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SDK Tutorial: Hello World

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Authors:

Open Kernel Labs

Contact Details:

Open Kernel Labs Pty Ltd
Attention: Open Kernel Labs

Suite 3, 540 Botany Road
Alexandria, NSW 2015
Australia

email: enquiries@ok-labs.com

web: <http://www.ok-labs.com/>

Aim

The aim of this tutorial is to get a single cell system that prints `Hello World` up and running.

Installing the Toolchain

Download the **armlinux-3.4.4.tar.gz** tarball from the Open Kernel Labs Website:

<http://wiki.ok-labs.com/>

Expand the tarball using the following command:

```
tar -xzf armlinux-3.4.4.tar.gz
```

Add the bin directory of the toolchain to your PATH.

Installing the SDK

Download the **sdk-xscale-3.0.tar.gz** tar ball from the Open Kernel Labs Website:

<http://wiki.ok-labs.com/>

Expand the tarball using the following command:

```
tar -xzf sdk-xscale-3.0.tar.gz
```

Let's Get Started

The first step is to copy the contents of the `singlecell` directory from the following location

```
sdk/okl4/xscale/examples/singlecell
```

in to the directory in which you wish to work.

To create an SDK environment variable which points to SDK root directory, type the following:

```
export OKL4_SDK_ROOT=path/to/sdk
```

Now change into the directory containing the copied example and type the following line to create a runnable image:

```
make
```

This will create an image, `image.sim`, in the following directory:

```
build.micro-debug/images/image.sim
```

Hello World!

To simulate the image that you have created using the *skyeye* simulator, type the following line:

```
skyeye -c skyeye.conf -e build.micro-debug/images/image.sim
```

Congratulations! You have just got your first cell to run on OKL4!