

# Creating gc-linux bootable discs

## Using Nero Burning ROM and NeroGC Helper Utility

As the title suggests, this is a step-by-step guide to creating gc-linux bootable dvds on Windows.

Before we get started, you will need to have Nero Burning ROM installed. If not - stop reading now - this guide will be useless to you.

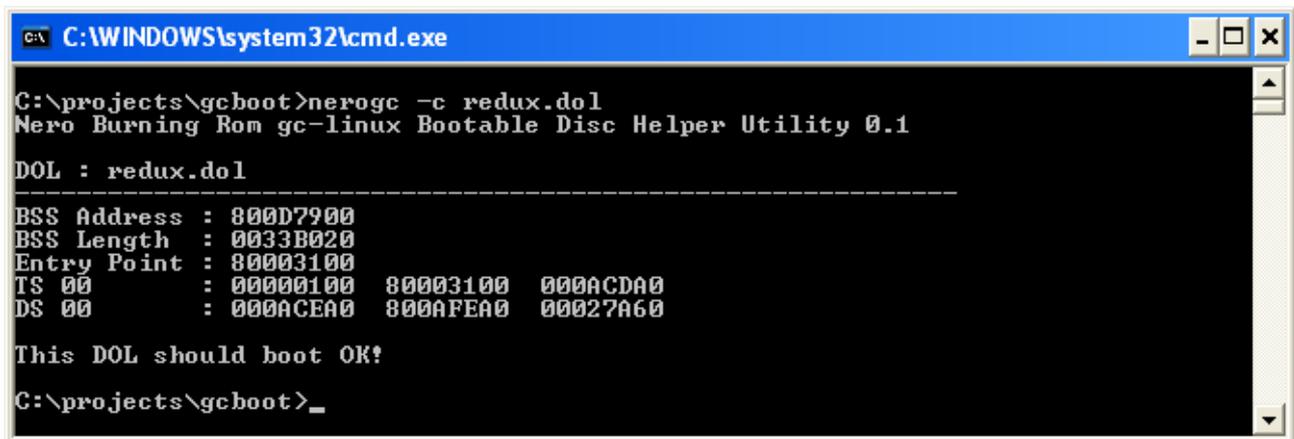
### *First Step*

Before creating a compilation, it's important that you know the DOL you are going to burn will actually boot!

There are many limitations imposed by the IPL, so it's best to be sure.

Open a command console ( Start->Run->cmd.exe ) and check your DOL with the NeroGC utility.

An example, using the NEO-CD REDUX emulator, checking the redux.dol file.



```
C:\WINDOWS\system32\cmd.exe
C:\projects\gcboot>nerogc -c redux.dol
Nero Burning Rom gc-linux Bootable Disc Helper Utility 0.1
DOL : redux.dol
-----
BSS Address : 800D7900
BSS Length  : 0033B020
Entry Point : 80003100
TS 00       : 00000100  80003100  000ACDA0
DS 00       : 000ACEA0  800AFEA0  00027A60
This DOL should boot OK!
C:\projects\gcboot>_
```

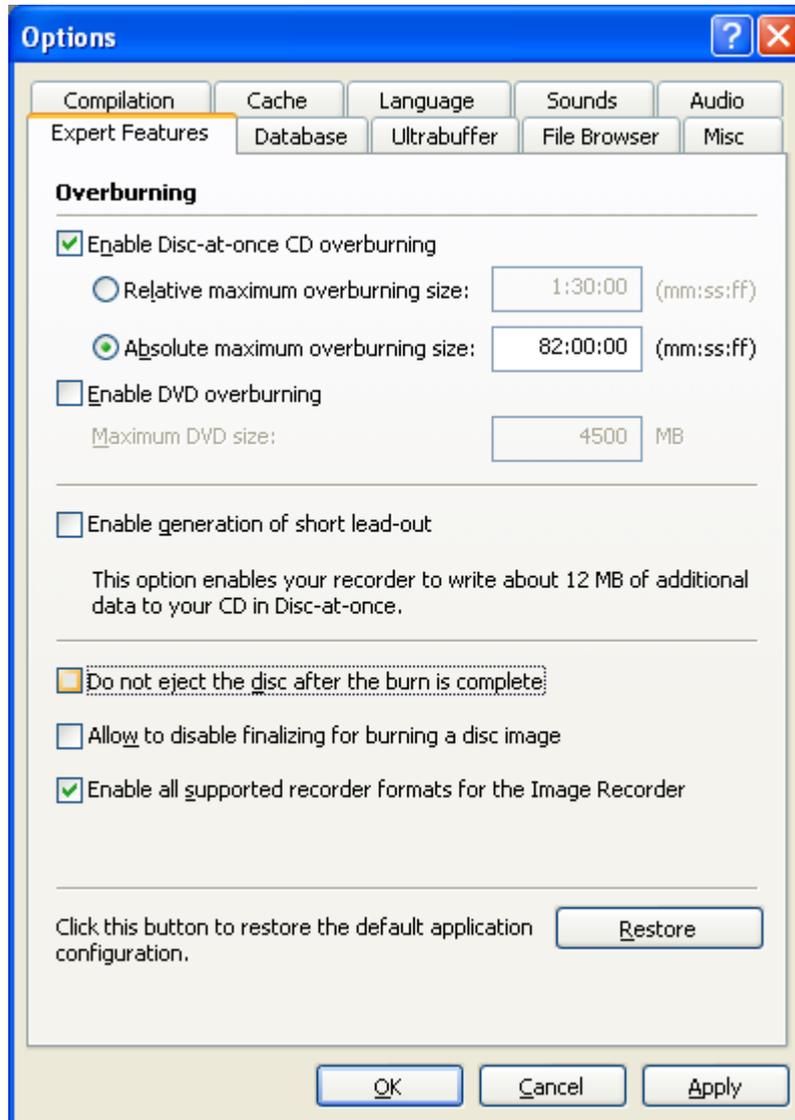
As you can see, the syntax is simply `nerogc -c redux.dol`

If the DOL does not pass the IPL booting tests, you should **not** make a bootable disc with it. It'll most likely be a coaster.

## Second Step

Nero Burning ROM can create ISO images, provided it's been configured to do so.

Run Nero and do, File->Options and click on the Expert Features tab. Make sure that 'Enable all supported recorder formats for the Image Recorder' is checked.

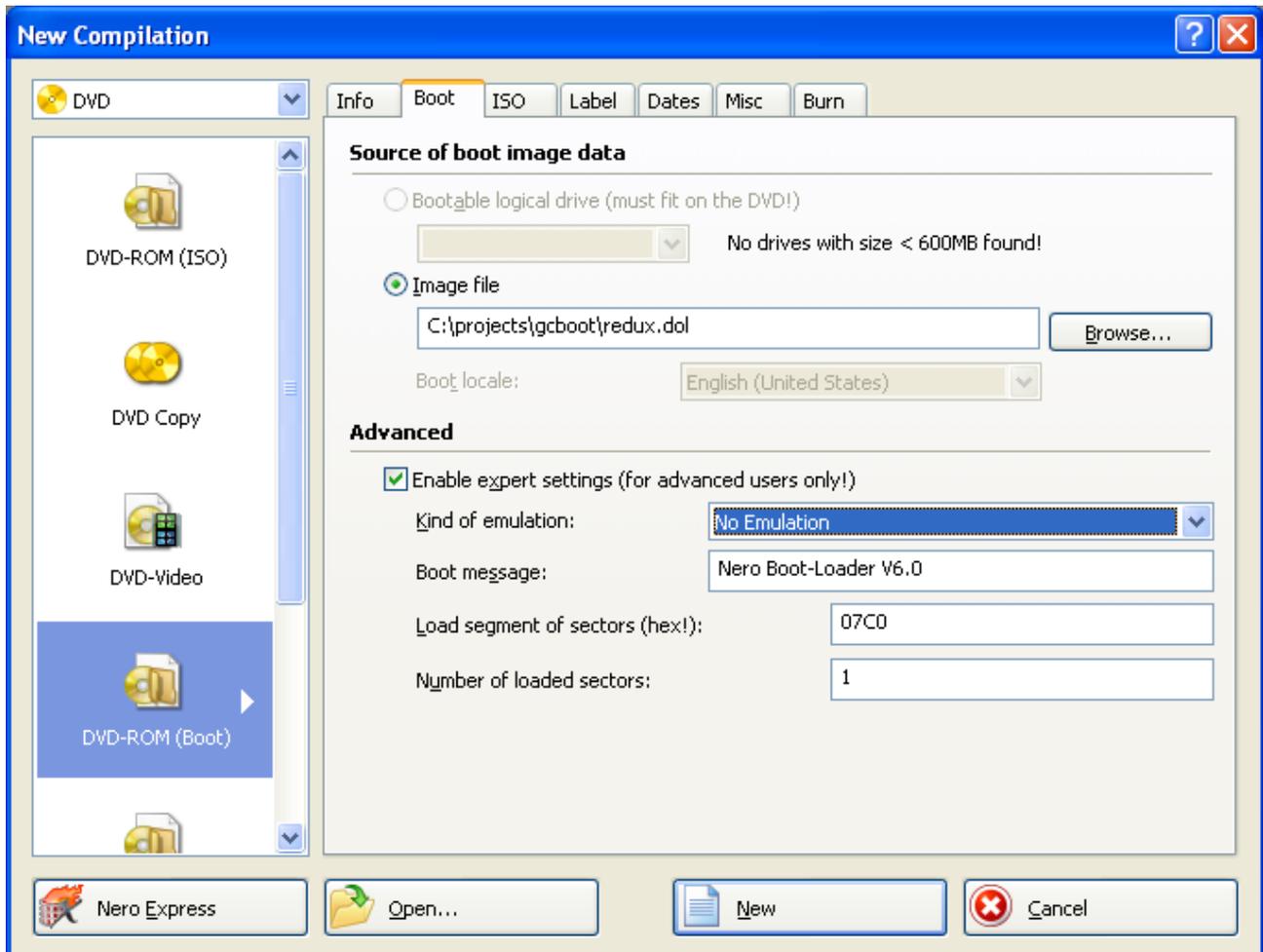


Press OK and dismiss the dialog.

### Third Step

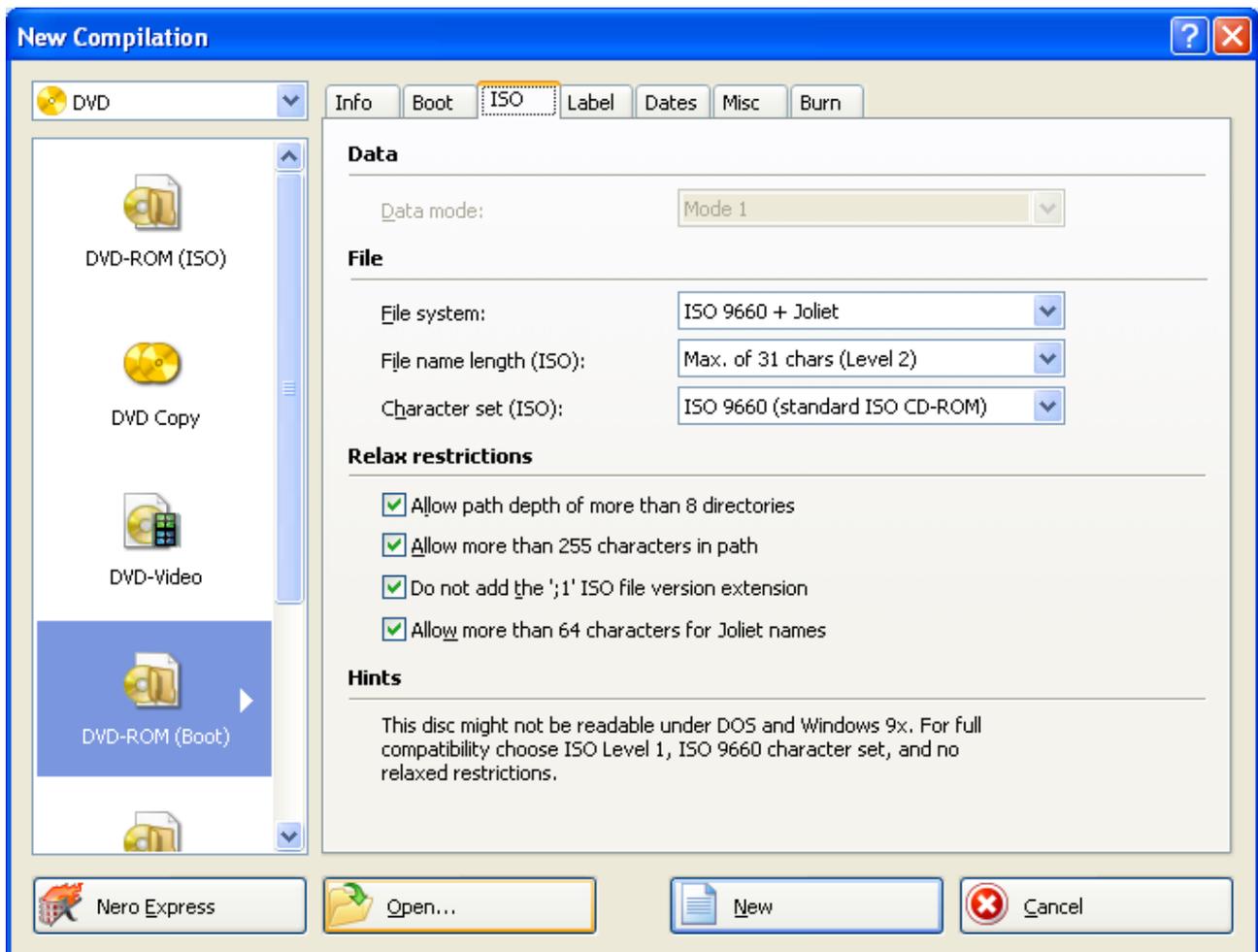
Now to create a bootable DVD compilation. This is the part that trips most people up.

In Nero, do File->New, or click the 'New' icon. The New Compilation wizard will pop up. Select DVD-Rom (Boot)



Go to the 'Boot' tab, check 'Enable expert settings' and make sure the 'Kind of Emulation' is set to No Emulation, as above.

In the 'Image file' entry, select the DOL you previously checked with NeroGC in step one.



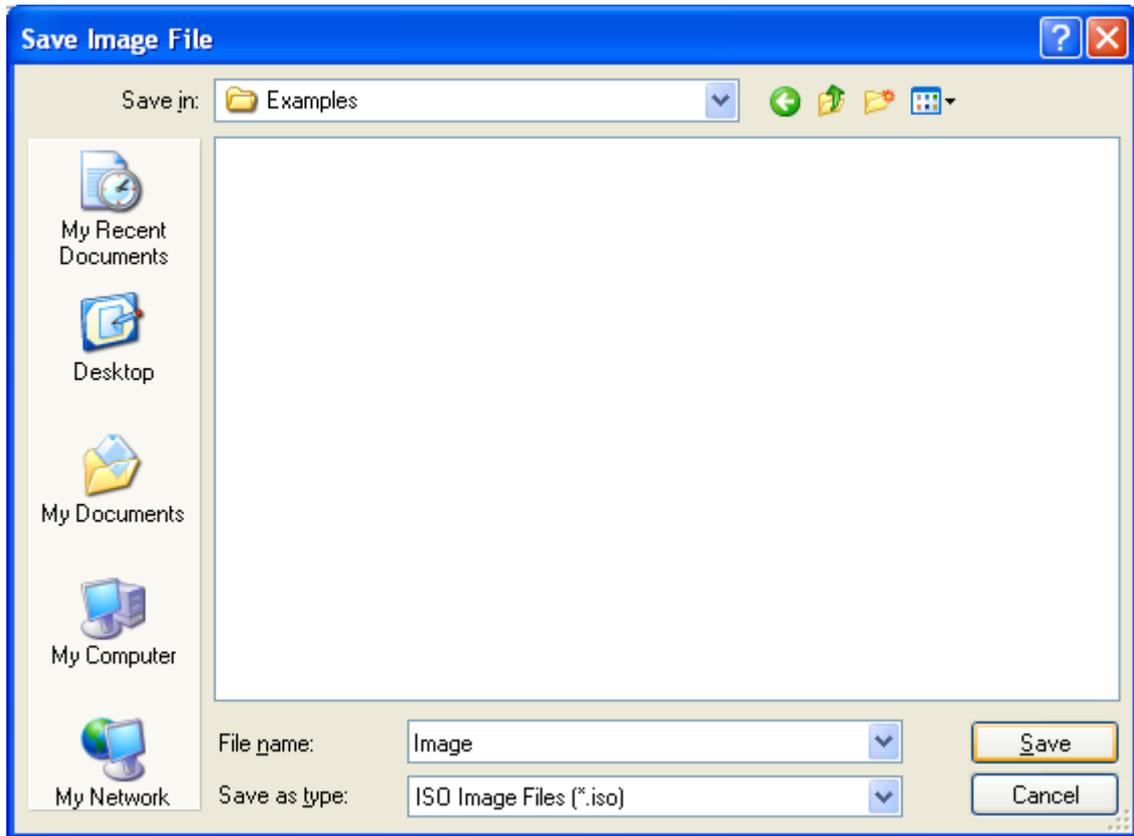
Now move on to the ISO tab. The important thing here is that you don't go above Level 2.

Create your DVD of whatever it is you need, as you would normally do. You don't need to add padding files, as the NeroGC helper will do any required padding in step five.

## Fourth Step

After you've selected the files you wish to place on the DVD, make sure you have selected the Image Recorder as your output device.

Now click the Burn icon. After a few seconds a dialog will appear asking where to save the image to. **This is important.** By default Nero will always try to write the image as an NRG file. **You must select ISO file from the File Chooser dialog.**

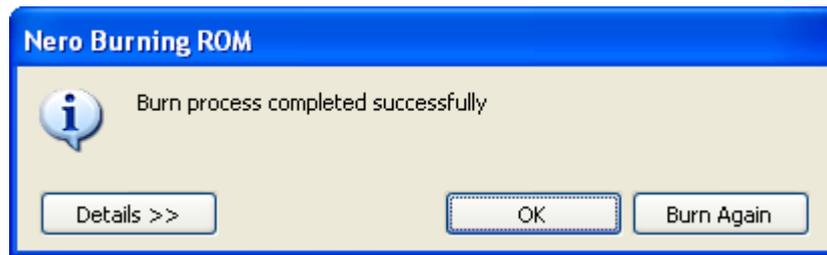


**NB: The selection to write standard ISO is totally controlled by the 'Save as type' in this File Chooser.**

It's worth mentioning that you should use simple names for your images - you're going to have to type them later in the console :)

For now, leave Nero churning away creating your ISO image.

## Fifth Step



When offered the completion dialog, press OK.

You now have a standard ISO image, with El Torito boot enabled. This step does the job of converting a Nero ISO to a gc-linux bootable disc.

Open a console, and type `nerogc -f image.iso`. Obviously, substitute the name you gave the ISO file in step four.

Here's some example output

```
C:\WINDOWS\system32\cmd.exe
C:\Temp\xeno>nerogc -f Image.iso
Nero Burning Rom gc-linux Bootable Disc Helper Utility 0.1

Boot Record Information
CD ID       : CD001
System ID  : EL TORITO SPECIFICATION
Version    : 1
Catalog at : 0xA000

Boot Catalog Information
Header ID   : 1
Platform ID: Intel 80x86
Maker      : NERO BURNING ROM
Checksum   : 0xFC8A
Key        : 0x55AA
Bootable   : Yes
Boot media : No Emulation
Sectors    : 0x06A8
Segment    : 0x07C0
RBA        : 0x00000092
DOL Size   : 0x000D4900 [000D5000]
DOL Sectors: 0x000006A8

Updating ISO for Nintendo GameCube.
GC Bootable image created successfully.

GBI Header Image is copyright Albert Herranz and the gc-linux team.
http://www.gc-linux.org
Padding with 159842304 bytes ...Done.

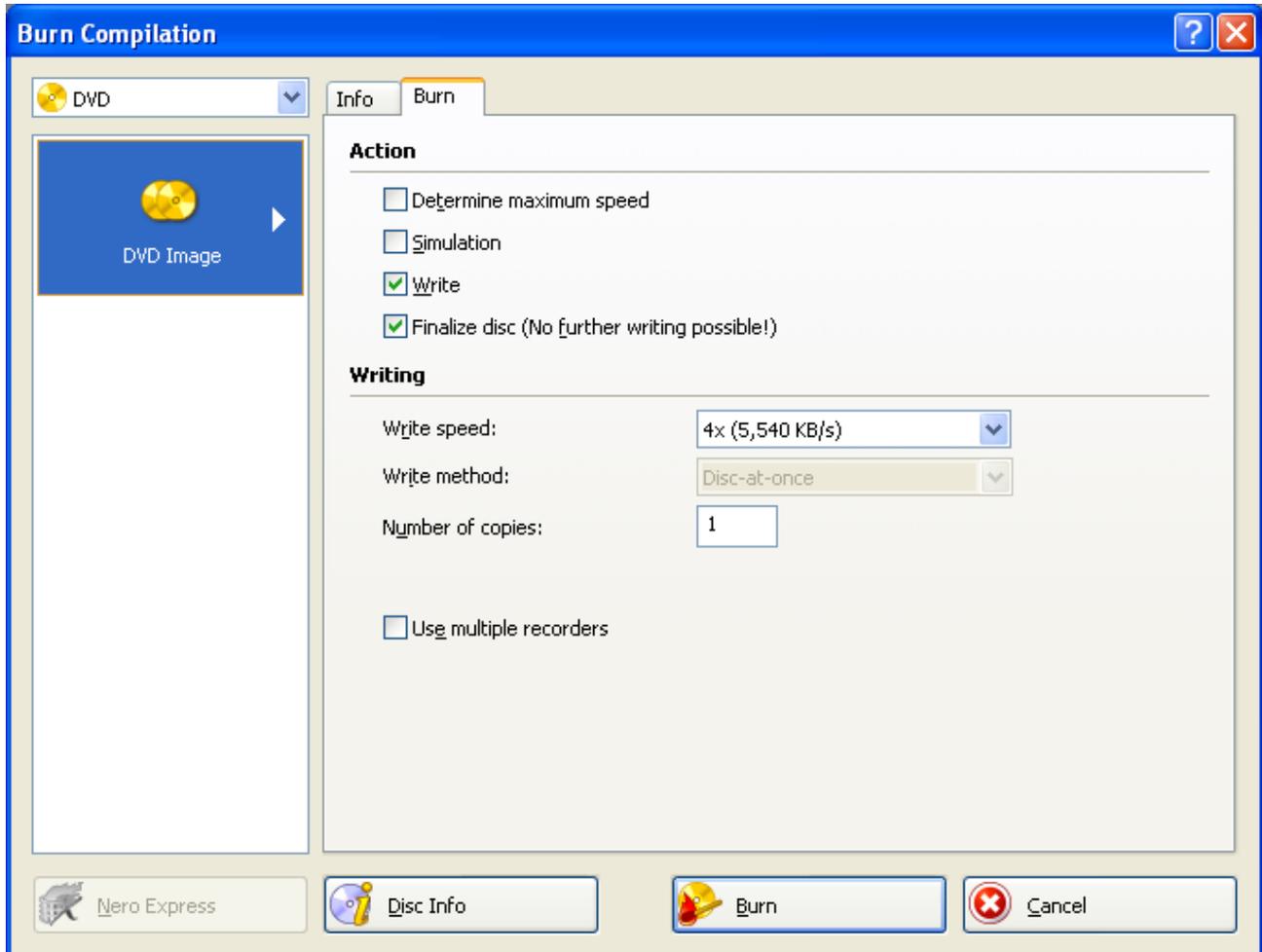
C:\Temp\xeno>
```

It shows some basic information about the image it's working with, and pads to 1.35Gb.

## ***Sixth and final step***

After all of this, it's time to burn the image. Select your normal DVD writer from the Recorder->Choose Recorder. From the Recorder menu again, select Burn Image.

Choose the image file you created in step four, check on Finalize disc, and burn.



## ***Information***

The gc-linux header file 'gbi.hdr' is copyright Albert 'isobel' Herranz. The version used in making this guide was cubetools-0.3

Nero Burning ROM version was 7.5.7.0

NeroGC Helper utility is version 1.0

***Guide created by softdev - March 2007***

MD5 : 51f07c2b320b19616415bb1e386d9ef3 \*nerogc.exe