

The Asterisk configuration file, /etc/asterisk/chan_dahdi.conf is heavily commented but difficult to understand.

The Digium Asterisk Hardware Driver Interface (DAHDI) are the kernel drivers for various hardware cards as used in Asterisk. Besides the analog cards, there are also digital cards which accept one or more primary rate ISDN circuits as well. The PRI-ISDN cards are used for groups of digital trunks from a telephone company to your Asterisk server. Typically there are up to 23 trunks and one 64kb data channel per PRI-ISDN port.

In my implementation, I am just using an analog four port card.

This would be the basic configuration needed to use a TDM 400 analog PCI card with two FXS (analog phones) and two FXO (analog trunk) daughter boards.

They are configured as channels and you must install the dahdi kernel drivers first by running apt-get install dahdi. You want to install dahdi_tool as well as this provides a simple menu where you can monitor and do some basic testing.. You also have to install the kernel headers for your particular kernel as these are used to build the dahdi drivers.

You may also have to run m-a a-i dahdi to get it to download the final pieces needed.

Once dahdi is completely installed, you can run dahdi_genconf and it will detect the card and daughter boards.

As with any other type of phone, you need to point the hardware to the proper context in extensions.conf. Once that is done, you need to configure your analog devices in extensions.conf. For phones, it is this simple:

```
exten => 6101,1,Set(CALLERID(num)=6101)
exten => 6101,n,Dial(DAHDI/1,20,rt)
exten => 6101,n,Voicemail(6101,u)
exten => 6101,n,dial+101,Voicemail(6101,b)
```

For trunks, just point them to a context that is a s(start) context like incoming.

```
[incoming]
```

```
exten => s,1,Answer()
exten => s,2,Wait(2)
exten => s,3,Background(enter-ext-of-person)
exten => s,4,WaitExten()
```

This is my working chan_dahdi.config configuration:

```
[trunkgroups]
```

[channels]

usecallerid=yes
callwaiting=yes
usecallingpres=yes
callwaitingcallerid=yes
threewaycalling=yes
transfer=yes
canpark=yes
cancallforward=yes
callreturn=yes
echocancel=yes
echocancelwhenbridged=yes
immediate=no

group=1
callgroup=1
pickupgroup=1

signalling=fxo_ks
context=cohncom2
callerid = "Break Rm" <6101>
channel => 1

; Note: The following extension is a Private Line Automatic Ringdown
; That means when the phone goes off hook, it calls a predefined number.
; Often used for emergency phones in elevators or to call a specific cab company.
; Sometimes called a "Batphone" from the old Batman TV show.

signalling=fxo_ks
context=incoming2
immediate = yes ; implements PLAR or ring down line, AKA "batphone"
callerid = "Analog Phone" <6102>
channel => 2

signalling=fxs_ks
context=demo
channel => 3

signalling=fxs_ks
context=incoming
channel => 4

#include=dahdi_channels.conf