A partial multi-word facility is being implemented for the FORTRAN version of LITTLE; it will have the following specifications (unless objections are raised):

A. Restrictions:

- 1. Fields will not go over machine word boundaries.
- 2. Items will not be packed more then one in a machine word. Note however that many fields of a single item can be present within one word.
- 3. If a field extends(illegally for the present implementation) beyond a machine word the excess bits are obtained (circularly) from the right of the word, (eg.F.59,3,X results in three bit quantity with bit 59 the rightmost and 1 the leftmost.)
- 4. No checks will be made as to whether a field extends beyond a variable's size

B. Properties:

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- 2. If a long quantity is stored into a shorter one, the number of words necessary to fill the shorter one will be transfered starting with the word containing bit .1.
- 3. If a shorter quantity is stored into a longer one, only the number of words of the shorter will be transfered.
- 4. Multiword constants will now be handled (with the above restrictions) thereby doing away with their current restriction to subroutine parameters.
- C. Input Output of multiword items will be handled as follows:
- l. An n-word single variable will act on READ and WRITE in the same way as an n element array.
- 2. A n word variable m-element array will act on READ and WRITE as an n * m element one dimensional array with each item in high to low bit order.