The Quick and Dirty Guide to Zaptel PPP

1. These instructions will work with Zaptel version 1.4.8 or later.
   You may obtain the latest version of Zaptel from www.asterisk.org.

2. Compile kernel with PPP (and PPP multilink support):

   Device Drivers
   Networking Support
   *PPP (point-to-point protocol) support
   *PPP multilink support
   *PPP filtering
   *PPP Deflate compression
   *PPP BSD-Compress compression

3. Install the ppp and ppp-dev package from your Linux distribution.

   This was tested using ppp 2.4.4rel-9 from Debian Lenny with the 2.6.22-3
   kernel.

4. Uncomment the following line in zconfig.h of the Zaptel package:

   cd /usr/src/zaptel
   vim zconfig.h
   #define CONFIG_ZAPATA_PPP

5. Build Zaptel:

   ./configure
   make
   make install

6. Build the Zaptel PPP module:

   cd ppp/
   make
   make install

7. Configure the spans and channels that you want in /etc/zaptel.conf on the
   local machine:

   span=1,0,0,esf,b8zs
   span=2,0,0,esf,b8zs
   clear = 1-24
   clear = 25-48

8. Configure the spans and channels that you want in /etc/zaptel.conf on the
   remote machine:

   span=1,1,0,esf,b8zs
   span=2,0,0,esf,b8zs
   clear = 1-24
   clear = 25-48

9. Load and configure your driver:

   modprobe wct4xxp
   ztcfg

10. Setup your PPP link on the local machine:

    Create /usr/local/bin/pppzaptel and input the following:

    #!/bin/sh
    ARGS="-detach noauth debug 192.168.0.1:192.168.0.2 mp lcp-echo-interval 1
    lcp-echo-failure 5 persist holdoff 1 defaultroute plugin zaptel.so"
    /usr/sbin/pppd $ARGS $1

11. Setup your PPP link on the remote machine:

    Create /usr/local/bin/pppzaptel and input the following:

    #!bin/sh
    ARGS="-detach noauth debug 192.168.0.2:192.168.0.1 mp lcp-echo-interval 1
    lcp-echo-failure 5 persist holdoff 1 defaultroute plugin zaptel.so"
    /usr/sbin/pppd $ARGS $1

12. Edit /etc/inittab on the local and remote machine to make sure ppp
    respawns if disconnected:

    p1:2345:respawn:/usr/local/bin/pppzaptel 1
    p2:2345:respawn:/usr/local/bin/pppzaptel 25

13. Set /usr/local/bin/pppzaptel as executable:

    chmod 755 /usr/local/bin/pppzaptel

14. Tell init to re-examine the /etc/inittab file:

    telinit q

15. Enjoy selectively unplugging T1's from your Zaptel interfaces and watch
    your data transfers continue.