Appendix E

HOW TO DESIGN AN OVERLAY STRUCTURE.

The size of the object program load module can be decreased significantly if it is edited as an overlay program. Routines used to start and finish the object program, as well as diagnostic routines and cardnumber tables, are not needed during execution and they can be put in a segment parallel to the object code.

In order to get an overlay, the parameter OVLY must be specified to the linkage editor and the structure of overlays is defined by control cards:

```plaintext
// EXEC SIMCL..., PARM.LKED='MAP,LET,OVLY'
//SIM.SYSIN DD *
<program>

/*
//LKED.SYSIN DD *
OVERLAY X TRANSIENT SEGMENT
INSERT (ZYQERROR, ZYQCOMM, ZYQINIT, ZYQTERM, ZYQCNT)
INSERT (ZYQMAP, ZYQMAPTR, ZYQDUMP)
OVERLAY X OBJECT CODE SEGMENT
INSERT ZYQMAIN
*/
```

For each external procedure, the card

```
INSERT EP#
```

can be put in the transient segment (where EP is the name of the procedure truncated to 7 characters, and

```
INSERT EP#
```

can be put in the object code segment.