ARM Allwinner SoCs

This document lists all the ARM Allwinner SoCs that are currently supported in mainline by the Linux kernel. This document will also provide links to documentation and/or datasheet for these SoCs.

SunXi family

Linux kernel mach directory: arch/arm/mach-sunxi

Flavors:

- ARM926 based SoCs Allwinner F20 (sun3i)
 - Not Supported
- ARM Cortex-A8 based SoCs Allwinner A10 (sun4i)
 - Datasheet

 $http:\!\!/dl.linux-sunxi.org/A10/A10\%20Datasheet\%20-\%20v1.21\%20\%282012-04-06\%29.pdf$

User Manual

http://dl.linux-sunxi.org/A10/A10%20User%20Manual%20-%20v1.20%20%282012-04-09%2c%20DECRYPTED%29.pdf

- Allwinner A10s (sun5i)
 - Datasheet

http://dl.linux-sunxi.org/A10s/A10s%20Datasheet%20-%20v1.20%20%282012-03-27%29.pdf

- Allwinner A13 / R8 (sun5i)
 - Datasheet

 $\label{limix-sunxi} $$ \http://dl.limix-sunxi.org/A13/A13\%20Datasheet\%20-\%20v1.12\%20\%282012-03-29\%29.pdf$

User Manual

 $\label{limix-sunxi} $$ $ \frac{A13}{A13} \ 20User\% 20Manual\% 20-\% 20v1.2\% 20\% 282013-01-08\% 29.pdf $$$

- Next Thing Co GR8 (sun5i)
- Single ARM Cortex-A7 based SoCs Allwinner V3s (sun8i)
 - o Datasheet

http://linux-sunxi.org/File:Allwinner_V3s_Datasheet_V1.0.pdf

- Dual ARM Cortex-A7 based SoCs Allwinner A20 (sun7i)
 - o User Manual

http://dl.linux-sunxi.org/A20/A20%20User%20Manual%202013-03-22.pdf

- o Allwinner A23 (sun8i)
 - Datasheet

http://dl.linux-sunxi.org/A23/A23%20Datasheet%20V1.0%2020130830.pdf

User Manual

http://dl.linux-sunxi.org/A23/A23%20User%20Manual%20V1.0%2020130830.pdf

- Quad ARM Cortex-A7 based SoCs Allwinner A31 (sun6i)
 - Datasheet

http://dl.linux-

sunxi.org/A31/A3x release document/A31/IC/A31%20datasheet%20V1.3%2020131106.pdf

o User Manual

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http://dl.linux-sunxi.org/A31/A3x release document/A31/IC/A31%20user%20manual%20V1.1%2020130630.pdf
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- Allwinner A31s (sun6i)
 - Datasheet

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User Manual

http://dl.linux-sunxi.org/A31/A3x release document/A31s/IC/A31s%20User%20Manual%20%20V1.0%2020130322.pdf

- Allwinner A33 (sun8i)
 - Datasheet

http://dl.linux-sunxi.org/A33/A33%20Datasheet%20release%201.1.pdf

User Manual

http://dl.linux-sunxi.org/A33/A33%20user%20manual%20release%201.1.pdf

- Allwinner H2+ (sun8i)
 - No document available now, but is known to be working properly with H3 drivers and memory map.
- Allwinner H3 (sun8i)
 - Datasheet

https://linux-sunxi.org/images/4/4b/Allwinner_H3_Datasheet_V1.2.pdf

- o Allwinner R40 (sun8i)
 - Datasheet

https://github.com/tinalinux/docs/raw/r40-v1.y/R40 Datasheet V1.0.pdf

User Manual

https://github.com/tinalinux/docs/raw/r40-v1.y/Allwinner_R40_User_Manual_V1.0.pdf

- Quad ARM Cortex-A15, Quad ARM Cortex-A7 based SoCs Allwinner A80
 - Datasheet

http://dl.linux-sunxi.org/A80/A80 Datasheet Revision 1.0 0404.pdf

- Octa ARM Cortex-A7 based SoCs Allwinner A83T
 - Datasheet

https://github.com/allwinner-zh/documents/raw/master/A83T/A83T Datasheet v1.3 20150510.pdf

o User Manual

https://github.com/allwinner-zh/documents/raw/master/A83T/A83T User Manual v1.5.1 20150513.pdf

- Quad ARM Cortex-A53 based SoCs Allwinner A64
 - Datasheet

http://dl.linux-sunxi.org/A64/A64_Datasheet_V1.1.pdf

o User Manual

http://dl.linux-sunxi.org/A64/Allwinner%20A64%20User%20Manual%20v1.0.pdf

- Allwinner H6
 - Datasheet

https://linux-sunxi.org/images/5/5c/Allwinner H6 V200 Datasheet V1.1.pdf

 User Manual https://linux-sunxi.org/images/4/46/Allwinner H6 V200 User Manual V1.1.pdf

Allwinner H616

- Datasheet
 https://linux-sunxi.org/images/b/b9/H616_Datasheet_V1.0_cleaned.pdf
- User Manual https://linux-sunxi.org/images/2/24/H616_User_Manual_V1.0_cleaned.pdf