An Introduction to Virtual Tunny.

1. Getting started.

You can access Virtual Tunny (VT) on line but it is rather large and it would be better to have downloaded the .zip files onto your hard disc.

To do this first create a folder "anoraks" on your hard disc. Then go to "anoracks/lorenz" on the codesandciphers web site by clicking on "and now for a real challenge" in the Anoraks Corner box on the opening page. Follow the instructions for down loading lorenz.zip and tools.zip.

From the /lorenz/ index click on Virtual Tunny. (the actual file is tunny.htm).

The large blank jack panel of the real Tunny machine shows in a left hand frame. Across the top is the opening banner and on the right hand side is the printout panel.

Scroll up the top banner panel to reveal the test and trace boxes and the three pull down menus on the left hand side.

Pull down the "cipher?" menu and click on the top entry, "KHcipher". The cipher text is then shown in the print out panel on the right.

Now pull down thw "starts?" menu and click on the bottom entry, "cipher". This sets the start jacks into the jack panel at the start positions correct for the selected cipher text.

Now pull down the "pattern?" menu and click on "KHpattern". This takes about 10 seconds on a 600Mhz lap top to place all the pattern jacks in position.

Next scroll up the left hand panel to show the row of key switches on its right hand side.

First click below the black key marked "K2". This sets it down to include the K2 One Back limitation which was used on the Lorenz machine for this cipher text.

Click underneath the left hand green key marked "SU", for setup and then under the grey key with "R" above it to run Tunny. After about 3 seconds the deciphered text will appear on the print out panel. If all has worked it will show "XWOLLE.WIR.AUCH"

2. Further exploration of Virtual Tunny.

You can select different cipher texts from the pull down menu, for instance "BRPcipher" is on the Bream BRpattern and has the P5 limitation on.

To decipher this you need both K2 and P5 keys set down.

The "Z.." cipher texts are on the "ZMUG" patterns.

You can also clear the patterns by selecting ""nopattern" and you can put all the starts at "1" by selecting "allones".

Note however, that if a menu item has been selected, then you have to select a different item before you can re-instate the original.

A. E. Sale, March 2004.