Test Data:

$Y = AX^2 + B$

$Y = AX^2 + BX + C$

$\mathbf{Y} = A\mathbf{X}^2 + BX + C$ (**X** and **Y** are vectors of n elements. For the simulation you can assume n is equal to five)

Note:

1) A, B, and C are constant values stored in main memory
2) B_0 is preset by zero
3) Assume there is no memory conflict
4) Branch unit uses either the increment unit (opcode: 02, 04, 05, 06, and 07) or the long add unit (opcode 03x) as its partner
5) For CDC7600, assume normalize unit performs the same as Branch unit in CDC6600.