

ASSIGNMENT

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Pass 1 algorithm assigns Address to all external symbols by creating ESTAB(External Symbol Table).

ESTAB is table which contains information and address of a Header and Definition Record, it is used to store the name and address of each external symbol in the set of control section being loaded.

Two variables PROGADDR(Program Address) and CSADDR(control section Address).

PROGADDR- it is the beginning address in memory where the linked program is to be loaded.

CSADDR- it contains the starting address assigned to the control section currently being scanned by the loader.

Pass 2 performs Loading, Linking and Relocation.

In pass 2 algorithm, each text record is read and the object code is moved to the specified address also the current value in CSADDR. When the modification record is encountered the symbol table whose values to be used for modification is looked up in external symbol table, then this value is added to the indicated location in memory.