This is a quick walkthrough to use the ZeitControl IDE for building the HOTPC.BAS image from source. An Image file is included in the ootp distribution. This procedure is only necessary to modify the source code.

The IDE compiles HOTPC.BAS to compact PCODE and stores the result in HOTPC.IMG which is then downloaded to a ZC3.9 SmartCard using the IDE or Unix/Linux bcload utility.

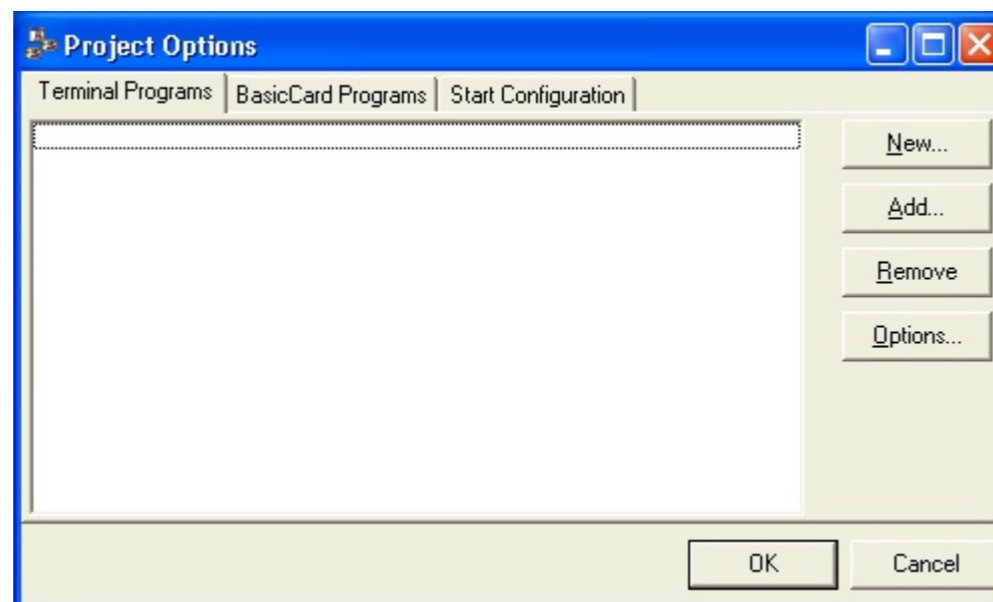The IDE provides an editor, source level debugger, Smart Card and Terminal emulation, and numerous examples.

The ZeitControl BasicCard IDE is available as a free download from http://www.basiccard.com

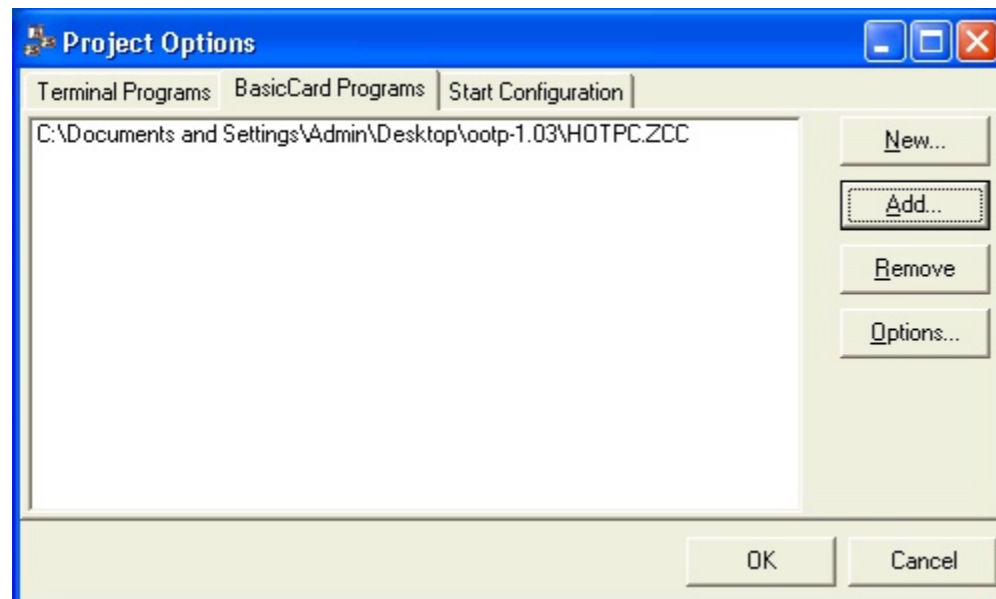# Create a folder ootp-1.03 with HOTPC.BAS and HOTP.DEF from ootp-release-1.03.tar.gz

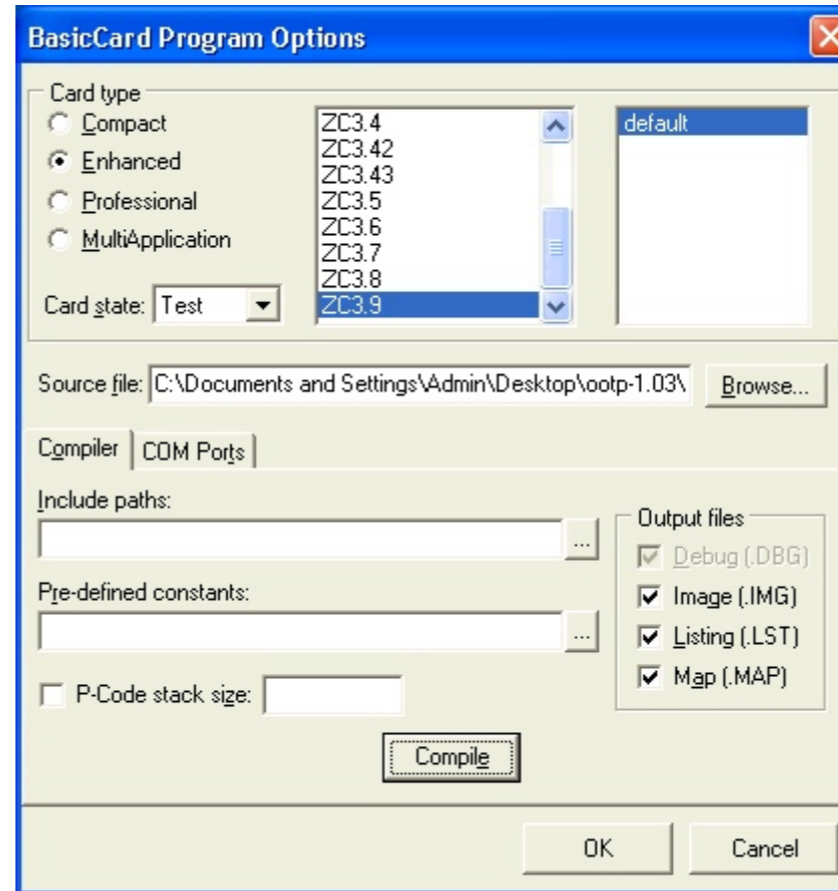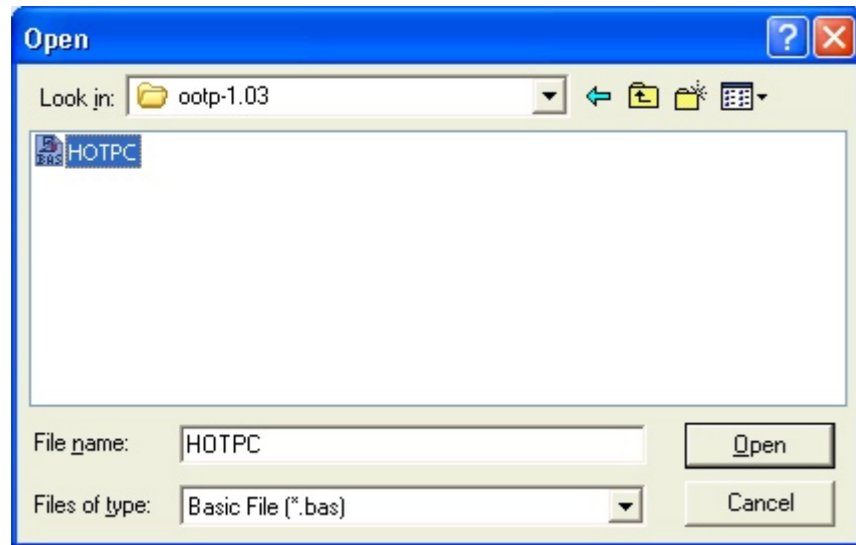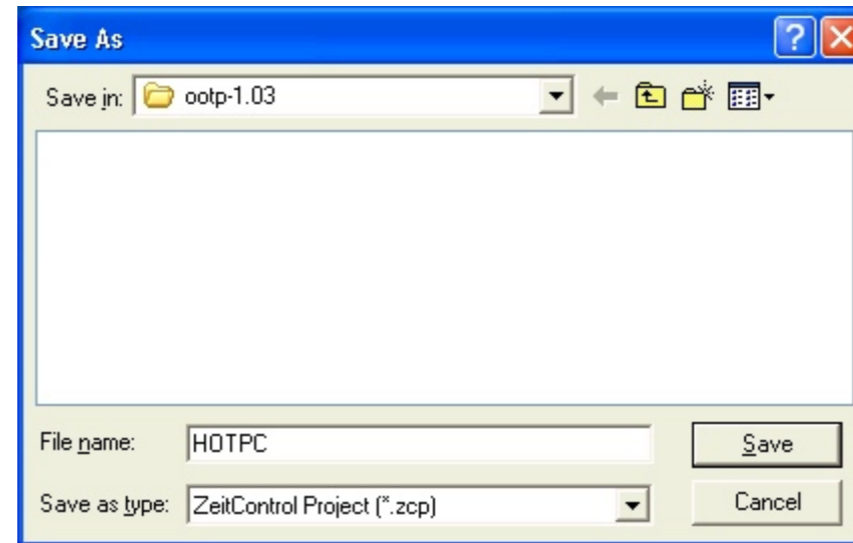# Start ZeitControl IDE
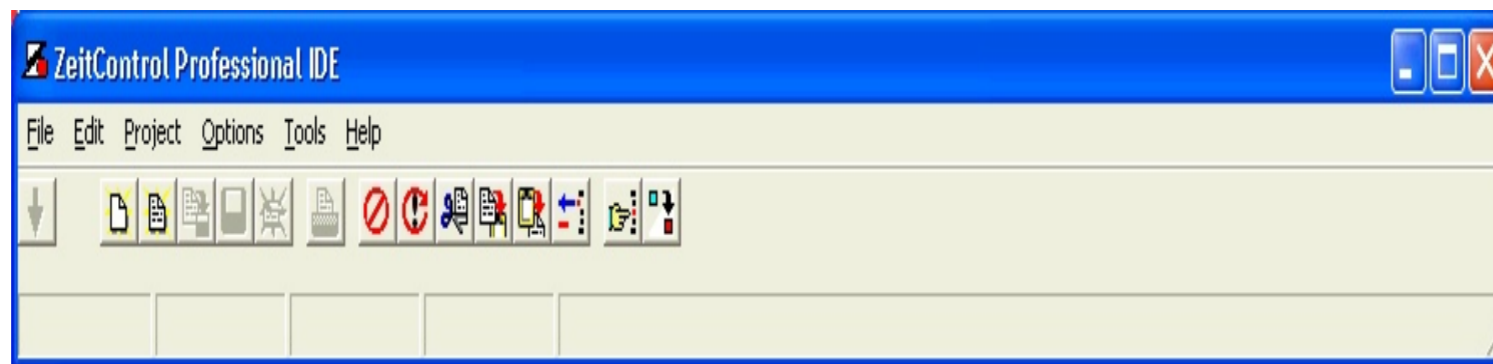
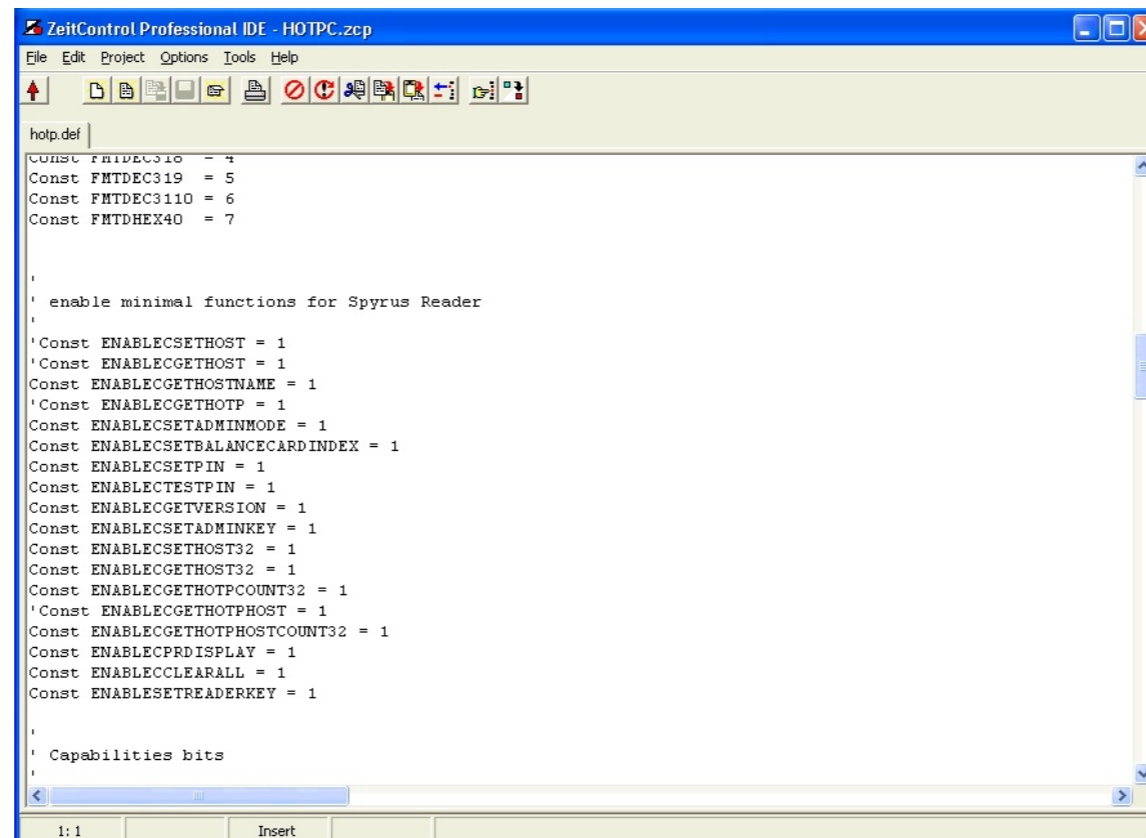# Select Project/Options. Click on BasicCard Programs

Click Add. Add HOTPC.BAS to the project as a BasicCard program. The card type is ZC3.9. Select the Image file option. Save as HOTPC.ZCC
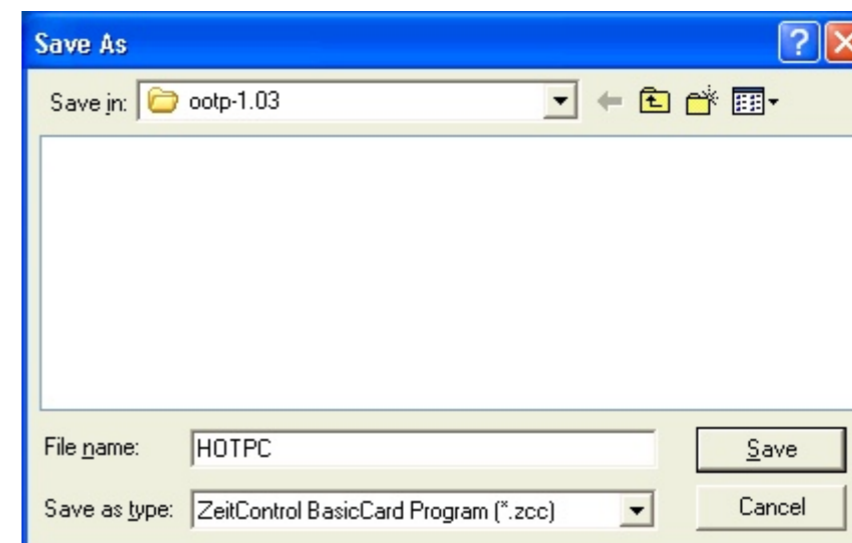
Click Compile. Save project as HOTPC.ZCP

Compilation Successful

EEPROM used: 6508 bytes out of 8096

80%

OK

Save As

Save in: ootp-1.03

File name: HOTPC

Save as type: ZeitControl Project (*.zcp)

Save   Cancel

At this point you may change the source code and re-compile, for example remove the ENABLEPRDISPLAY to reduce code size of the Balance Reader is not used.

ZeitControl Professional IDE - HOTPC.zcp

File Edit Project Options Tools Help

hotp.def

```
Const FMTDEC318  = 4
Const FMTDEC319  = 5
Const FMTDEC3110 = 6
Const FMTDHEX40  = 7


'
' enable minimal functions for Spyrus Reader
'
'Const ENABLECSETHOST = 1
'Const ENABLECGETHOST = 1
Const ENABLECGETHOSTNAME = 1
'Const ENABLECGETHOTP = 1
Const ENABLECSETADMINMODE = 1
Const ENABLECSETBALANCECARDINDEX = 1
Const ENABLECSETPIN = 1
Const ENABLECTESTPIN = 1
Const ENABLECGETVERSION = 1
Const ENABLECSETADMINKEY = 1
Const ENABLECSETHOST32 = 1
Const ENABLECGETHOST32 = 1
Const ENABLECGETHOTPCOUNT32 = 1
'Const ENABLECGETHOTPHOST = 1
Const ENABLECGETHOTPHOSTCOUNT32 = 1
Const ENABLECPRDISPLAY = 1
Const ENABLECCLEARALL = 1
Const ENABLESETREADERKEY = 1


'
' Capabilities bits
'
```

1: 1   Insert

Use the IDE to burn the HOTPC.IMG file to the SC This may also be done from Unix/Linux with the supplied bcload utility. Select Tools/Download to card, then select the image and SC port. Click Download to start.