
2:18

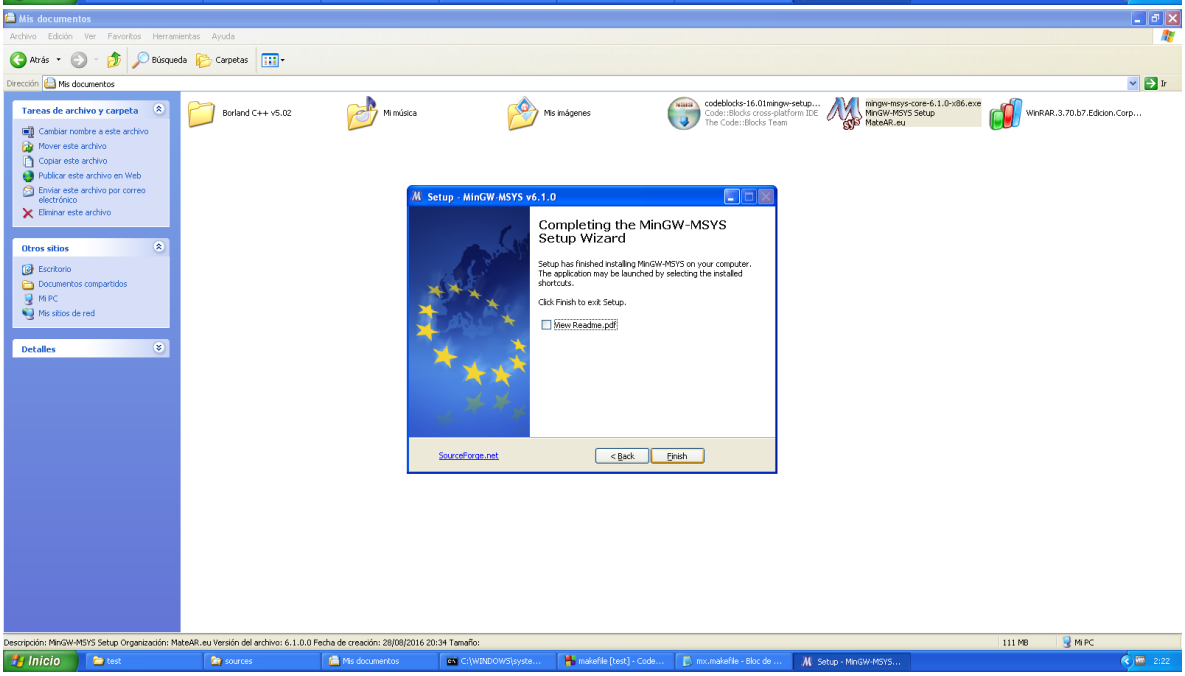

Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección Mis documentos
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Escritorio
Documentos compartidos
Mi PC
Mis sitios de red
Detalles
Borland C++ v5.02
Mi música
Mis imágenes
codeblocks-16.01mingw-setup...
Code::Blocks cross-platform IDE
The Code::Blocks Team
mingw-msys-core-6.1.0-x86.exe
MinGW-MSYS Setup
MateAR.eu
WinRAR.3.70.b7.Edicion.Corp...
Setup - MinGW-MSYS v6.1.0
User Information
Please enter your information.
User Name:
Administrador
Organization:
MateAR.eu
Copyright (C) 2016 - MinGW-MSYS
SourceForge.net
< Back
Next >
Cancel
Descripción: MinGW-MSYS Setup Organización: MateAR.eu Versión del archivo: 6.1.0.0 Fecha de creación: 28/08/2016 20:34 Tamaño:
111 MB
Mi PC
Inicio
test
sources
Mis documentos
C:\WINDOWS\syste...
makefile [test] - Code...
mx.makefile - Bloc de ...
Setup - MinGW-MSYS...
2:18


Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección Mis documentos
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Escritorio
Documentos compartidos
Mi PC
Mis sitios de red
Detalles
Borland C++ v5.02
Mi música
Mis imágenes
codeblocks-16.01mingw-setup...
Code::Blocks cross-platform IDE
The Code::Blocks Team
mingw-msys-core-6.1.0-x86.exe
MinGW-MSYS Setup
MateAR.eu
WinRAR.3.70.b7.Edicion.Corp...
Setup - MinGW-MSYS v6.1.0
Select Website Directory
Where should MinGW and MSYS files be installed?
Select the folder in which Setup should install MinGW and MSYS, then click Next.
MinGW Physical Path:
C:\MinGW
Browse...
MSYS Physical Path:
C:\msys\1.0
Browse...
Copyright (C) 2016 - MinGW-MSYS
SourceForge.net
< Back
Next >
Cancel
Descripción: MinGW-MSYS Setup Organización: MateAR.eu Versión del archivo: 6.1.0.0 Fecha de creación: 28/08/2016 20:34 Tamaño:
111 MB
Mi PC
Inicio
test
sources
Mis documentos
C:\WINDOWS\syste...
makefile [test] - Code...
mx.makefile - Bloc de ...
Setup - MinGW-MSYS...
2:18

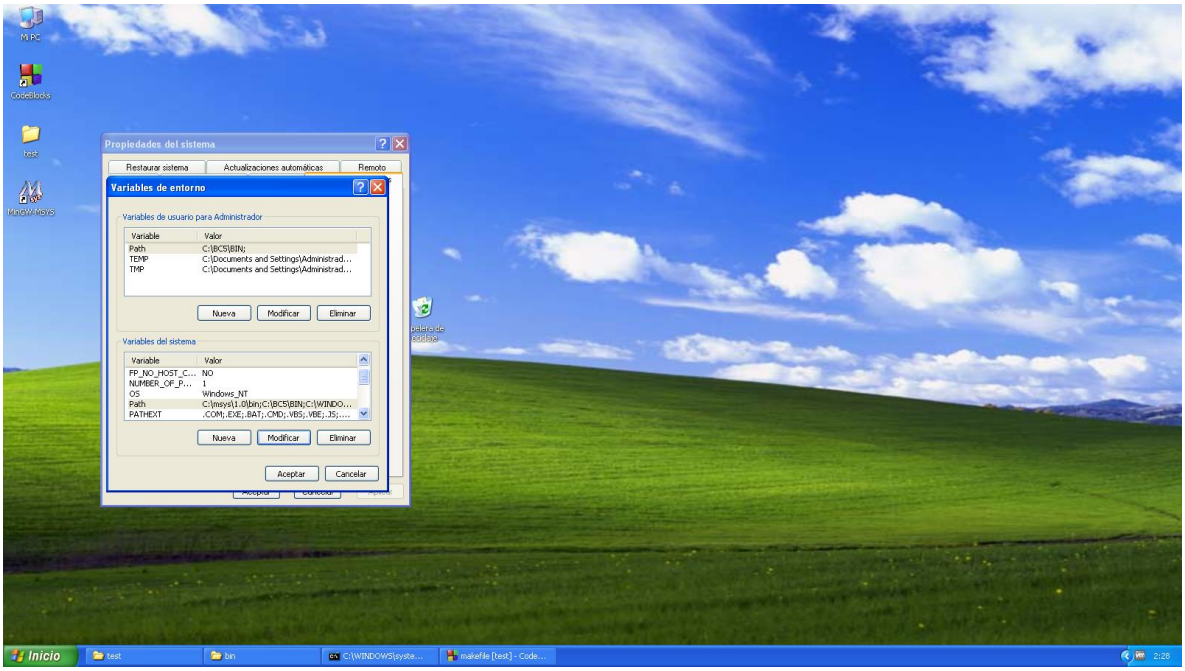

Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección Mis documentos
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Escritorio
Documentos compartidos
Mi PC
Mis sitios de red
Detalles
Borland C++ v5.02
Mi música
Mis imágenes
codeblocks-16.01mingw-setup...
Code::Blocks cross-platform IDE
The Code::Blocks Team
mingw-msys-core-6.1.0-x86.exe
MinGW-MSYS Setup
MateAR.eu
WinRAR.3.70.b7.Edicion.Corp...
Setup - MinGW-MSYS v6.1.0
Ready to Install
Setup is now ready to begin installing MinGW-MSYS on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
User information:
Administrador
MateAR.eu
Start Menu Folder:
MinGW-MSYS 6.1.0
Windows Architecture:
x86
MinGW Details:
Install folder: C:\MinGW
Copyright (C) 2016 - MinGW-MSYS
SourceForge.net
< Back
Install
Cancel
Descripción: MinGW-MSYS Setup Organización: MateAR.eu Versión del archivo: 6.1.0.0 Fecha de creación: 28/08/2016 20:34 Tamaño:
111 MB
Mi PC
Inicio
test
sources
Mis documentos
C:\WINDOWS\syste...
makefile [test] - Code...
mx.makefile - Bloc de ...
Setup - MinGW-MSYS...
2:18


Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección Mis documentos
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Escritorio
Documentos compartidos
Mi PC
Mis sitios de red
Detalles
Borland C++ v5.02
Mi música
Mis imágenes
codeblocks-16.01mingw-setup...
Code::Blocks cross-platform IDE
The Code::Blocks Team
mingw-msys-core-6.1.0-x86.exe
MinGW-MSYS Setup
MateAR.eu
WinRAR.3.70.b7.Edicion.Corp...
Setup - MinGW-MSYS v6.1.0
Installing
Please wait while Setup installs MinGW-MSYS on your computer.
Extracting files...
C:\MinGW\bin\i686-pc-mingw32-gcc-nm.exe
Copyright (C) 2016 - MinGW-MSYS
SourceForge.net
Cancel
Descripción: MinGW-MSYS Setup Organización: MateAR.eu Versión del archivo: 6.1.0.0 Fecha de creación: 28/08/2016 20:34 Tamaño:
111 MB
Mi PC
Inicio
test
sources
Mis documentos
C:\WINDOWS\syste...
makefile [test] - Code...
mx.makefile - Bloc de ...
Setup - MinGW-MSYS...
2:19


Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección Mis documentos
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Escritorio
Documentos compartidos
Mi PC
Mis sitios de red
Detalles
Borland C++ v5.02
Mi música
Mis imágenes
codeblocks-16.01mingw-setup...
Code::Blocks cross-platform IDE
The Code::Blocks Team
mingw-msys-core-6.1.0-x86.exe
MinGW-MSYS Setup
MateAR.eu
WinRAR.3.70.b7.Edicion.Corp...
Setup - MinGW-MSYS v6.1.0
Information
Please read the following important information before continuing.
When you are ready to continue with Setup, click Next.
MinGW Core Libraries
Remember that you can extend this MinGW installation by downloading and installing additional libraries (e.g. zlib, pthreads, ncurses, etc), found at:
<http://sourceforge.net/projects/mingwbundle/files/GCC%206.1.0/Libraries/>
Your feedback is very important to us. Please, send it to:
info@matear.eu
Copyright (C) 2016 - MinGW-MSYS
SourceForge.net
Next >
Descripción: MinGW-MSYS Setup Organización: MateAR.eu Versión del archivo: 6.1.0.0 Fecha de creación: 28/08/2016 20:34 Tamaño:
111 MB
Mi PC
Inicio
test
sources
Mis documentos
C:\WINDOWS\syste...
makefile [test] - Code...
mx.makefile - Bloc de ...
Setup - MinGW-MSYS...
2:22


Mis documentos
Archivo Edición Ver Favoritos Herramientas Ayuda
Atrás Búsqueda Carpetas
Dirección Mis documentos
Tareas de archivo y carpeta
Cambiar nombre a este archivo
Mover este archivo
Copiar este archivo
Publicar este archivo en Web
Enviar este archivo por correo electrónico
Eliminar este archivo
Otros sitios
Escritorio
Documentos compartidos
Mi PC
Mis sitios de red
Detalles
Borland C++ v5.02
Mi música
Mis imágenes
codeblocks-16.01mingw-setup...
Code::Blocks cross-platform IDE
The Code::Blocks Team
mingw-msys-core-6.1.0-x86.exe
MinGW-MSYS Setup
MateAR.eu
WinRAR.3.70.b7.Edicion.Corp...
Setup - MinGW-MSYS v6.1.0
Completing the MinGW-MSYS Setup Wizard
Setup has finished installing MinGW-MSYS on your computer. The application may be launched by selecting the installed shortcuts.
Click Finish to exit Setup.
View Readme.pdf
SourceForge.net
< Back
Finish
Descripción: MinGW-MSYS Setup Organización: MateAR.eu Versión del archivo: 6.1.0.0 Fecha de creación: 28/08/2016 20:34 Tamaño:
111 MB
Mi PC
Inicio
test
sources
Mis documentos
C:\WINDOWS\syste...
makefile [test] - Code...
mx.makefile - Bloc de ...
Setup - MinGW-MSYS...
2:22

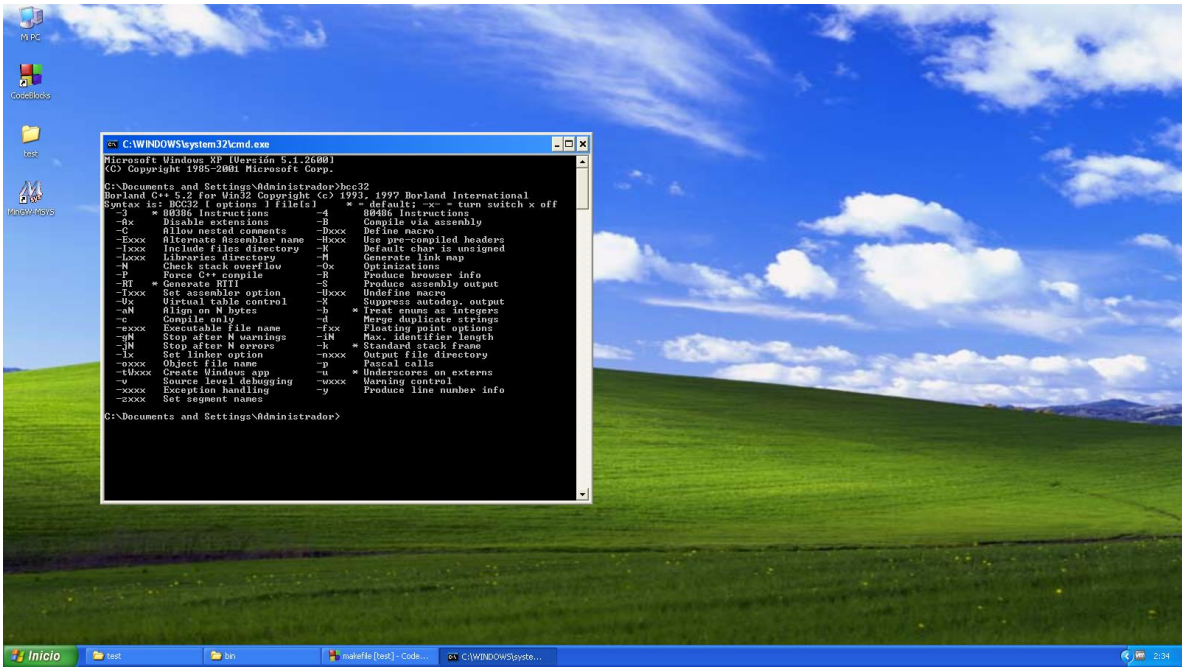
So far all necessary software have been installed. Now we proceed to configure them, mainly the compiler and the make utility to use.



On the system variables we need to configure the “path” variable writing this string as it is:

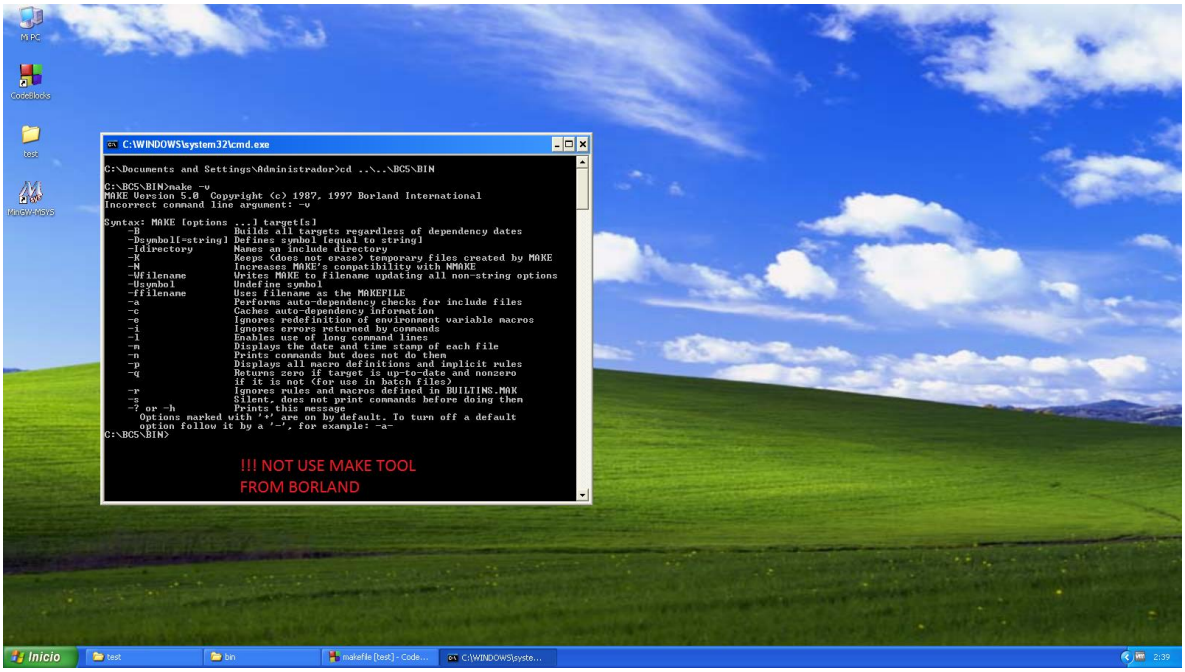
C:\msys\1.0\bin;C:\BC5\BIN;

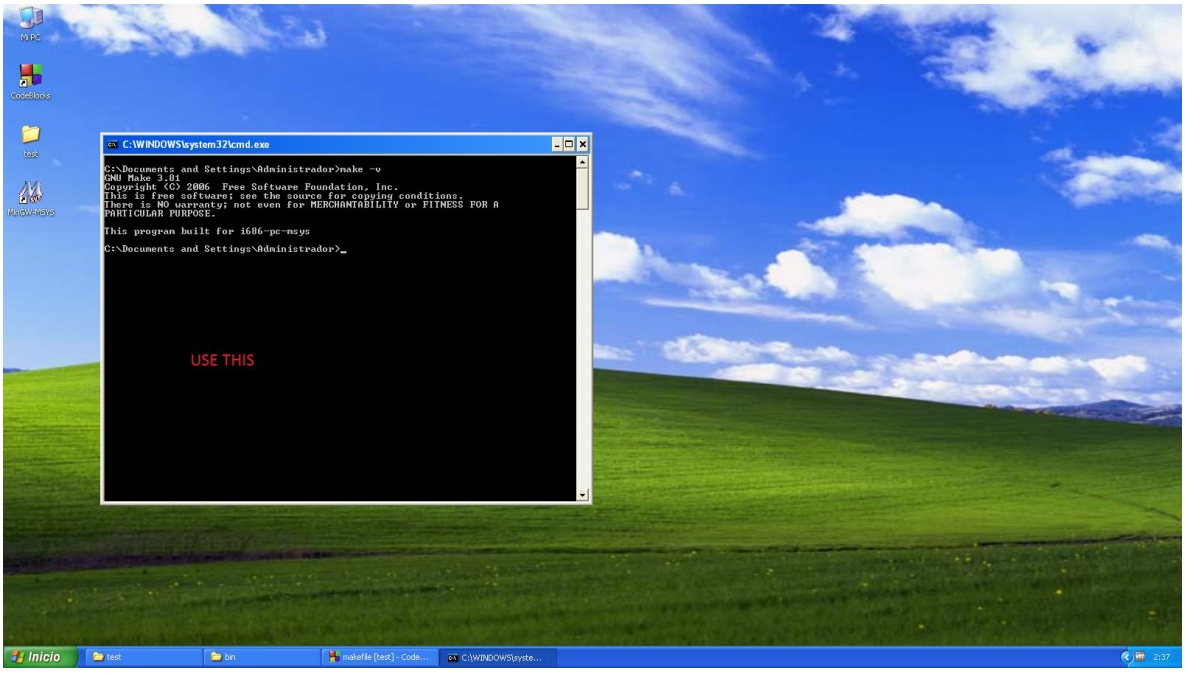
Once this is done a test can be done opening a command line toll and writing: bcc32



The command bcc32 shows the compiler version and possible use.

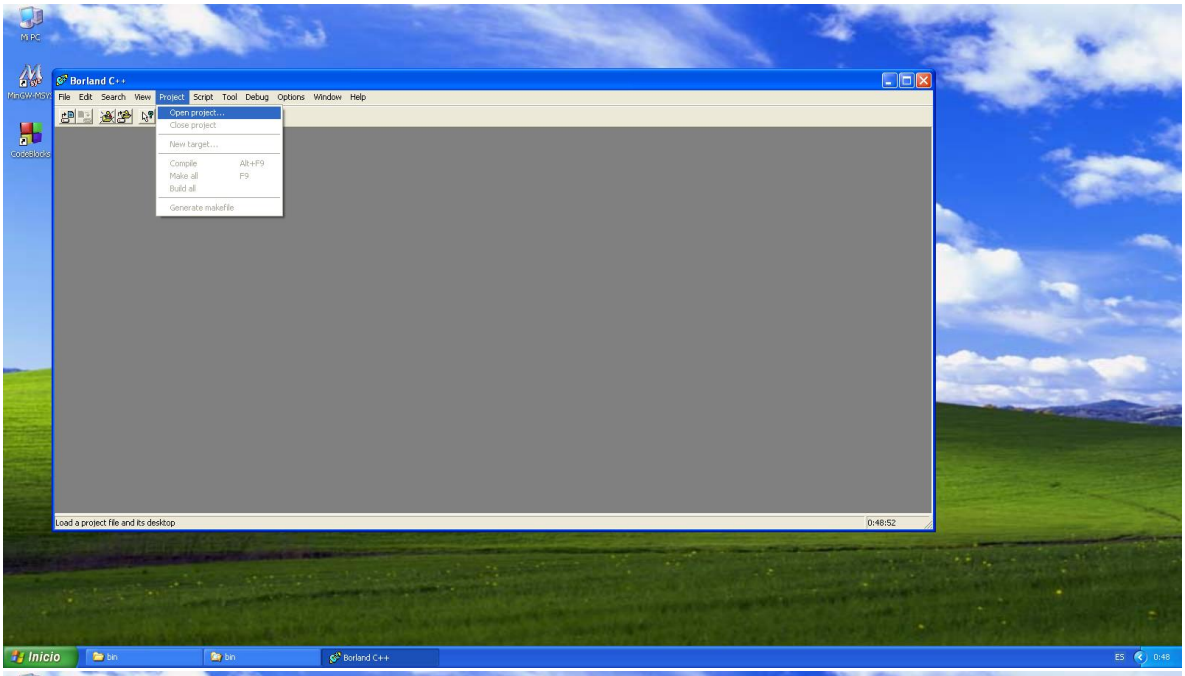
The command make –v shows the version. We have to use the “make” utility of the MinGW because the one that comes with Borland C 5.02 is too old and gives a number of errors trying to obtain the CISIS utilities.

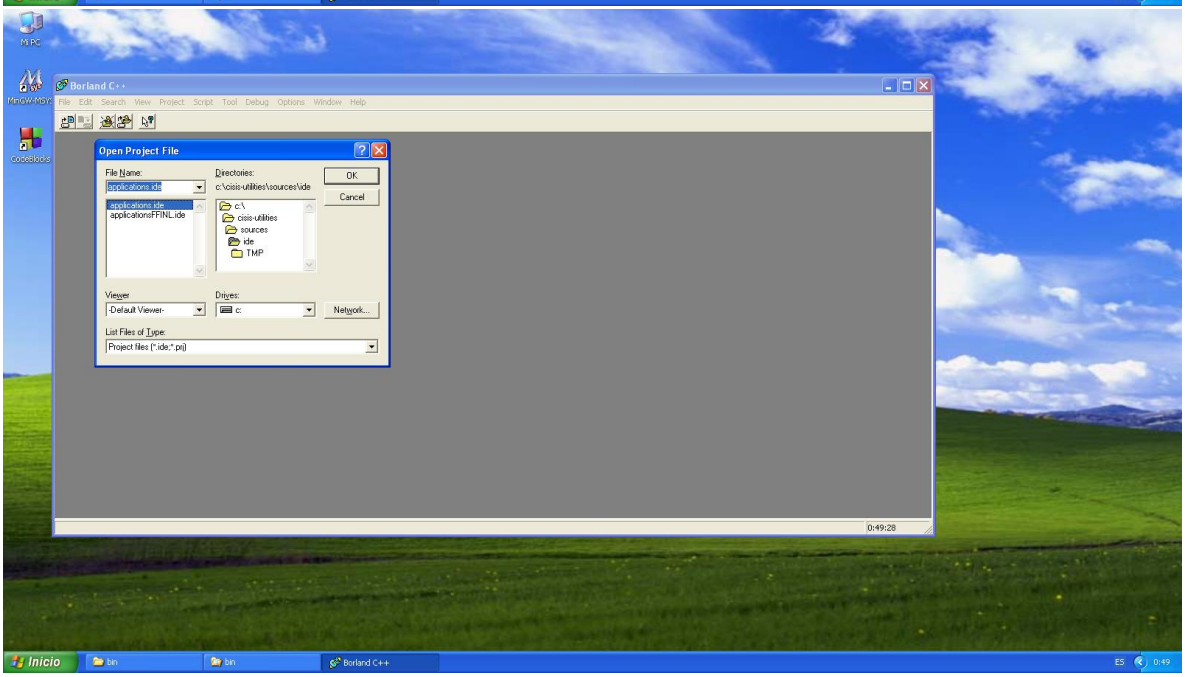




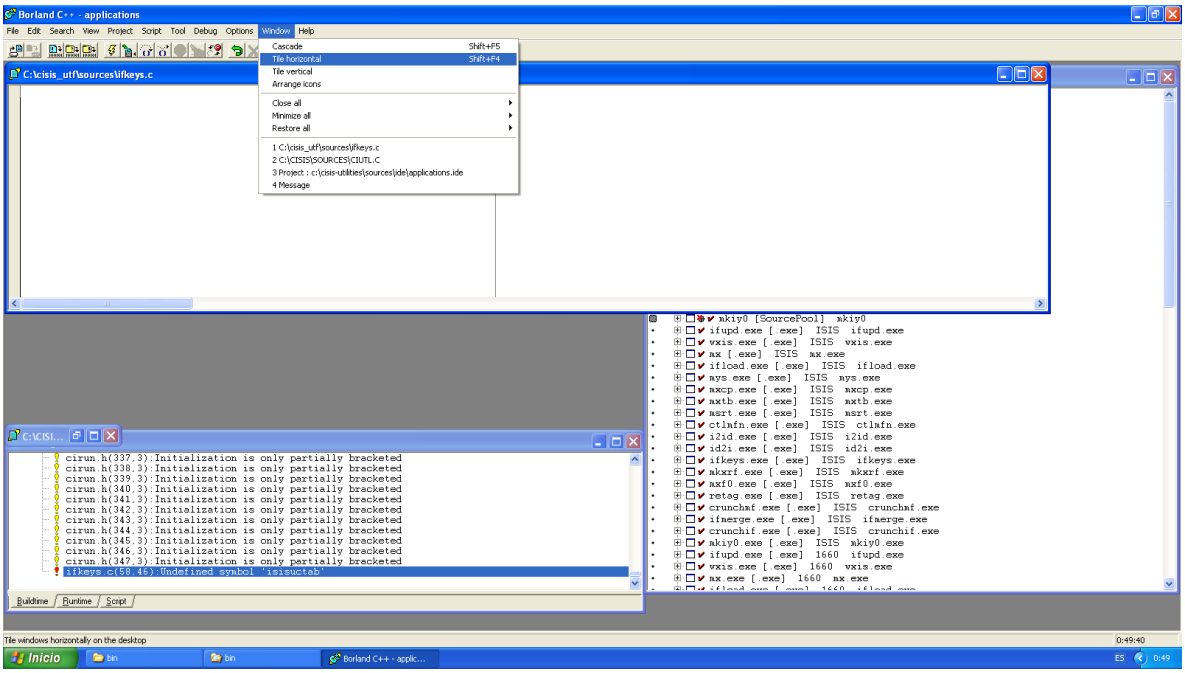
How to use Borland C++ 5.02 to obtain the utilities

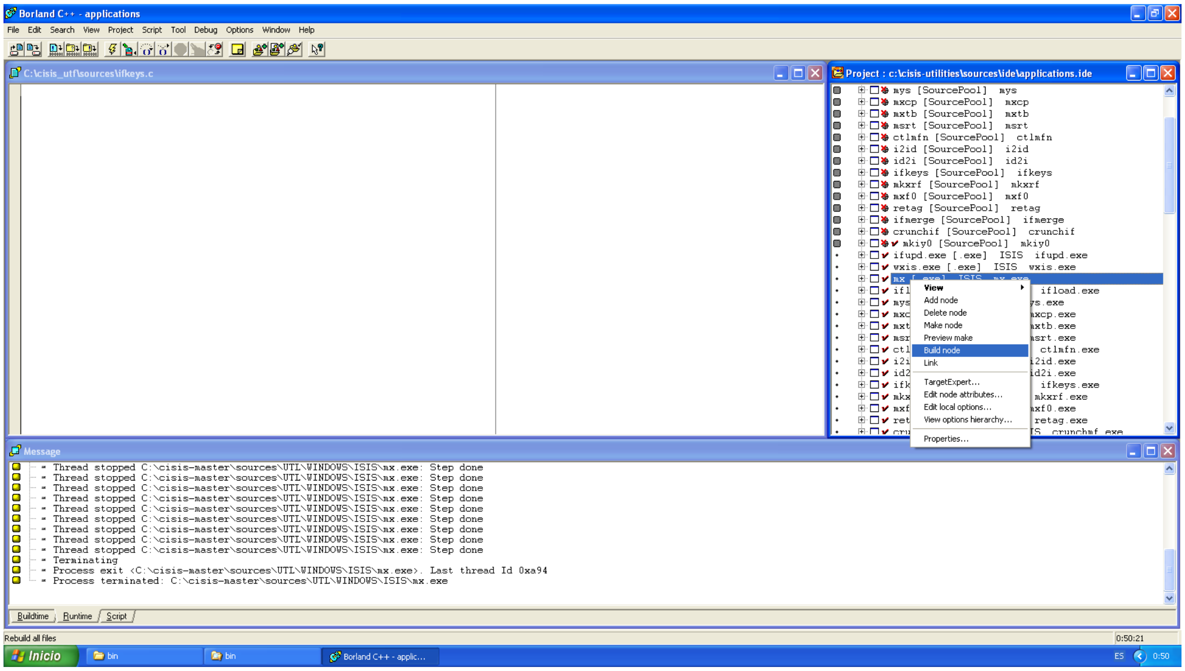
This set of images shows how to use borland to obtain the utilities, however a easier method can be found latter on this manual, we recommend to use it.

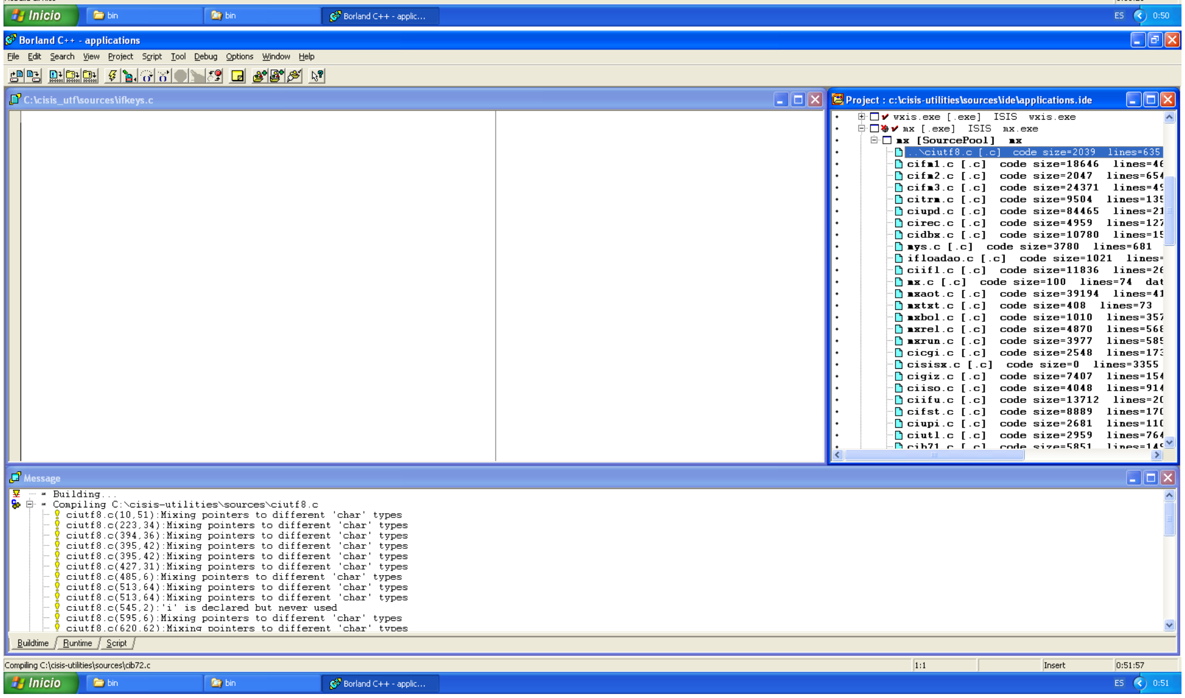

Borland C++
File Edit Search View Project Script Tool Debug Options Window Help
Open project...
Close project
New target...
Compile Alt+F9
Make all F9
Build all
Generate makefile
Load a project file and its desktop
0:48:52
Inicio
bin
bin
Borland C++
ES
0:48

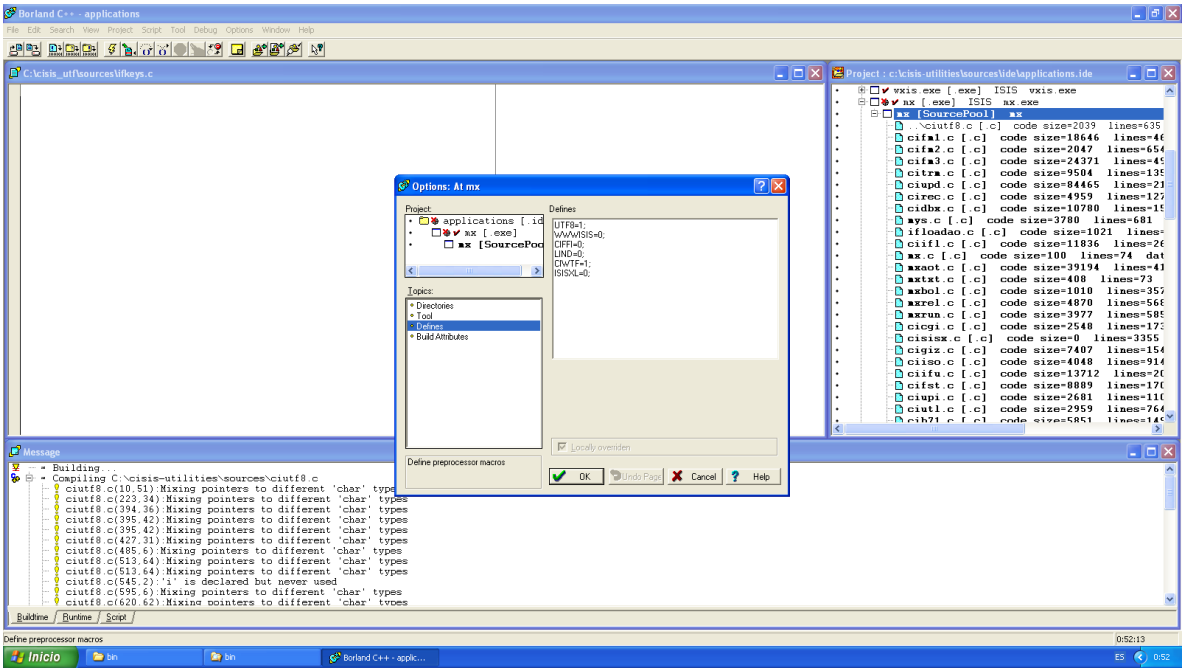

Borland C++
File Edit Search View Project Script Tool Debug Options Window Help
Open Project File
File Name:
applications.ide
Directories:
c:\cisis-utilities\sources\ide
OK
Cancel
applications.ide
applicationsFFINL.ide
c:\
cisis-utilities
sources
ide
TMP
Viewer:
-Default Viewer-
Drives:
c:
Network...
List Files of Type:
Project files (*.ide;*.prj)
0:49:28
Inicio
bin
bin
Borland C++
ES
0:49

The file to open is in C:\cisis-utilities\sources\ide\ applications.ide




Borland C++ - applications
File Edit Search View Project Script Tool Debug Options Window Help
C:\cisis_utf\sources\ifkeys.c
Project : c:\cisis-utilities\sources\ide\applications.ide
mys [SourcePool] mys
mxcp [SourcePool] mxcp
mxtb [SourcePool] mxtb
msrt [SourcePool] msrt
ctlmfn [SourcePool] ctlmfn
i2id [SourcePool] i2id
id2i [SourcePool] id2i
ifkeys [SourcePool] ifkeys
mkxrf [SourcePool] mkxrf
mxf0 [SourcePool] mxf0
retag [SourcePool] retag
ifmerge [SourcePool] ifmerge
crunchif [SourcePool] crunchif
mkiy0 [SourcePool] mkiy0
ifupd.exe [.exe] ISIS ifupd.exe
wxis.exe [.exe] ISIS wxis.exe
View
Add node
Delete node
Make node
Preview make
Build node
Link
TargetExpert...
Edit node attributes...
Edit local options...
View options hierarchy...
Properties...
Message
Thread stopped C:\cisis-master\sources\UTL\WINDOWS\ISIS\mx.exe: Step done
Terminating
Process exit (C:\cisis-master\sources\UTL\WINDOWS\ISIS\mx.exe). Last thread Id 0xa94
Process terminated: C:\cisis-master\sources\UTL\WINDOWS\ISIS\mx.exe
Buildtime
Runtime
Script
Rebuild all files
0:50:21
Inicio
bin
bin
Borland C++ - applic...
ES
0:50

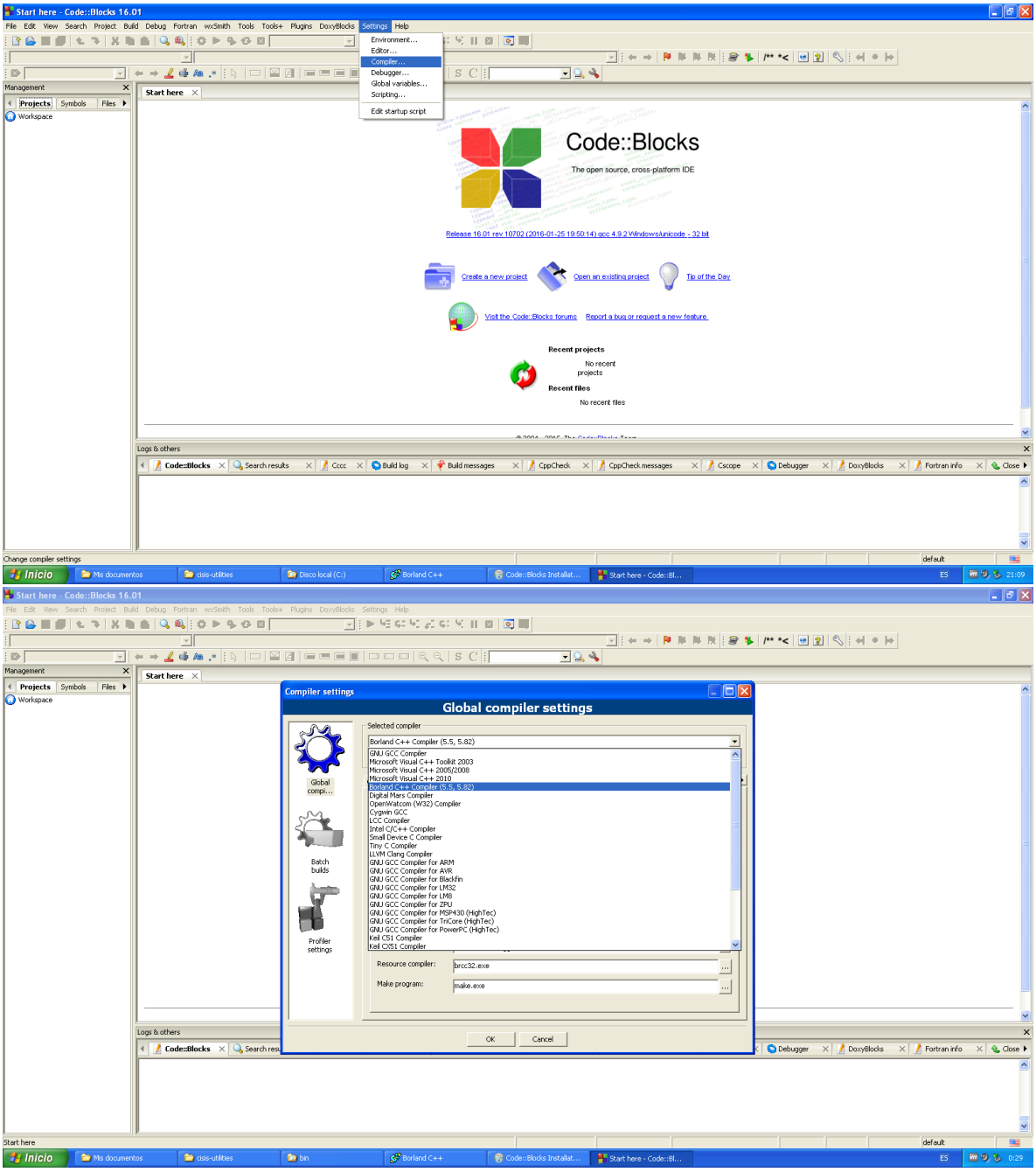

Borland C++ - applications
File Edit Search View Project Script Tool Debug Options Window Help
C:\cisis_utf\sources\ifkeys.c
Project : c:\cisis-utilities\sources\ide\applications.ide
wxis.exe [.exe] ISIS wxis.exe
mx [.exe] ISIS mx.exe
mx [SourcePool] mx
..\ciutf8.c [.c] code size=2039 lines=635
cifm1.c [.c] code size=18646
cifm2.c [.c] code size=2047 lines=654
cifm3.c [.c] code size=24371
citrm.c [.c] code size=9504
ciupd.c [.c] code size=84465
cirec.c [.c] code size=4959
cidbx.c [.c] code size=10780
mys.c [.c] code size=3780 lines=681
ifloadao.c [.c] code size=1021
ciifl.c [.c] code size=11836
mx.c [.c] code size=100 lines=74
mxaot.c [.c] code size=39194
mxtxt.c [.c] code size=408 lines=73
mxbol.c [.c] code size=1010
mxrel.c [.c] code size=4870
mxrun.c [.c] code size=3977
cicgi.c [.c] code size=2548
cisisx.c [.c] code size=0 lines=3355
cigiz.c [.c] code size=7407
ciiso.c [.c] code size=4048
ciifu.c [.c] code size=13712
cifst.c [.c] code size=8889
ciupi.c [.c] code size=2681
ciutl.c [.c] code size=2959 lines=764
Message
Building...
Compiling C:\cisis-utilities\sources\ciutf8.c
ciutf8.c(10,51):Mixing pointers to different 'char' types
ciutf8.c(223,34):Mixing pointers to different 'char' types
ciutf8.c(394,36):Mixing pointers to different 'char' types
ciutf8.c(395,42):Mixing pointers to different 'char' types
ciutf8.c(395,42):Mixing pointers to different 'char' types
ciutf8.c(427,31):Mixing pointers to different 'char' types
ciutf8.c(485,6):Mixing pointers to different 'char' types
ciutf8.c(513,64):Mixing pointers to different 'char' types
ciutf8.c(513,64):Mixing pointers to different 'char' types
ciutf8.c(545,2):'i' is declared but never used
ciutf8.c(595,6):Mixing pointers to different 'char' types
Buildtime
Runtime
Script
Compiling C:\cisis-utilities\sources\cib72.c
1:1
Insert
0:51:57
Inicio
bin
bin
Borland C++ - applic...
ES
0:51



This IDE is too old and lacks of basic functions so the use of other IDE is highly recommended.

How to configure Codeblock to use Borland C 5.02 compiler

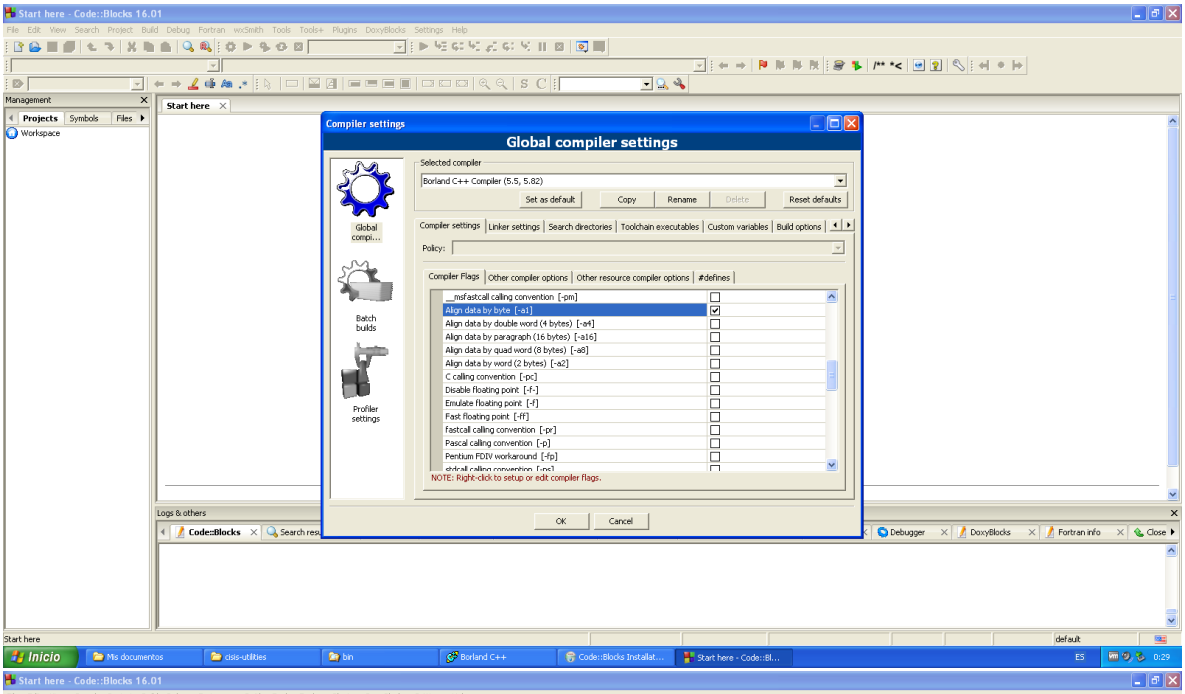
After running CodeBlocks it detects that Borland C 5.02 compiler is available to use. So the first thing to do is to put it as default compiler.

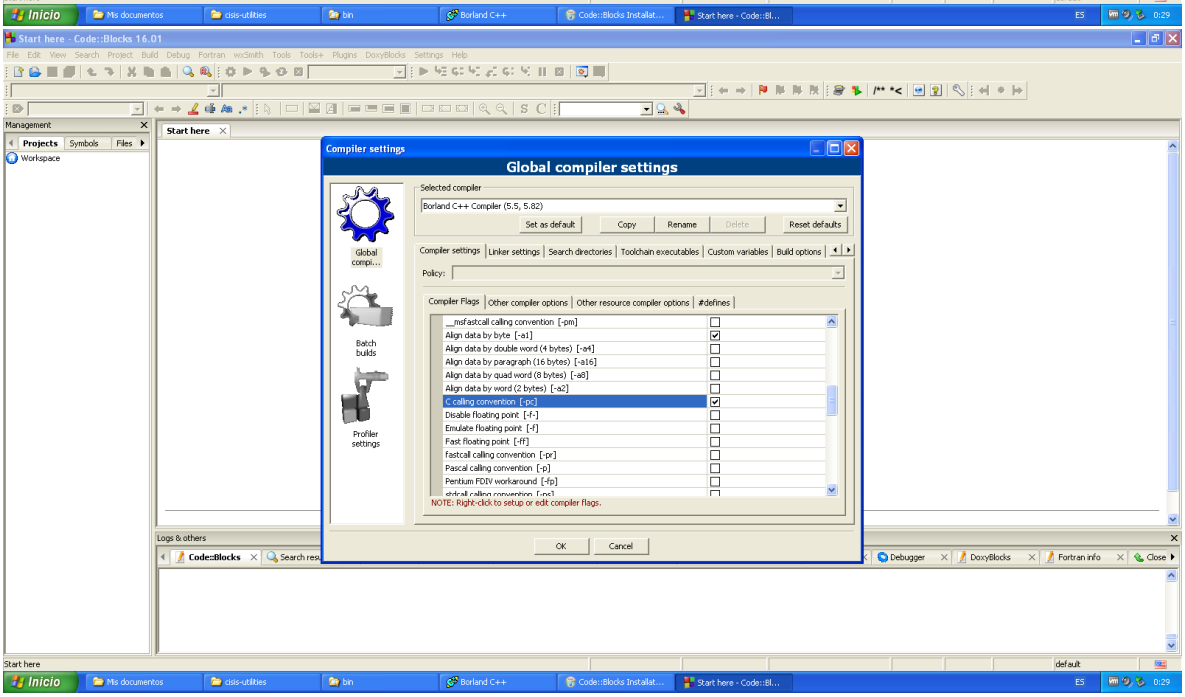


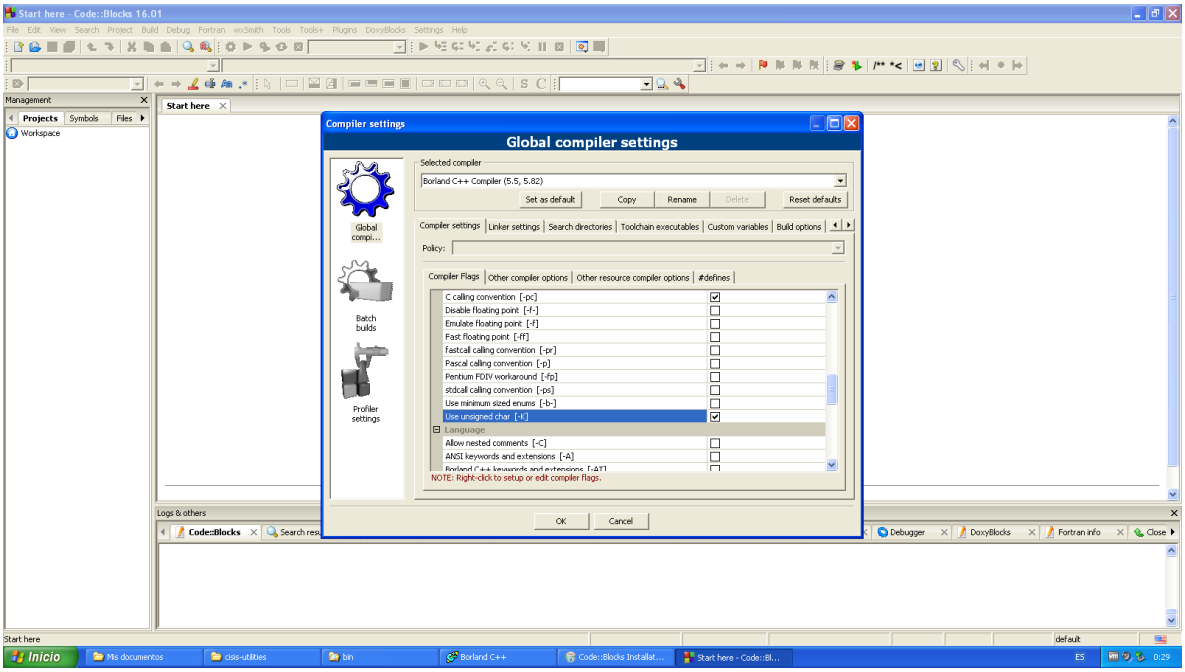
You click on “Set as Default”. Then we have to activate the tree instructions specified on the compilation instructions:

2. Set compiler configurations.

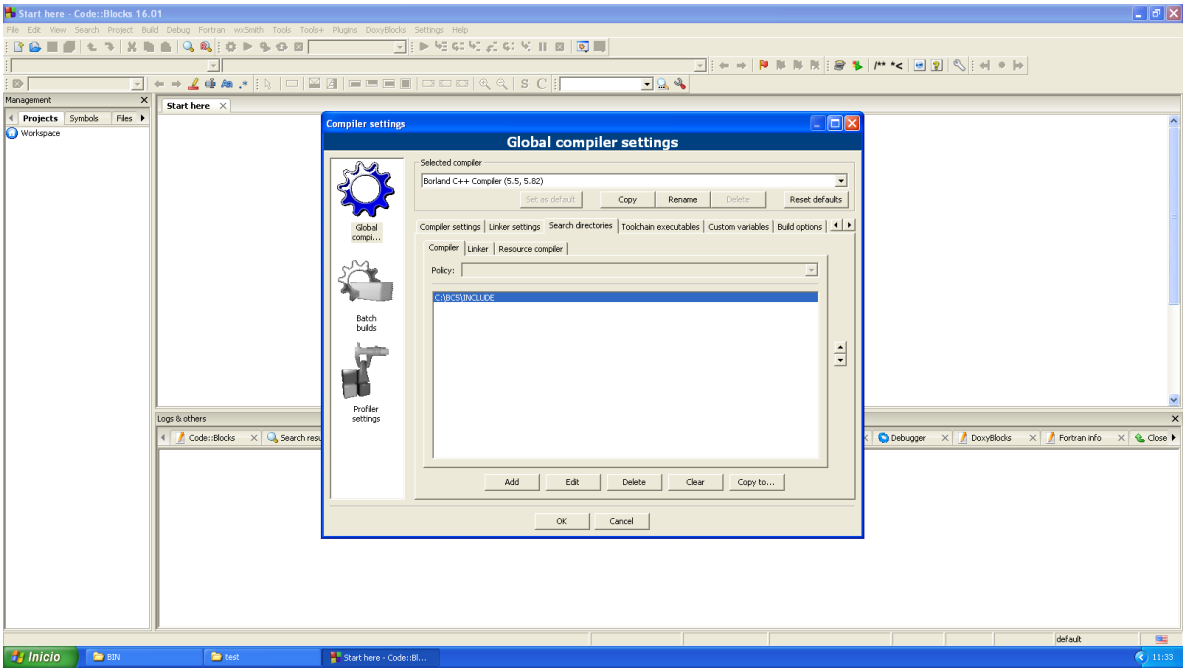
```
data alignment => byte
calling conventions => C
unsigned char => set
```


Start here - Code::Blocks 16.01
Compiler settings
Global compiler settings
Selected compiler
Borland C++ Compiler (5.5, 5.82)
Set as default
Copy
Rename
Delete
Reset defaults
Compiler settings
Linker settings
Search directories
Toolchain executables
Custom variables
Build options
Policy:
Compiler Flags
Other compiler options
Other resource compiler options
#defines
__msfastcall calling convention [-pm]
Align data by byte [-a1]
Align data by double word (4 bytes) [-a4]
Align data by paragraph (16 bytes) [-a16]
Align data by quad word (8 bytes) [-a8]
Align data by word (2 bytes) [-a2]
C calling convention [-pc]
Disable floating point [-f-]
Emulate floating point [-f]
Fast floating point [-ff]
fastcall calling convention [-pr]
Pascal calling convention [-p]
Pentium FDIV workaround [-fp]
NOTE: Right-click to setup or edit compiler flags.
Global compi...
Batch builds
Profiler settings
OK
Cancel
Management
Projects
Symbols
Files
Workspace
Start here
Logs & others
Code::Blocks
Debugger
DoxyBlocks
Fortran info
Close
Inicio
Borland C++
Start here - Code::Bl...
ES
0:29

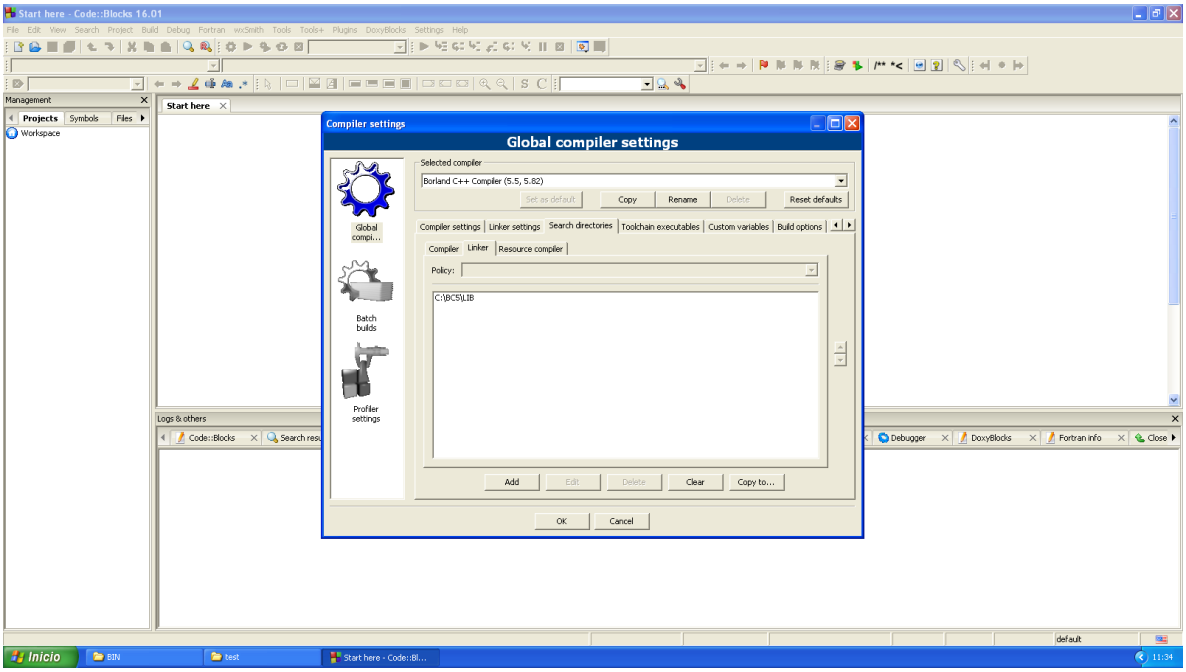

Start here - Code::Blocks 16.01
Compiler settings
Global compiler settings
Selected compiler
Borland C++ Compiler (5.5, 5.82)
Set as default
Copy
Rename
Delete
Reset defaults
Compiler settings
Linker settings
Search directories
Toolchain executables
Custom variables
Build options
Policy:
Compiler Flags
Other compiler options
Other resource compiler options
#defines
__msfastcall calling convention [-pm]
Align data by byte [-a1]
Align data by double word (4 bytes) [-a4]
Align data by paragraph (16 bytes) [-a16]
Align data by quad word (8 bytes) [-a8]
Align data by word (2 bytes) [-a2]
C calling convention [-pc]
Disable floating point [-f-]
Emulate floating point [-f]
Fast floating point [-ff]
fastcall calling convention [-pr]
Pascal calling convention [-p]
Pentium FDIV workaround [-fp]
NOTE: Right-click to setup or edit compiler flags.
Global compi...
Batch builds
Profiler settings
OK
Cancel
Management
Projects
Symbols
Files
Workspace
Start here
Logs & others
Code::Blocks
Debugger
DoxyBlocks
Fortran info
Close
Inicio
Borland C++
Start here - Code::Bl...
ES
0:29



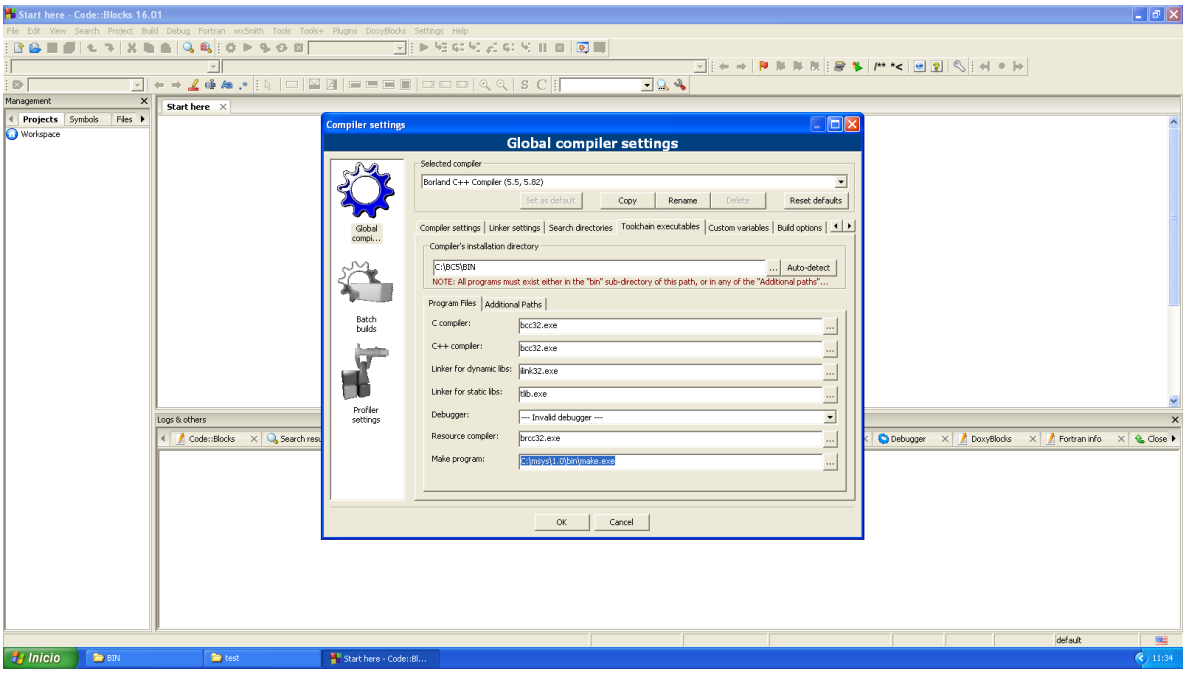
We configure the path in the “search directories”. In “compiler” add C:\BC5\INCLUDE



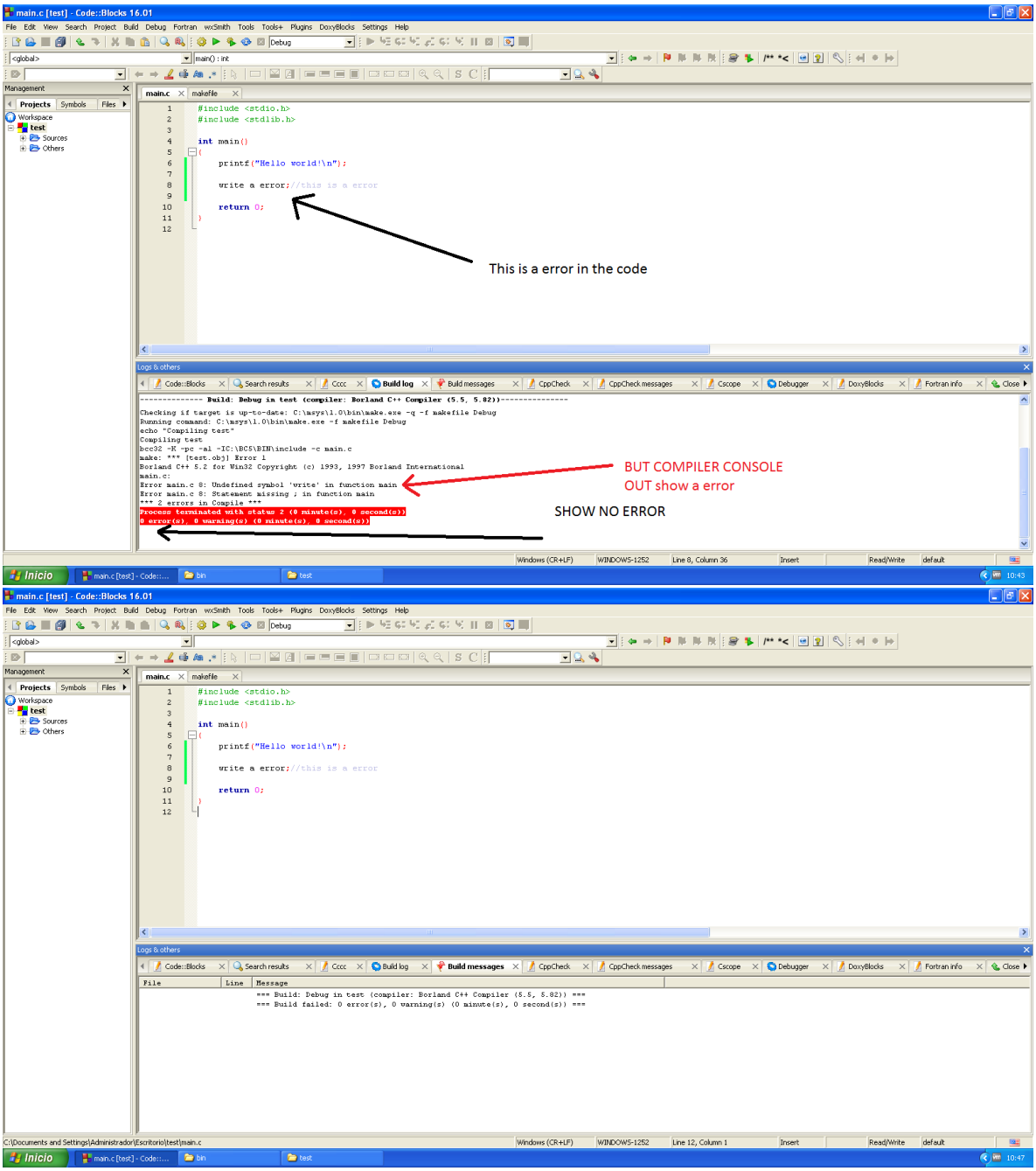
In linker add C:\BC5\LIB



Now in the “toolchain executables” tab we choose the “make” utility from the MinGW in C:\msys\1.0\bin\make.exe

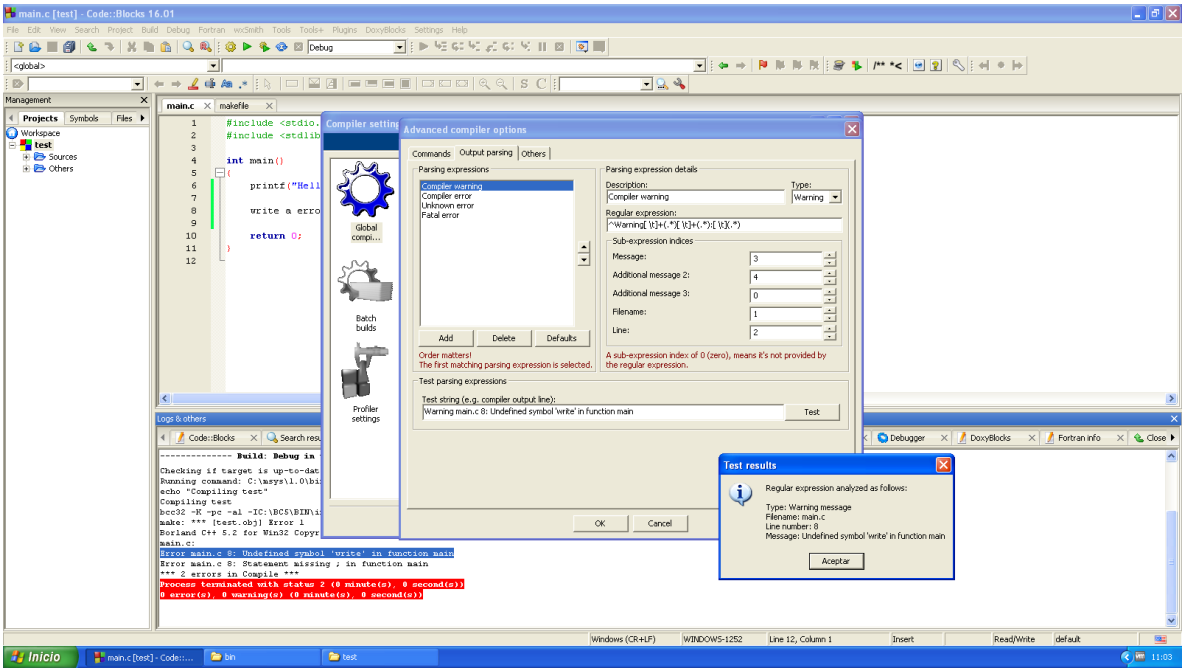


If we compile a test program we can see that the IDE does not recognize the errors.



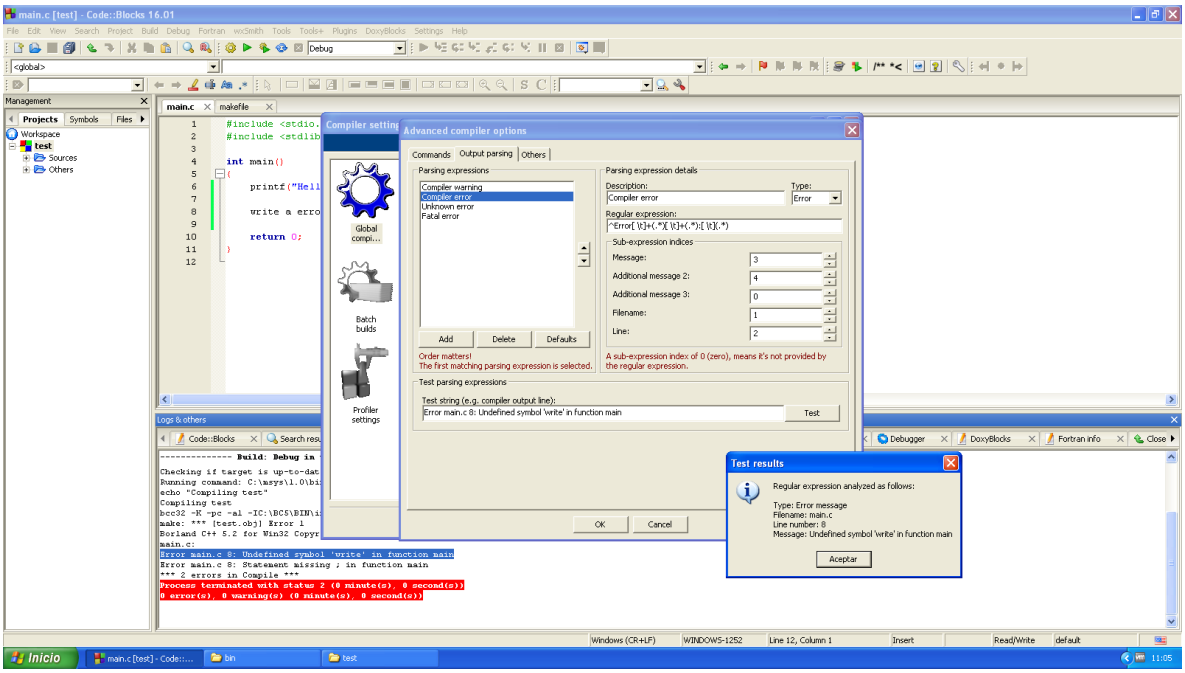
To correct this w ego to the compiler Advanced Option and in “compiler warning” write:

^Warning[\t]+(.*)[\t]+(.*):[\t](.*)

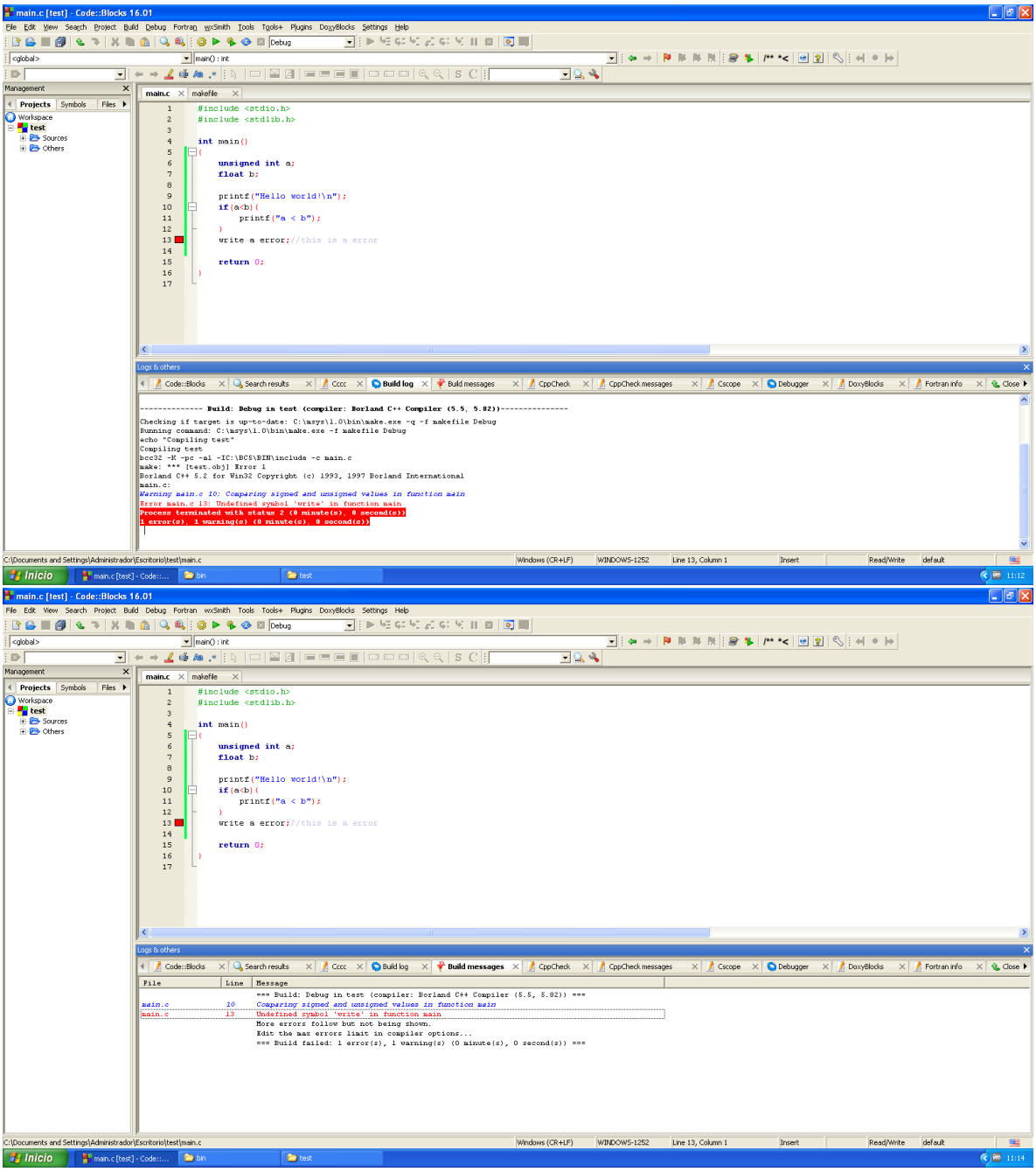


In “compiler error” write:

^Error[\t]+(.*)[\t]+(.*):[\t](.*)

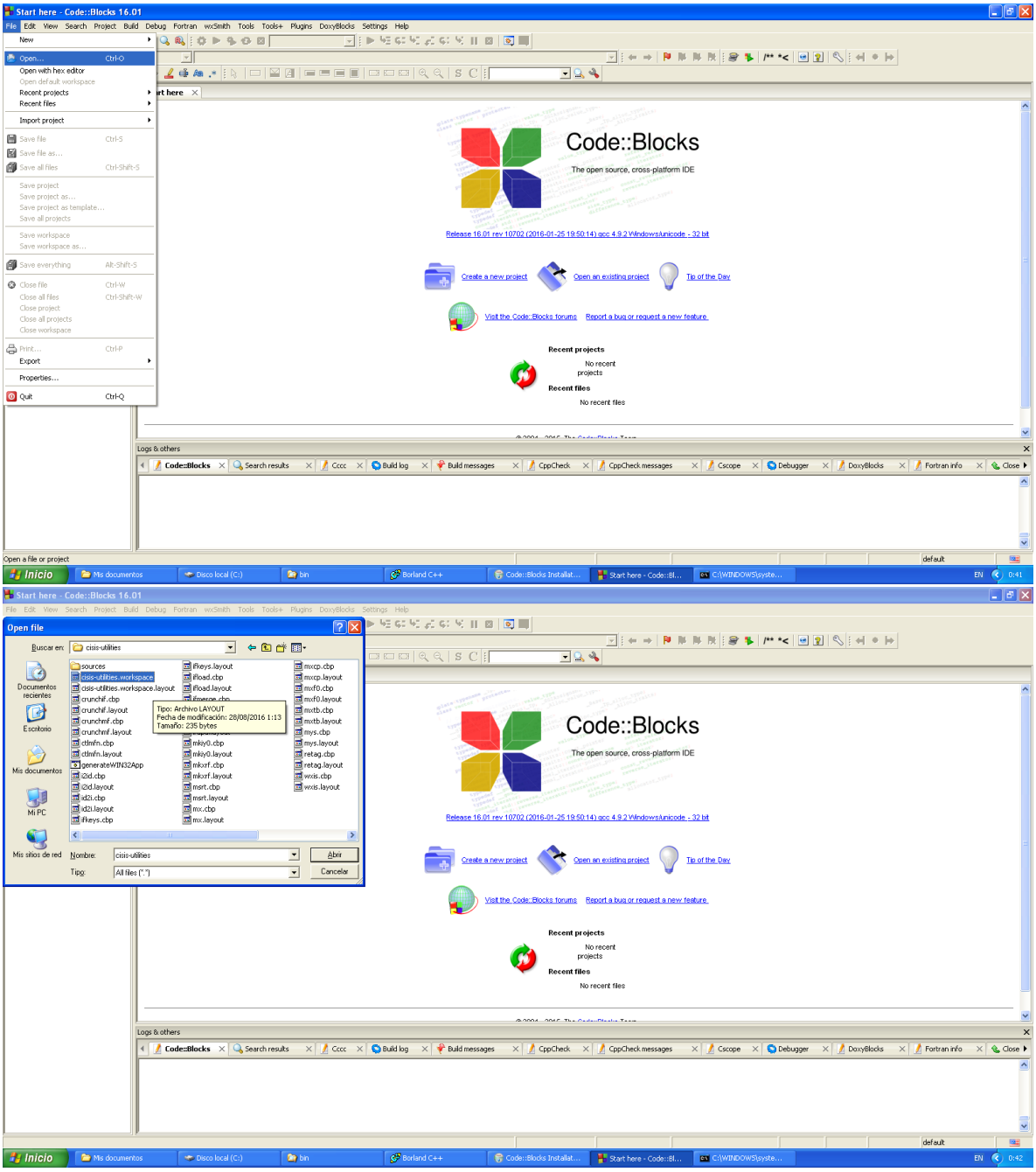


After this we can see that the warning and error messages are correctly detected by the IDE.

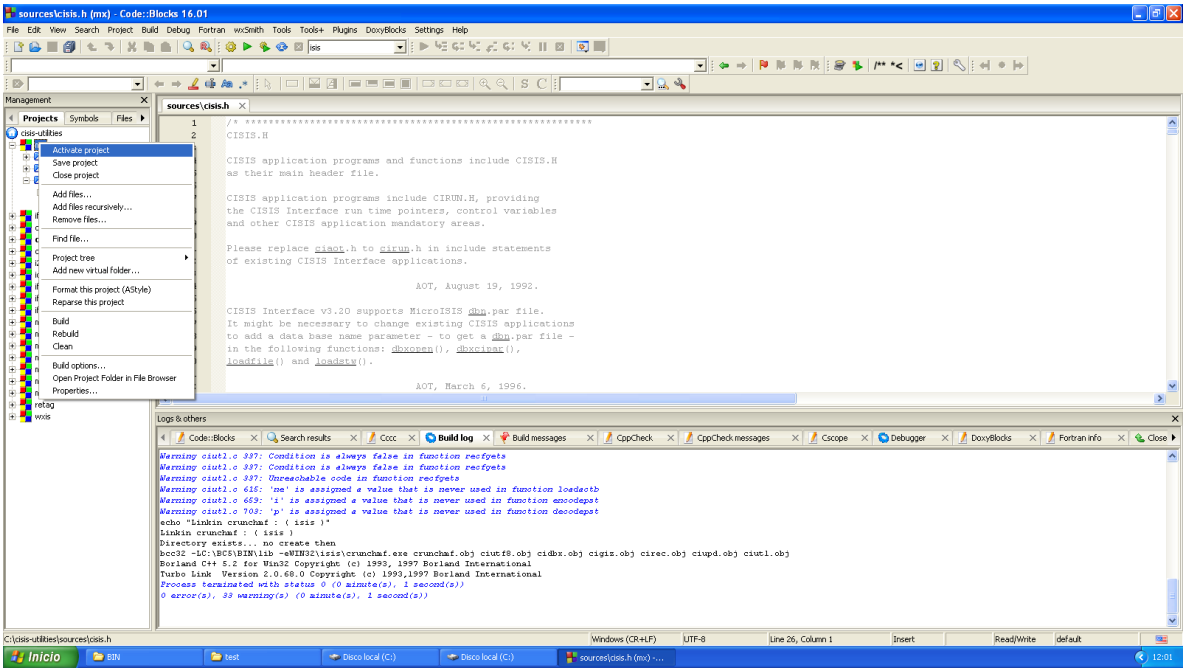


CISIS Project in CodeBlocks

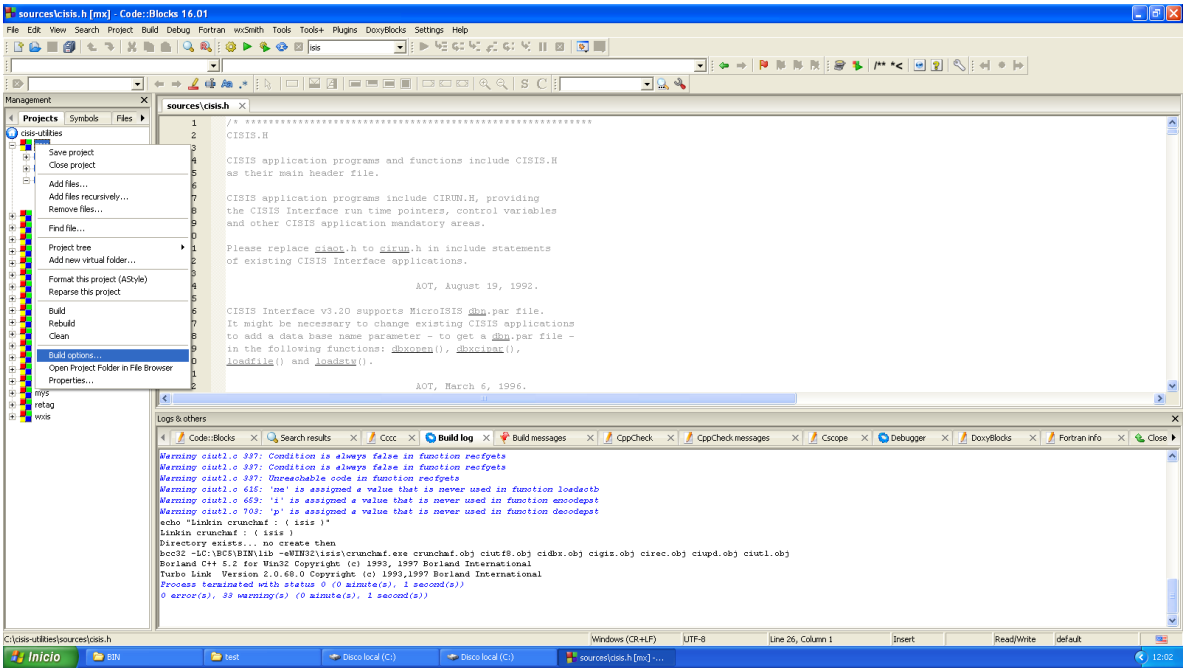
The CISIS Project folder is located in C:\cisis-utilities and it consists of a workspace with all the utilities. A new makefile file was created for every utility. When using Codeblocks open the file cisis-utilities.workspace. The executables can be found in C:\cisis-utilities\sources\WIN32 and C:\cisis-utilities\sources\WIN32_UTF8

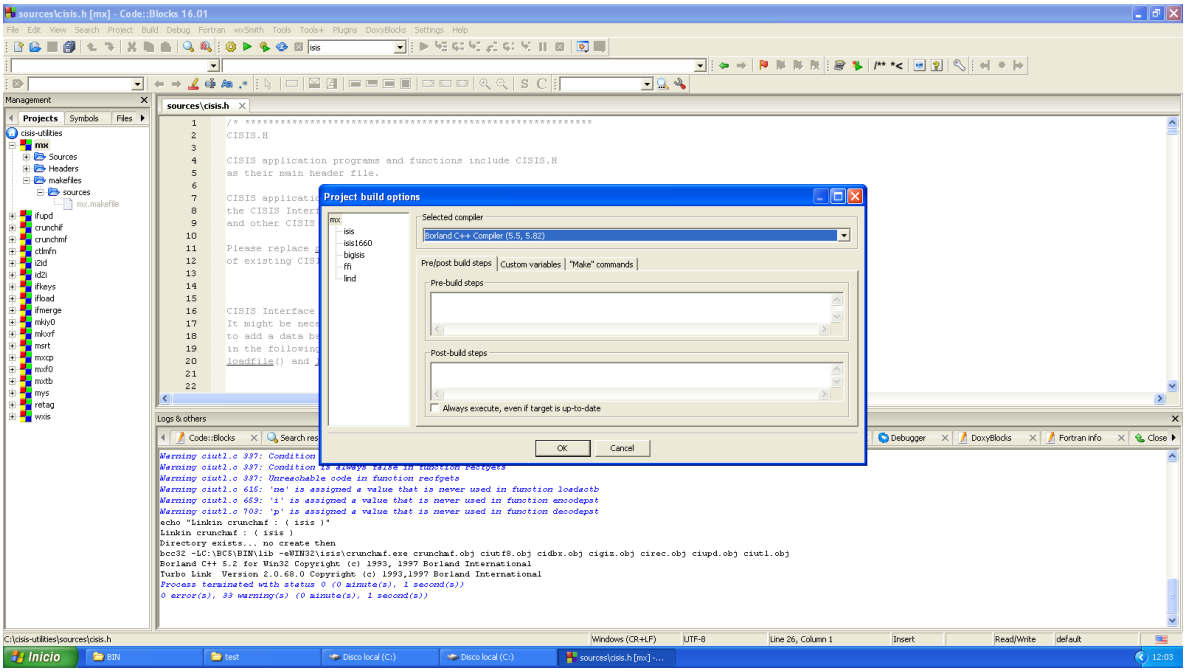


To activate a desire project:

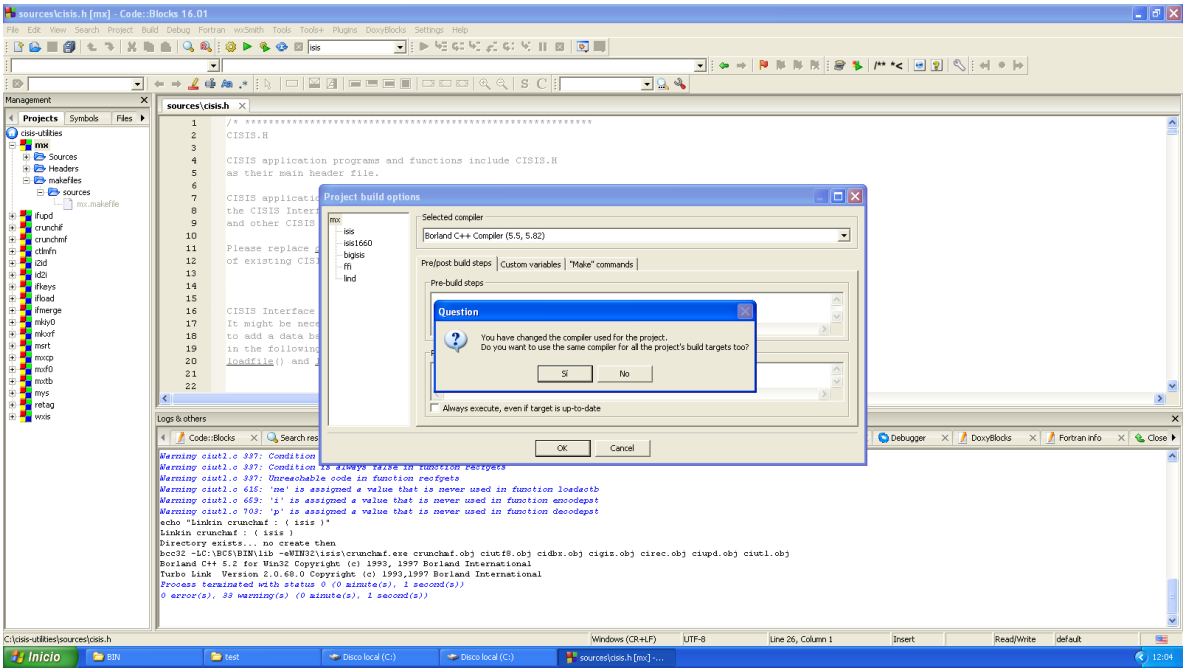


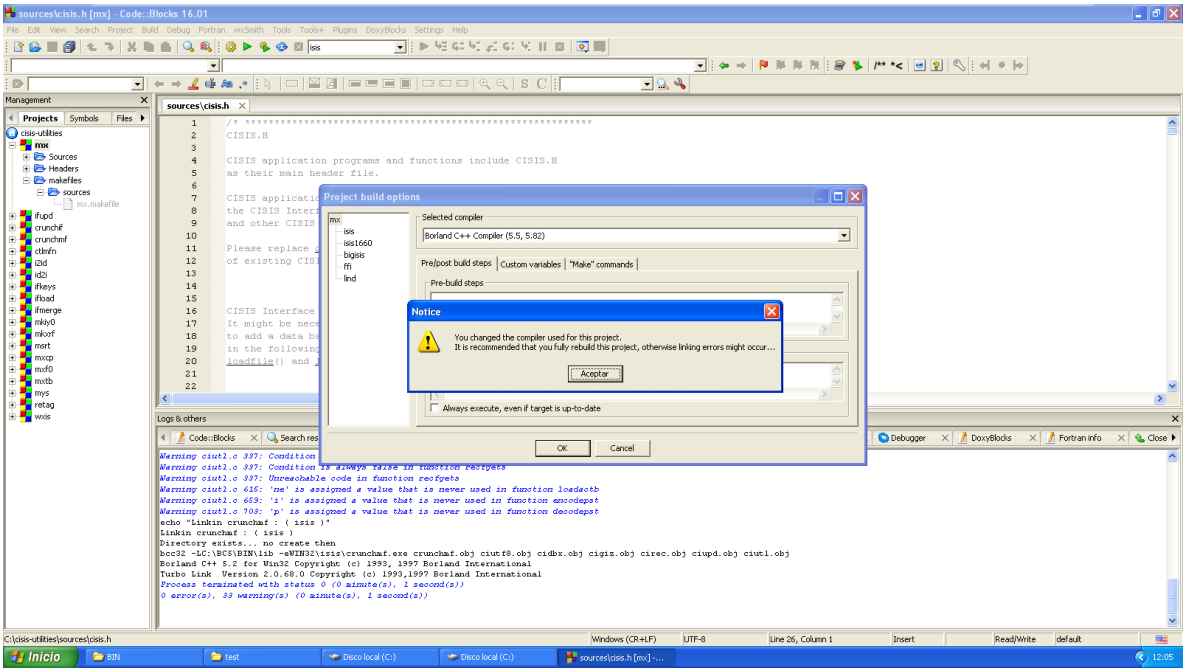
To set the compiler to use in every Project (this only needs to be set once in every project)



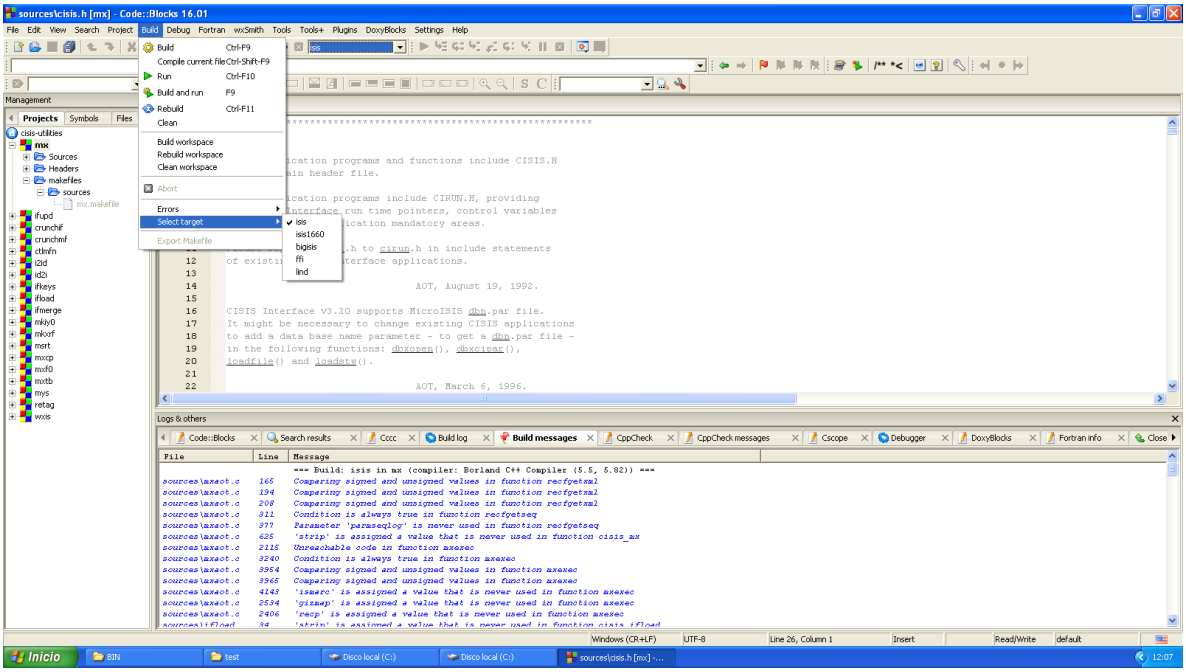


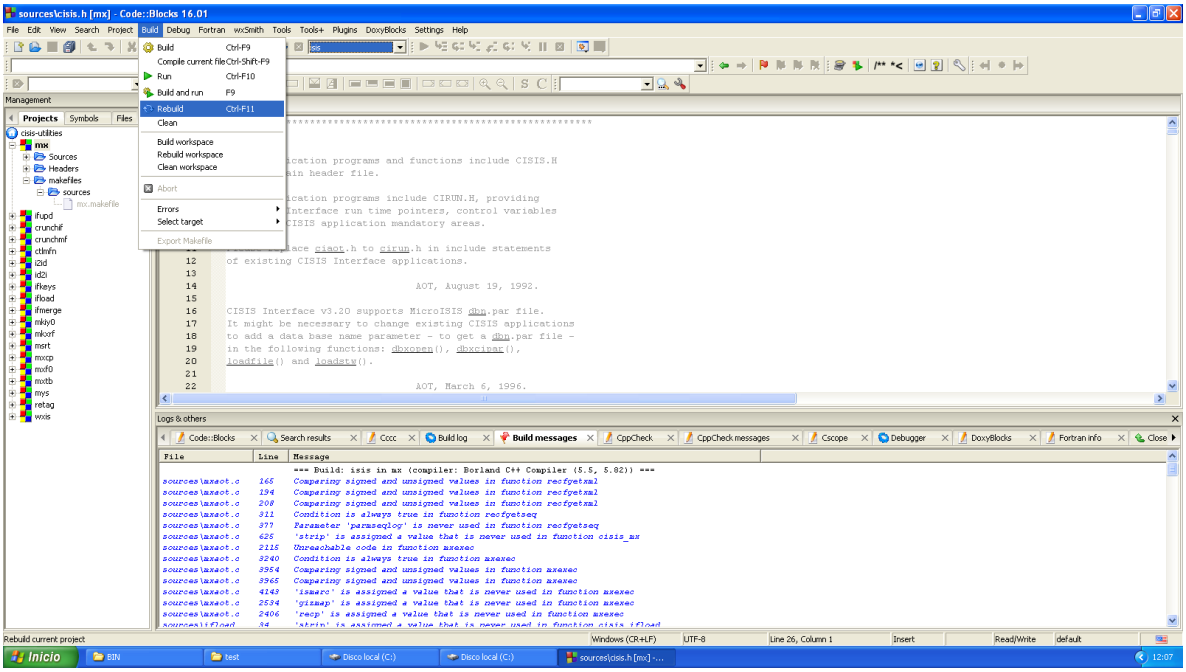
And we decide to use that compiler for all the possible targets of that Project.





To recompile a Project choose the target y use rebuild





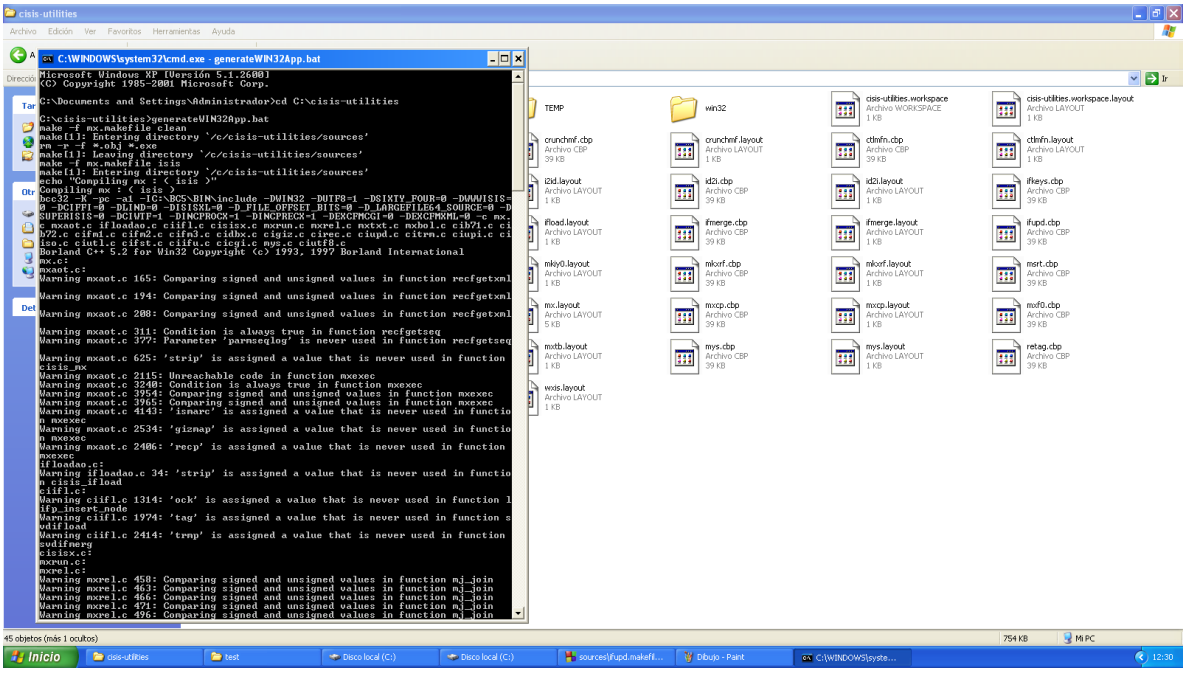
The best way to obtain all utilities at once

We created two scripts to generate all he utilities automatically:

generateWIN32App.bat and generateWIN32_UTF8App.bat

The utilities are stored in C:\cisis-utilities\sources\WIN32 and

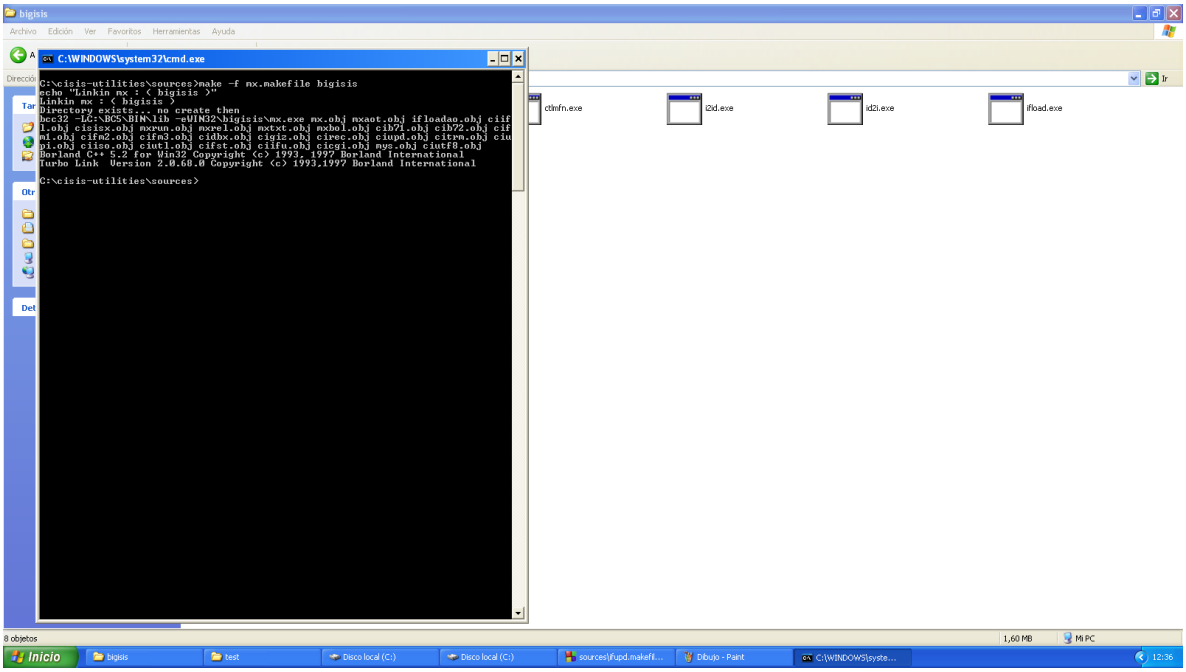
C:\cisis-utilities\sources\WIN32_UTF8 accordinly.



If you want to compile a specific utility you can use the make with the makefile of that utility and the database versión and if it is UTF8 or not.

make –f mx.makefile bigisis → by default it is UTF8

make –f mx.makefile bigisis UTF8=0 → non utf8



You can compile all the versions

make –f mx.makefile all → by default it is UTF8

make –f mx.makefile all UTF8=0 → non UTF8