

Intel Galileo - Support #598

Install Intel Galileo Stock Linux Image With Arch

04/17/2015 01:26 PM - Daniel Curtis

Status:	Closed	Start date:	04/17/2015
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	Installation	Estimated time:	3.00 hours
Target version:	Arch Linux	Spent time:	2.50 hours

Description

This is a guide for installing the stock pre-compiled Yocto Linux image provided by Intel

Prepare the MicroSD Card

- Install dosfstools:

```
sudo pacman -S dosfstools
```

- To start, find the device path for the microsd card. insert the microsd card into the workstation, open a terminal and run:

```
dmesg
```

- *Example output*

```
[13103.012976] mmc0: new SD card at address 8ccd  
[13103.052022] Driver 'mmcblk' needs updating - please use bus_type methods  
[13103.057749] mmcblk0: mmc0:8ccd YV04F 1.89 GiB
```

- **NOTE:** This example will use /dev/mmcblk0 for the microsd device path.

- (Optional) Zero the MicroSD card:

```
sudo dd if=/dev/zero of=/dev/mmcblk0
```

- Now create a partition for the MicroSD card:

```
sudo fdisk /dev/mmcblk0  
o  
n  
p  
1  
[Enter]  
[Enter]  
t  
b  
a  
w
```

- Next format the micro SD card to fat32:

```
sudo mkfs.msdos /dev/mmcblk0p1
```

- Next, download and extract the LINUX_IMAGE_FOR_SD_Intel_Galileo_v1.0.4.zip file:

```
mkdir ~/galileo-img && cd ~/galileo-img
wget http://downloadmirror.intel.com/24355/eng/SDCard.1.0.4.tar.bz2
tar xjf SDCard.1.0.4.tar.bz2
```

- Mount the micro SD card and copy the extracted stock Linux files over to the micro SD card:

```
sudo mkdir /mnt/sdcard
sudo mount /dev/mmcblk0p1 /mnt/sdcard
sudo cp -r ~/galileo-img/image-full-galileo/* /mnt/sdcard/
sudo sync
```

- Unmount the MicroSD card:

```
sudo umount /mnt/sdcard
```

At this point the stock Yocto Linux provided by Intel is installed and ready for use; complete with persistent sketches and wireless support.

Resources

- <http://www.intel.com/support/galileo/sb/CS-035101.htm>

History

#1 - 04/17/2015 02:07 PM - Daniel Curtis

- Project changed from GNU/Linux Administration to Intel Galileo
- Description updated
- Category set to Installation
- Status changed from New to In Progress
- Target version set to Arch Linux
- % Done changed from 0 to 50

#2 - 04/17/2015 03:04 PM - Daniel Curtis

- Description updated

#3 - 04/17/2015 03:14 PM - Daniel Curtis

- Description updated

#4 - 04/17/2015 03:33 PM - Daniel Curtis

- Description updated
- Status changed from In Progress to Resolved
- % Done changed from 50 to 100

#5 - 04/17/2015 03:34 PM - Daniel Curtis

- Description updated

#6 - 05/10/2015 09:18 AM - Daniel Curtis

- Status changed from Resolved to Closed