

CSI 402 – Systems Programming – Handout 7.1

Examples for External Reference and Definition Tables

Note: This handout shows two SIC/XE program segments in two separate files. One file containing the main program references external symbols which are defined in the other file. For convenience, the LC values are also shown. (These values are not part of the file.) The External Reference Table (ERT) for the first file and the External Definition Table (EDT) for the second file are also shown.

File: main.asm

LC Value

```

                                EXTREF  SORT,MAX  #External symbols used in this file.
                                START    0        #Main program.
                                .
                                .
27                               +JSUB    SORT     #4-byte instructions are needed.
                                .
                                .
90                               +JSUB    MAX
                                .
                                .
114                              +JSUB    SORT
                                .
                                .
```

External Reference Table (ERT) for main.asm:

Symbol	Relative Address
SORT	28
MAX	91
SORT	115

(over)

File: proc.asm

LC Value

```
115      SORT      EXTDEF  SORT,MAX  #External symbols defined in this file.
          CSECT    #Procedure SORT.
          .
          .
          RSUB

220      MAX       CSECT                    #Procedure MAX.
          .
          .
          RSUB
```

External Definition Table (EDT) for proc.asm:

Symbol	Relative Address
SORT	115
MAX	220
