

Sistema operacional para o Terminal de Acesso da TV Digital

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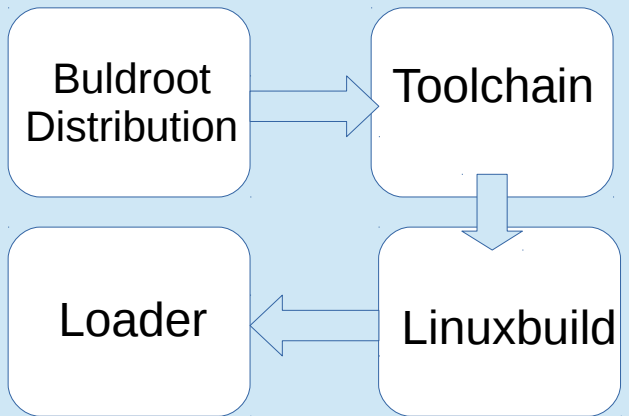
Introdução

O Terminal de Acesso para o Sistema Brasileiro de Televisão (SBTV) é um sistema embarcado complexo:

- Plataforma de SW:
 - Linux - uClinux
- Plataforma de HW: Sistema-em-Chip (SoC)
 - Dec. de áudio
 - Dec. de vídeo
 - Processador Leon 3 SPARC v8
 - Periféricos
 - Controle Remoto
 - Ethernet/Internet
 - USB

Este trabalho apresenta o porte do Linux para a plataforma de hardware e o desenvolvimento dos drivers.

Fluxo de Desenvolvimento



Requisitos

Desenvolvimento de Drivers:

- Configurações do Tuner TV digital;
- Configuração dos Decoders (A/V);
- Interface com o usuário.
- Integração com o sistema do Set-top-box;

Ambiente de Configuração

The screenshot shows a configuration window with two panes. The left pane shows a tree view of options under 'Step 1: package select/install/update' and 'Step 2: package configuration'. The right pane shows a list of target architectures including Oarm, Oarmeb, Oavr32, Obfin, Oi386, Omips, Omipsel, Opowerpc, Osuperh, Osuperh64, Osparc, Ox86_64, Oxtensa, and Target Architecture Variant with sub-options Ov7, Ocypress, Ov8, LEON SPARC needs gcc = 4.4.x, Ohfleon, and Ohfleonv8.

Boot do Sistema Operacional

```

3MB HIGHMEM available.
F stdout device is: /a::a
ROM: Built device tree with 16738 bytes of memory.
uilt 1 zonelists in Zone order, mobility grouping on. Total pages: 63588
ernel command line: console=ttyS0,38400 init=/sbin/init
ID hash table entries: 1824 (order: 0, 4896 bytes)
entry cache hash table entries: 32768 (order: 5, 131072 bytes)
Inode-cache hash table entries: 16384 (order: 4, 65536 bytes)
emory: 251824k/262120k available (2696k kernel code, 11896k reserved, 996k data
 1980k init, 65512k highmem)
ierarchical RCU implementation.
RCU-based detection of stalled CPUs is disabled.
Verbose stalled-CPUs detection is disabled.
onsole: colour dunny device 80x25
onsole [ttyS0] enabled
alibrating delay loop... 59.39 BogoMIPS (lpj=296960)
id_max: default: 32768 minimum: 301
ount-cache hash table entries: 512
ET: Registered protocol family 16
io: create slab <bio-0> at 0
qaarb: loaded
    
```