

Phase 1 Reorder Subsystem

The reorder subsystem is used to reorder a contiguous subset of blocks of text by alphabetical order of functions name. An example illustrates its power and usage:

□ REORDER C/R

underlined items supplied by subsystem

PROGRAM NAME: XXXXXXXXXXXX C/R

i.e., ≥ 20 characters

NAME TOO LONG

PROGRAM NAME: XXX C/R

NO SUCH PROGRAM EXISTS

PROGRAM NAME: TIMEOUT C/R

if program is globally invalid then

PROGRAM GLOBALLY INVALID

PROGRAM NAME:

else

LOWER BLOCK NUMBER: n_0 C/R

if $n_0 < 2$ or $n > \#$ of blocks then

BLOCK NUMBER IS NOT BETWEEN 2 and K where K is # of blocks

LOWER BLOCK NUMBER: n_1 C/R

the blocks included between n_1 and K will be re-ordered alphabetically by function name. In the process of copying excess spaces are deleted, i.e., the new text segment is entirely contiguous. The lengths in the directory and the segment are changed to reflect this shortening and the whole file is recopied onto the original segment. Then

REORDER COMPLETED

□