Address Resolution and Linking

November 10

CSC201 Section 002

Fall, 2000
LST (listing) File

- Generated by _____ option to ml.exe (change the make file)

- Contains
  - ____________________________
  - ____________________________
  - ____________________________
  - ____________________________
  - ____________________________
  - ____________________________
  - ____________________________
  - ____________________________

- (see hw3a.lst)
and Linking

- A *linker* ______________________________
  - Means the variables in data sections must be ____________
  - References to those variables must be _________________

- How does the linker know which bytes are ______________?  
  - The assembler tells it, in the .obj file  
    ("note to linker: ________________________________")

- Other notes from the assembler
  - ________________________________
  - ________________________________
  - ________________________________
Separate Compilation

- The ability to compile and assemble __________________, and link together as needed
- Reduced programming effort: _____________________________________________
- Convenience: __________________________________________________________
- Flexibility: _____________________________________________________________
Separate Compilation

• Add EXTRN and PUBLIC directives
  - ______________________________
  - ______________________________
  - ______________________________
  - ______________________________

• Use same directives in all modules, except...
  - ______________________________
  - ______________________________
  - ______________________________
  - ______________________________
Procedures in Separate Modules

- Make sure the caller and callee agree on conventions!

- Check compiler specification for procedures, if linking with high-level language