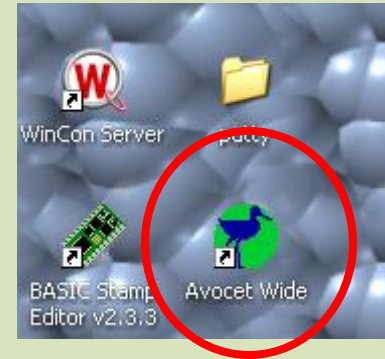


Creating HEX Files for the 6502 Microprocessor

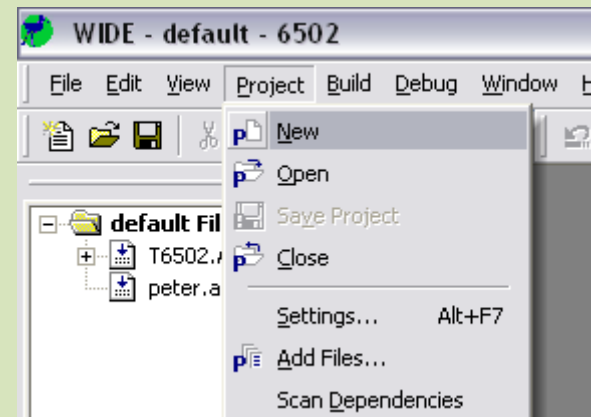
Using the ADX-65 Cross Assembler

*****THIS IS FOR VERSION AVOCET WIDE 3.29*****

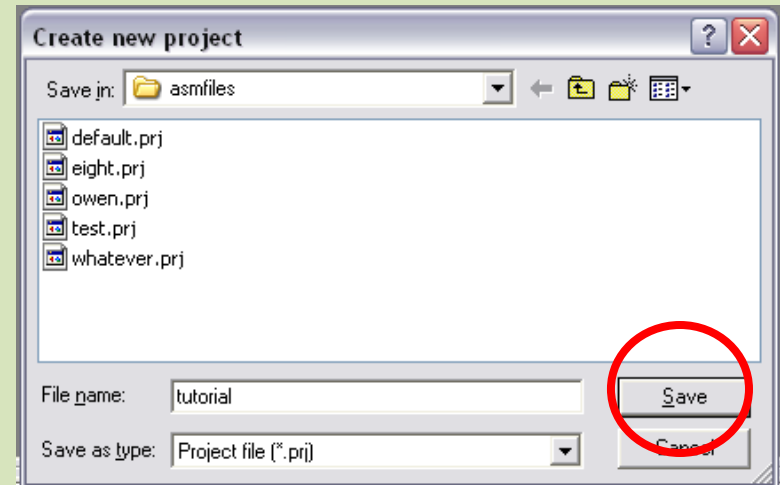
- Double click on the Avocet Wide icon on your desktop



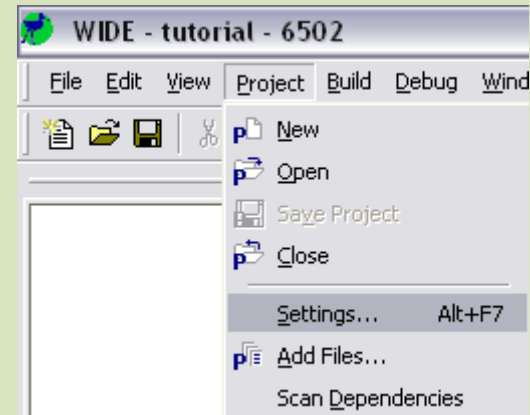
- Create a new project file
- Select Project >> New from toolbar



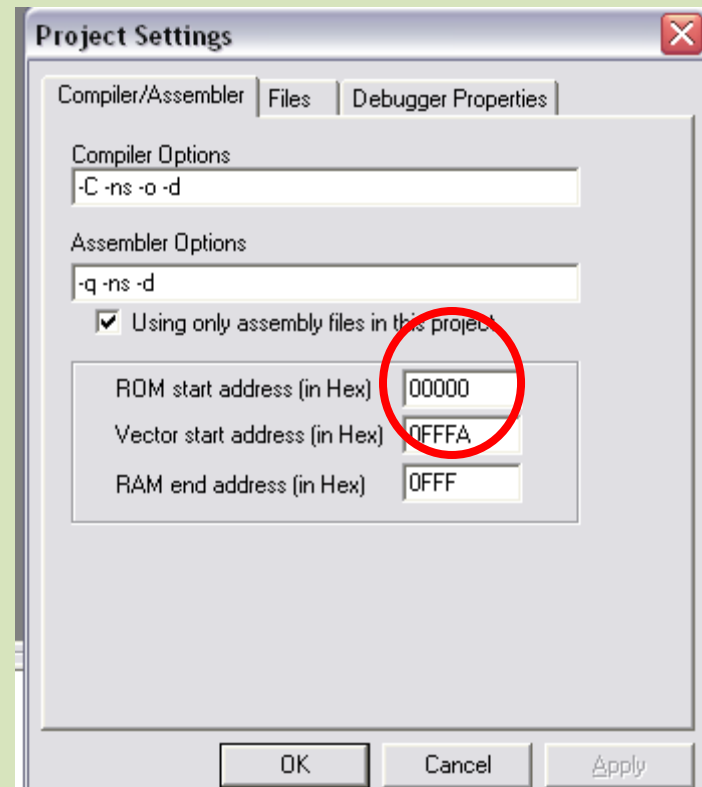
- Give your project a USEFUL name (i.e. MPU_test)
- Save project in WIDE/asmfiles
- File automatically given .prj extension



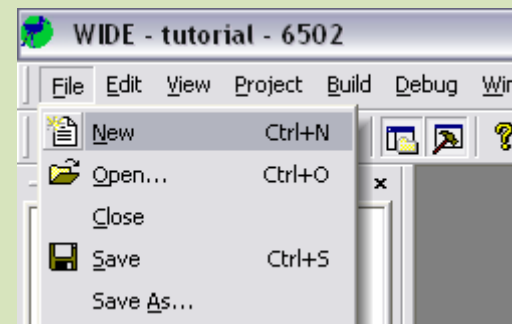
- Select Project >> Settings from toolbar



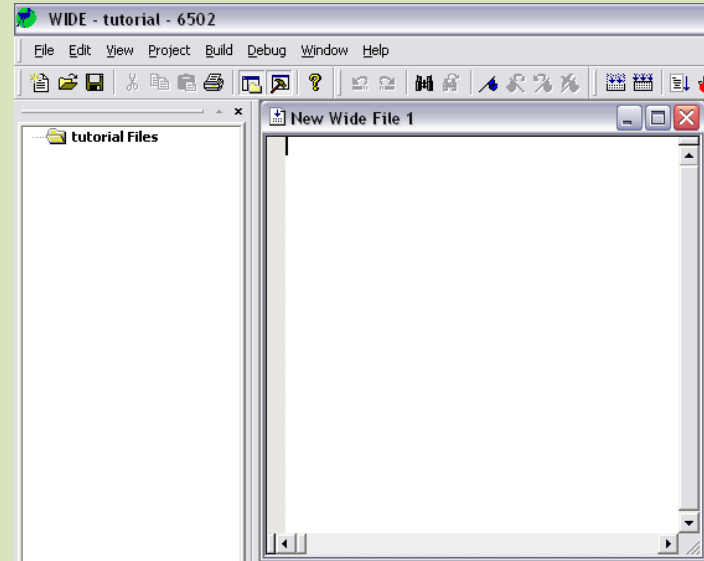
- Change ROM start address from 08000 to 00000
- Click OK



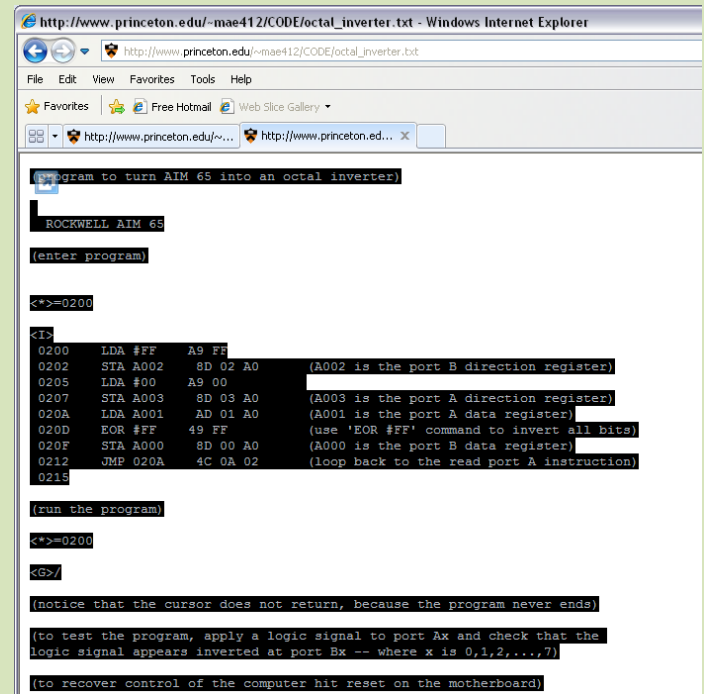
- Click File >> New



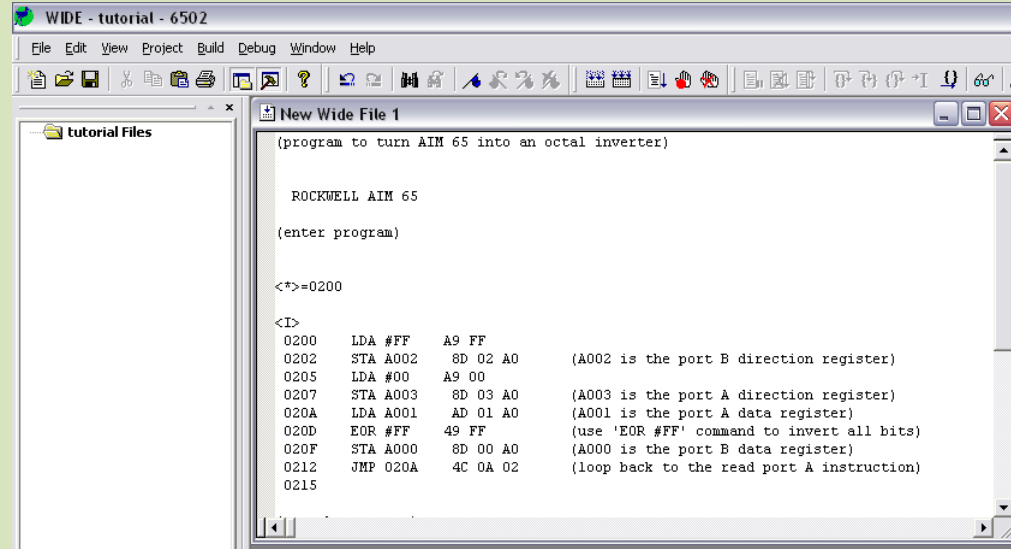
- This opens a new window New Wide File window
- Go to the program of your choice on the website, OR type in your ASM code



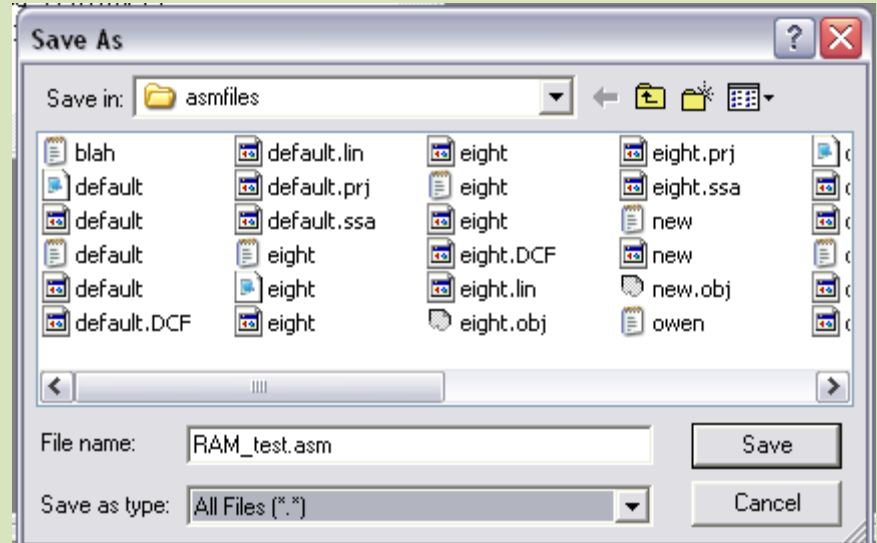
- To copy text from webiste:
 - Right click mouse
 - Choose **Select ALL**
 - **DO NOT** sweep with mouse to highlight text, this may cause errors in your code



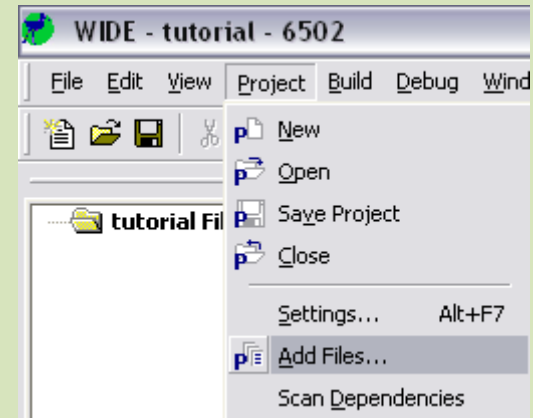
- In the blank New Wide File window paste your text



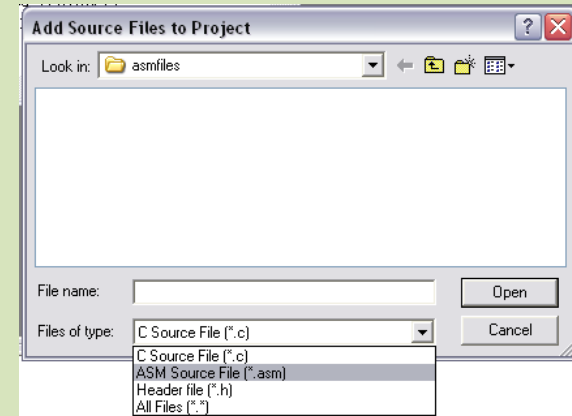
- Save your ASM code with a better name (i.e. RAM_test.asm)
- File >> Save
- Save file in directory WIDE/asmfiles



- Project >> Add files

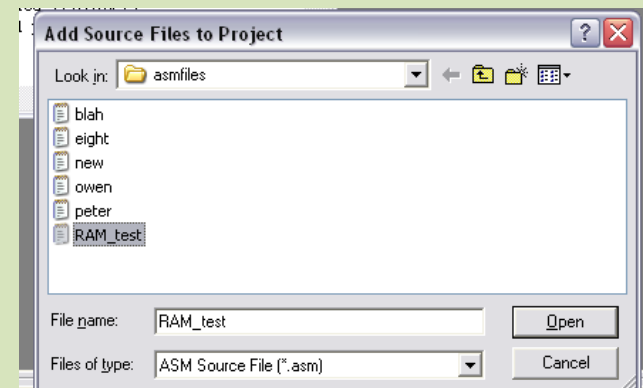


- Change “Files of type” to .asm

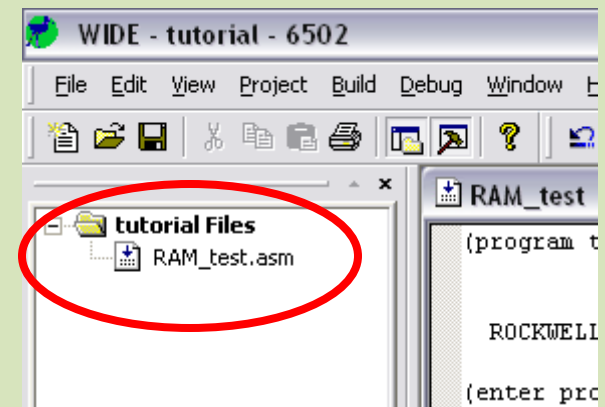


- Add .asm file you just saved

- Click “Open”

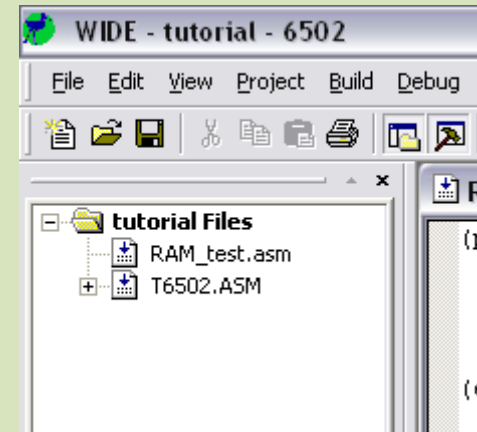


- File should appear under “tutorial files” on the left

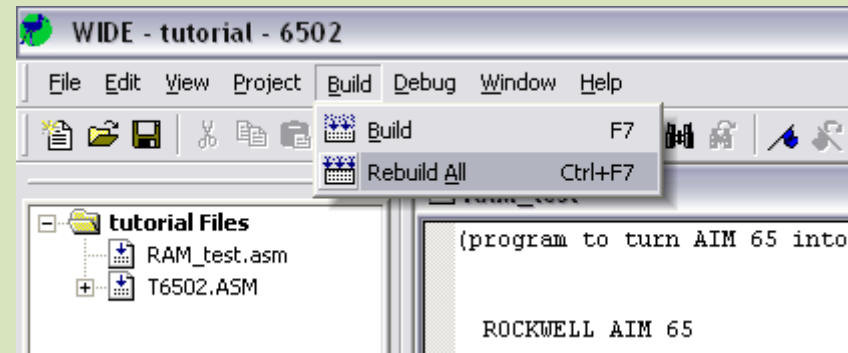


- Repeat last couple of steps to add the file c:\WIDE\x6502\t6502.asm

- Note: to find t6502.asm you have to change directories, the .asm file you saved was in c:\WIDE\asmfiles\XXX.asm



- Build >> Rebuild All



- Build message appears at bottom of screen
- Check for a few things: link errors, input name, output name
- NOTE: The output name is the name you gave the original project

```
Input  Filename : C:\WIDE\asmfiles\T6502
Input  Filename : C:\WIDE\asmfiles\peter
Input  Filename :

Output Filename : C:\WIDE\asmfiles\tutorial

Library Filename :

Options (D,G,P A,R,S[U] C,I,M,N,SM,Z E,H,T,X,1,2,3 <CR> = Default) : DCH

Assembler Listing Relocated : C:\WIDE\asmfiles\T6502.LST
No 'SYMBOLS' Directive in File : C:\WIDE\asmfiles\peter.SBT

Linker Output Filename : C:\WIDE\asmfiles\tutorial.HEX
Disk Listing Filename : C:\WIDE\asmfiles\tutorial.LST
Debug Control Filename : C:\WIDE\asmfiles\tutorial.DCF
Symbol Table Filename : C:\WIDE\asmfiles\tutorial.SYM
Format : 2500 A.D. High Level

Link Errors : 0      Output Format : Intel Hex

Linker complete. tutorial.hex is up to date.
```

Ready

- Follow EMP-21 Instructions
- Your *.hex file is in c:\WIDE\asmfiles\
•For instance, this examples output file is tutorial.hex (highlighted above)