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MorphOS – Installing the SDK – Hello World!

By

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Introduction

This guide will go through the steps required to set-up a C/C++ development environment on MorphOS and compile the simple "Hello World!" code example. This guide will require a computer running MorphOS with an internet connection. The software requirements are freely available for download, including a time limited version of MorphOS.

New to MorphOS? (As I am), check out the [wiki](#) and [Morph Zone](#)

Required hardware components check-list

- **MorphOS computer!**
 - Monitor!
 - Keyboard and mouse!
 - Internet connection!

Required software components check-list

- MorphOS (full version, or time limited)
 - <http://www.morphos.de/>
 - MorphOS 3.9 (version used in this guide)
- MorphOS Software Development Kit
 - <http://www.morphos.de/downloads>
 - sdk-20150619.lha (version used in this guide)

Websites used in this guide

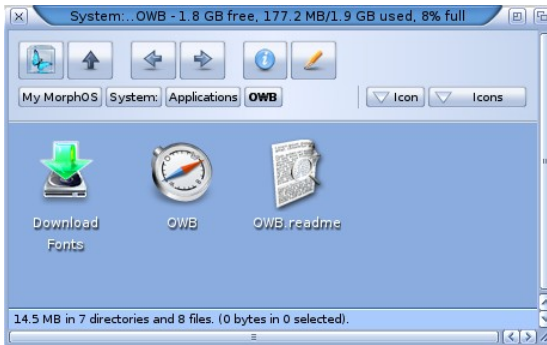
- http://library.morph.zone/First_steps_in_MorphOS_programming
- <http://krashan.ppa.pl/mph/>
 - I have used these guides to create this quick set-up guide
 - Once you have your "Hello World!" code compiling, have a look at these sites for some great info



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Install the SDK (Software Development Kit)

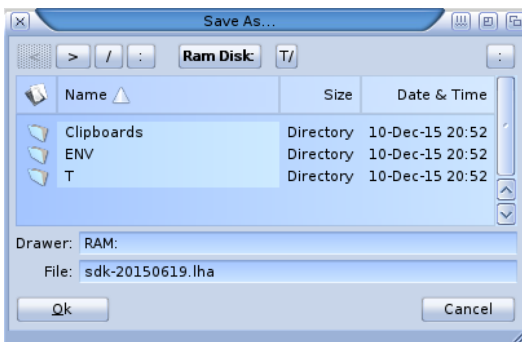
1. Boot-up MorphOS
2. Run the web browser (OWB)
 - Desktop --> System --> Applications --> OWB --> OWB



3. Go to <http://www.morphos.de/downloads>
 - Scroll down the page and download the SDK



- sdk-20150619.lha (34.4 MB) (version used in this guide)
- Save to "RAM:" (or somewhere on your hard disk, just make a note of the location!)



- Retry if the download fails the first time



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4. Extract the SDK archive
 - Open up the "Ram Disk"
 - Right click on the SDK archive and select "Extract"
 - sdk-20150619.lha (version used in this example)
 - Check that the extraction was successful, if it failed, download again
5. Run the installer
 - In the "Ram Disk" folder, open the "morphossdk" folder
 - Run the "Installer" program



- Install to the default path "SYS:Development"
- Quit the installer once it has finished
- Reboot the computer



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Compile some code and run it

1. Load the text editor
 - Desktop --> System --> Utilities --> Editor
2. Type in or paste the following code:-

```
#include <stdio.h>

int main(void)
{
    printf("Hello World!\n");
    return 0;
}
```

3. Save the file as "helloworld.c"
 - Save to "RAM:" (or somewhere on your hard disk, just make a note of the location!)
4. Open a shell window
 - Ambient menu --> New Shell
5. By default, the location in the shell window will be the Ram Disk
 - Type "dir", this will list all the files in the Ram Disk
 - "helloworld.c" should be there

```
Ambient Shell
Page 1 | Add page | New window | Detach... | Close page | Close window
Ram Disk:> dir
ENV (dir)
T (dir)
Clipboards (dir)
helloworld.c
Ram Disk:> |
```



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6. Type "gcc -o helloworld helloworld.c"

```
Ambient Shell
Page 1 Add page New window Detach... Close page Close window
Ram Disk: > gcc -o helloworld helloworld.c
Ram Disk: >
```

◦ Type "dir", this will list all the files in the Ram Disk

```
Ambient Shell
Page 1 Add page New window Detach... Close page Close window
Ram Disk: > dir
ENV (dir)
T (dir)
Clipboards (dir)
helloworld
helloworld.c
Ram Disk: >
```

◦ "helloworld.c" & "helloworld" should be there

7. Type "helloworld" and the compiled program will run

◦ "**Hello World!**" will be shown on the screen.

That's it, your first C/C++ program written and compiled on MorphOS

Don't forget any data you save in the Ram Disk will be lost when you reboot or power off the computer



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Further information

Also... Don't forget to read more info here:-

- http://library.morph.zone/First_steps_in_MorphOS_programming
- <http://krashan.ppa.pl/mph/>