

EMAC OE SDK Configuration

The following configurations are necessary to begin using the EMAC OE SDK.

Before cross-compiling source code on the development machine for the target machine:

- A [set up script](#) linking `global.properties` to an architecture-specific `global.properties` file must be run.
- The `TARGET_IP` variable in the [global.properties](#) file must be changed to the IP address or hostname belonging to the target board.



These configurations assume that the [EMAC OE SDK](#) is installed.

Table 1. Conventions Used

<code>/download/directory/</code>	Placeholder indicating the directory to which the SDK archive will be downloaded.
<code>/path/to/sdk/</code>	Placeholder indicating the directory to which the contents of the archive will be extracted.
<code>EMAC-OE-arm-linux-gnueabi-SDK_XX.YY.rZZ.tar.bz2</code> <code>EMAC-OE-arm-linux-gnueabi-SDK_XX.YY/</code>	XX is the major version. YY is the minor version. ZZ is the current revision. The major and minor version numbers will match the version of OE for which the SDK was created. The current version is 4.0.

SDK Set Up Script

Before compiling source code for the target machine, toolchain libraries for the target machine must be specified by `setmachine.sh`.

Procedure

1. Navigate to the SDK directory.

```
$ cd /path/to/sdk/EMAC-OE-arm-linux-gnueabi-SDK_XX.YY/
```

2. Run the script using the command shown below to produce a menu as shown in Figure 1 with options for the target machine for which the source will be

compiled.

```
$ ./setmachine.sh
```

Remote Upload Set Up

In the `global.properties` file there is a variable, `IP` which must be set to the target board IP address as shown in Listing 1 below. This step is necessary to ensure that the Make target, 'upload' will work as expected.

Procedure

1. Navigate to the projects directory within the SDK.

```
$ cd /path/to/sdk/EMAC-OE-arm-linux-gnueabi-SDK_XX.YY/projects
```

2. The `global.properties` file should be listed in the current directory. The relevant lines from `global.properties` are shown in Listing 1 below.

Listing 1. global.properties snippet

```
TARGET_IP=  
LOGIN=root  
PASSWORD=emac_inc
```

3. Change the value of `TARGET_IP` to the target system's IP address.

1. This can be found using the following command from a shell on the target system:

```
$ ifconfig eth0
```

4. Change the value of `PASSWORD` to whatever value was set in the [System Login section](#) of the EMAC OE getting started guide. Listing 1 shows the default user name and password.

See Also

- [EMAC Software Development Kit](#)
 - [Install EMAC OE SDK](#)
 - [Configure EMAC OE SDK](#)
 - [Example Projects](#)
 - [New Project](#)
 - [Debugging With gdbserver](#)