

HARVEST REPORT #8

Subject: Preliminary Set of Pseudo
Instructions

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The attached sheets describe the first six of a preliminary set of pseudo instructions which may be especially applicable to the Plantation problems.

Additional instructions and revisions to the preliminary instructions will be added from time to time.

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SINGLE STREAM

Given one stream of data of known or unknown length:

(1) From a specified or computed start point or from a special, specified bite advance a specified or computed number of times through the stream, advancing each time a specified, fixed increment, or according to a specified irregular sequence of increments, or to the next higher special, specified bite.

(2) Make the group which begins at each start point and each successive advance point available for other operations.

(3) Repeat (1) and (2) a specified or computed number of times, advancing the start point for each repeat by a specified, fixed increment, or to the next higher special, specified bite.

(4) Make the counts necessary to identify the present repeat number, advance point, and position of advance point relative to the beginning of the stream available at all times during the operation.

(5) Provide a means of suspending or continuing this operation under control of another operation.

DOUBLE STREAM

Given two stream of data of known or unknown length:

(1) Hold stream A stationary and align stream B against stream A such that bite position \emptyset of B is aligned with a specified or computed bite position in A, or with a special, specified bite in A.

(2) Make the double stream defined by the area of overlap of A and B available for single stream operation.

(3) Repeat (1) and (2) a specified or computed number of times, advancing the starting alignment position in A for each repeat by a specified, fixed increment or to the next higher special bite.

(4) Make the counts necessary to identify the present repeat number.

COMPARE

Compare specified bits and bites within an available group with specified bits and bites in the same group, in a specified constant, in an available count, or in a specified store. Provide a high, low, or equal signal for the group comparison result available for other operations. Provide an equal or unequal signal for each bite comparison result and for each bit within bite comparison result available for other operations.

TABLE LOOKUP-ADDRESS

Use the specified bites of an available group as an address for table lookup. Add \emptyset or specified power of 2 to table content. Make table content available for other operations. Provide either zero or one alternate memory areas for the table as specified, based upon the specified table size limits. Alternate the use of table areas on specified available signal.

COUNT

Count available group or signal on specified modulus. Start count at specified value and count by specified power of 2. Reset on specified signal, or at specified count. Increase the modulus and the starting value on each reset by specified increments. Make count available for other operations.

OPERATE - ADD - SUBTRACT

Operate on an available group by adding, or subtracting specified bits and bites within the available group with specified bits and bites in the same group or in a specified constant, an available count, or a specified store. Add or subtract with or without carry between bites, on a specified modulus. Align right end bite of constant, count, or store with specified bite of available group. Repeat a specified or computed number of times, or until a specified signal. Make original or modified group, and \emptyset , -, +, signals available (as appropriate) for other operations.