

# The Ultimate **A**pp**l**e Rhapsody OS In-a-Bochs Guide (v. 1.0)

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## INTRODUCTION

Howdy everyone! Welcome to the world of Rhapsody OS, where confusion and mayhem are bound to happen... if you were not smart enough to download this handsomely put together guide by yours truly. But, before we begin our adventure into the uncharted territory of this genuine **DuhGuide**, we must understand a few things. Firstly, remember that, even though Rhapsody OS has apparently disappeared of the face of this Earth, Rhapsody is NOT abandon-ware in the eyes of Apple Computer, Inc. You must own the original media if you wish to proceed in a legal fashion. If you don't, you may want to find Rhapsody at eBay or a similar service of your choice. Otherwise, you may be in violation of copyright laws. Secondly, I cannot take responsibility for any consequential damages that may arise out of the use of Bochs, Rhapsody OS, or any other apps stated herein. So don't even think of trying to sue me if your precious, Intel-powered bratwurst decides to take a trip down to Dante's Inferno and become one with the dumpster. I have tested all of the software on various machines with no problems at all, so you should at least take my word for it. Last but not least, have fun! Don't be afraid to leave a post on the InsanelyMac forums in the Beta section if you are stumped at all. Happy hacking!

-The Rhapsody Guru

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# Getting Started

What you will need...

- \*Any host OS that supports Bochs %100.
- \*Bochs IA-32 processor emulator.
- \*The Rhapsody OS x86 disc and install floppies.
- \*Patience. You're going to need a lot of it!

*NOTE: I am assuming that you are using Microsoft Windows as your host OS. If you plan on using a different host OS, such as MacOS or BSD, consider referring to the Bochs documentation contained on their site to obtain Bochs installation instructions for your particular OS. Once Bochs is up and running on your system, the directions afterward on this guide are rather universal, with the exception of a few changes that I will point out from time to time.*

1. Start out by downloading the appropriate build of Bochs for your system at <http://bochs.sourceforge.net>. The current version as of this writing is v2.3.pre3.
2. Next, install it by running the executable. It will create a program group when it is finished.
3. Create images of your Rhapsody CD and install floppies. Store them in the Bochs directory.
4. Download the Rhapsody.bxrc file that I compiled by going to the following web address: <http://www.orbitfiles.com/download/id710353549>  
Afterwards, store the file in your Bochs directory.

## Preparing your Virtual Hard-disk

1. Go into the Bochs directory and run the bximage tool. (For other host OSes, I believe it is the same tool)
2. When the tool asks if you want a floppy or hard drive, just press ENTER.
3. When asked what kind of image you want, type "growing" and press ENTER.
4. Specify the amount of megabytes you want the image to be (at least 500MB) and press ENTER.

*NOTE: If you are a novice, just make the size 2048MB so that you don't have to edit the hard-disk portion of the Bochs configuration file. If you do this, you may skip step 2 in the "Modifying the Bochs configuration file" section of this guide. You really don't need much space for Rhapsody anyway.*

5. At the next prompt, type the name of your hard-disk image (preferably Rhapsody.img) and press ENTER.
6. The tool will send the virtual hard-disk parameters to your clipboard. Press enter to close the tool.

*IMPORTANT: Before you continue onto the next section, be sure that your Rhapsody CD-ROM iso is named "rhapsody\_dr2\_x86.iso" and the install floppy images for disk one and two are named "InstallationDisk.fs" and "DeviceDriversDisk.fs", respectively.*

# Modifying the Bochs configuration file

1. Right-click the rhapsody.bxrc file and click edit.
2. Scroll down until you see the following text:

```
ata0-master: type=disk, path="rhapsody.img", mode=growing, cylinders=4161, heads=16, spt=63
#ata0-master: type=disk, mode=flat, path="c.img", cylinders=0 # autodetect
#ata0-slave: type=cdrom, path=D:, status=inserted
#ata0-slave: type=cdrom, path=/dev/cdrom, status=inserted
ata0-slave: type=cdrom, path="rhapsody_dr2_x86.iso", status=inserted
#ata0-slave: type=cdrom, path=/dev/rcd0d, status=inserted
```

Replace the first line with the one from the clipboard by selecting the line with the mouse and pressing Ctrl+V to paste. In other host OSes, use the appropriate keystroke combination to paste the line.

3. Scroll up until you see the following text:

```
#=====
# BOOT:
# This defines the boot sequence. Now you can specify up to 3 boot drives.
# You can either boot from 'floppy', 'disk' or 'cdrom'
# legacy 'a' and 'c' are also supported
# Examples:
# boot: floppy
# boot: disk
# boot: cdrom
# boot: c
# boot: a
# boot: cdrom, floppy, disk
#=====
boot: c
```

Modify the boot drive letter. Type "a" after "boot:".

*Note: If you are using a Host OS other than Microsoft Windows, refer to your Bochs documentation for info on platform specific details, particularly in DISPLAY\_LIBRARY options.*

## Installing the Rhapsody OS in Bochs

1. First off, create a Desktop shortcut to your Rhapsody.bxrc file for easy access.
2. Launch the file. You will be greeted with the Rhapsody boot prompt. Just press ENTER.
3. Select your language, then press ENTER.
4. Continue with install.
5. When it prompts you for the drivers disk, click on the floppy button in the Bochs client area. Once the window pops up, click the Browse button. Make sure you view ALL file types, then select the DeviceDriversDisk.fs file from the Bochs main directory. After you click ok, make sure the detected disk type in the pull down menu is 1.44MB, then click OK.
6. Press ENTER to continue the installation.
7. Select option "7" three times, then select "1".
8. Press "1" to continue with setup.
9. Wait for Mach to start up, then follow the prompts to finish installation. It should be easy from here on.
10. Press ENTER to reboot when prompted. After the reboot, you will experience a PANIC error. Just click OK to kill the simulation.

11. Right-click on the Rhapsody shortcut you made earlier, click edit, and make sure the letter "c" is after "boot:" in the file. Remember where it is?

12. Save the configuration and launch the file again.

13. The second stage of the Rhapsody install will now commence. Press the F12 key to toggle the host/guest mouse switch. Now your mouse will be trapped inside Bochs ready to be used by Rhapsody setup. To regain control of the mouse for the host OS later on, just press F12 again.

14. Configure ONLY the display, since the network adapter and sound card do not seem to work properly.

15. Click the monitor icon and select the Cirrus GD 5446 with 2MB VRAM from the list.

16. Click the "Done" button after you make the necessary adjustments to the video. These changes will take effect after reboot of Rhapsody install.

17. Review your changes and click "Done" to confirm.

18. In the next window, select what components you wish to install, then proceed.

19. After the files install, you will once again reboot only to be greeted by an annoying wizard. This is where patience comes in GREAT handy. Remember... this is the last stage of the process.

20. Answer the questions. Carefully type since the keyboard is weird in Bochs. Reboot when prompted.

## Finis

CONGRATULATIONS! You have successfully installed Rhapsody OS on Bochs! Just be sure to check out the oodles of demonstrations and tools on this historical OS. If you have any questions regarding Rhapsody or Bochs, you may want to drop me a line. I am on the InsanelyMac forum and my screen name is no other than RHAPSODY GURU! If you have any comments or quibbles about this guide, feel free to post them on the forum. I will attempt to address any problems as soon as possible. Thank you so much for your interest in Beta software!!