

NAME

LEXHEB – Sort Hebrew hashcodes into ascending lexicographical order.

SYNOPSIS

CALL LEXHEB(MXCH,NWD,LS,VS, ORDER)

MXCH	is the INTEGER*4 number of characters (rows) in LS and VS
NWD	is the INTEGER*4 number of words (columns) to sort
LS(MXCH,NWD)	is the INTEGER*1 matrix whose columns are letter hashcodes
VS(MXCH,NWD)	is the INTEGER*1 matrix whose columns are vowel hashcodes
ORDER	is the INTEGER*4 order of the columns in LS and VS

DESCRIPTION

On input ORDER must contain the starting order of the columns in LS and VS (typically 1...NWD) and on output it contains the order they must have for the Hebrew words they contain to be arranged alephbetically; LS and VS themselves are never changed. For hashcodes read from `${HOME}/Utility/hebrew.hsh`, MXCH=12.

The routine constructs a local matrix of NWD columns, each corresponding to a word. Each column consists of the hashcodes for the consonants of the word (from LS) followed by the hashcodes of the vowels in the word (from VS). Then it does a lexicographic bubble-sort of the concatenated columns, rearranging ORDER in the process.

DIAGNOSTICS

Duplicate character sequences are reported.

LINKAGE

gfortran source.f -L\${HOME}/lib -lmisc

AUTHOR

Michael Kupferschmid

