

## CSI 402 – Systems Programming – Handout 8.2

### Outline for a Relocating Loader

**Note:** The following outline is based on the format of the corresponding load module discussed in Slide 8-4 of Lecture 8.

#### Outline for Relocating Loader:

1. Obtain the starting address (also called the “load point”) for the module. (This generally involves a call to the operating system.) Let  $X$  denote the load point.
  2. Load each Text Record starting from the address obtained by adding  $X$  to the starting address indicated in the Text Record. (The loader must also do a test to ensure that the checksum stored in the Text Record matches the computed checksum.)
  3. For each Modifier Record, access the specified bytes and add  $X$  to the address stored in those bytes.
  4. Let  $Y = X +$  the address specified in the End Record. Jump to address  $Y$  to start program execution.
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