

# MAGNETO

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## 1) Introduction:

Magneto is a 32bit Operating System which is build in C++. Till now it just boots up from the Floppy Disk and displays a welcome message. It uses default GDT set up by Grub. Some things that I have already finished:

- Interrupts (Done)
- Console Driver (Text mode) (Done)
- Delay Loop Calibration (Done)
- CMOS (Done)
- PC Speaker (Done)
- OStream (Done)
- Keyboard Driver (Partial)
- FDC Driver (Partial)
- Timer (Partial)

In future I'll introduce more features to it. I don't know, may be its too early to say but I'll surely develop it to a full OS.

## 2) Version History (What's New):

Magneto ver 0.1 beta

- Changed the name finally to Magneto.
- Its now 32bit OS.
- Support for Interrupts is introduced.
- PC Speaker now works with it.
- Some partially completed drivers are introduced.

koolOS 2.1

- Source code of koolOS is now more structured.
- Date and time function introduced.
- Memory function introduced.
- Can customize look of koolOS by editing config.h file.

koolOS 2.0

- I have changed the name of my OS. It is now called koolOS.
- koolOS now have a new logo.
- Now the koolOS uses C++ Pointers for displaying output to the screen. I have used C++ Pointers for both text mode and graphics mode.
- koolOS now supports colors in text mode also.
- Removed graphical Shutdown display screen as I wasn't able to print text in graphics mode.
- Removed bugs from the code. Major bugs were in printf and scanf functions.

nOS 1.1

- I have used my own functions for nOS 1.1.
- Now it displays your name all the time on screen.
- It also displays a welcome and goodbye screen when you start or shut nOS.
- Kernel code is now written using classes.

nOS 1.0

- nOS is born.
- First version of nOS released.
- I edited the code of groovyOS and made nOS from it.

### 3) Requirements:

Beta version directly from a floppy image. You won't need a floppy disk. I haven't tested it on a real PC till now!

You will also need **DJGPP** and **nasm** for compilation. For testing purposes you can use **Bochs**.

Links to above compiler and assembler can be found on website.

Well I am not a geek yet so I don't know what amount of memory you need. Maybe 4 MB would be enough. But, You surely need a minimum of 80386 processor.

#### 4) Installation:

Magneto gets installed on a floppy image directly. Just run compile.bat file to compile and install it on image. Then run boschsrc.bxrc file to run it under **Bochs**.

## **5) Reporting bugs**

You can also contribute to the development of Magneto by reporting any bugs you may find or you can also send in suggestion or comments to me.

## **6) Contact Information**

You can contact me at:

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