HONEYWELL EDP

SUBJECT:

Alternate Method of Coding MAT and MIT instructions.

SPECIAL
INSTRUCTIONS:

This bulletin is an addendum to the Series 200 Programmers' Reference Manual, Models 200/1200/2200 (file number 113.0005.0000.00.00). The information contained herein will be incorporated into the manual at the time of the next revision.

ALTERNATE METHOD OF CODING MAT AND MIT INSTRUCTIONS

The formats described on pages 8-77 through 8-84 of the Models 200/1200/2200 Reference Manual employ octal variants to specify the base address of the translation table to be used. An alternate and simpler method of coding these instructions is to use a "C address" in place of the variant characters. This method relieves the programmer of dealing with modulo-64 addresses and converting to octal each time an MAT or MIT instruction is written.

The alternate format of the MAT instruction is:

OP CODE	A ADDRESS	B ADDRESS	C ADDRESS
███	████████	████████	████████

The C address replaces the two octal variants which define the base address of the translation table. It must be coded as a symbolic tag which is contained in the location field of another source-program entry (e.g., a RESV statement). For instance, the MAT example on page 8-79 of the reference manual could be changed to

    MAT/EXCODE, EQUIV, MATAB1

where MATAB1 is the tag assigned by another source program entry to location 256, the base address of the table in the example.

The alternate format of the MIT instruction is:

OP CODE	A ADDRESS	B ADDRESS	C ADDRESS	VARIANT
██	███████	███████	███████	████

The C address replaces variants 1 and 2 described in the reference manual (i.e., the variants that specify the base address of the table). The remaining octal variant is the character that defines the size of the information units involved in the operation, as described in Table 8-17 of the reference manual. Thus, the MIT instruction example on page 8-84 of the reference manual could be changed to

    MIT/EIGHT, SIX, MITAB, 01

where MITAB is previously equated to location 512.