

# EMAC ARM

This page contains documentation for EMAC ARM products.

## Required Software

This guide assumes the following software is included on your development system:

- Subversion v1.6 or later

## Build the EMAC Linux Kernel

### SOM-9G45 Linux 2.6.30-at91

#### Setup

1. Checkout from EMAC's public SVN repository:

```
svn co https://svn.emacinc.com/public/linux-2.6.30-at91/trunk/ linux-2.6.30-at91
```

2. Download our EMAC-OE SDK:

[ftp://ftp.emacinc.com/Controllers/Development\\_Kits/EMAC\\_Open\\_Tools/Linux/EMAC-OE-arm-linux-gnueabi-SDK\\_4.0.r3.tar.bz2](ftp://ftp.emacinc.com/Controllers/Development_Kits/EMAC_Open_Tools/Linux/EMAC-OE-arm-linux-gnueabi-SDK_4.0.r3.tar.bz2)

3. Unpack the SDK:

```
tar -xjf <downloaded_file>
```

4. Download our kernel cross build script archive:

[ftp://ftp.emacinc.com/Controllers/Development\\_Kits/EMAC\\_Open\\_Tools/Linux/kernel-build-cross\\_svn-r1897.tar.gz](ftp://ftp.emacinc.com/Controllers/Development_Kits/EMAC_Open_Tools/Linux/kernel-build-cross_svn-r1897.tar.gz)

5. Unpack the kernel cross build script:

```
tar -zxf <downloaded_file>
```

6. Edit the `environment.cfg.sh` file to indicate the location of your SDK similar to the commented-out reference.

#### Build

1. First, configure it

1. Run the following command:

```
./kernel-build-cross.sh linux-2.6.30-at91 config som9g45
```

2. You will copy the configuration to the build directory manually, so press ESC twice to exit this screen.
  3. When prompted to save changes, select **yes**.
  4. Change to the linux source directory

```
cp build-2.6.30-som9g45/source/arch/arm/configs/som9g45-som210_defconfig build-2.6.30-som9g45/.config
```

2. Then build it:

```
./kernel-build-cross.sh linux-2.6.30-at91 build som9g45
```



Note that the build output files actually end up in the build-2.6.30-som9g45/ directory

## ***Load***

See the Loading Images with UBoot customer wiki page.