Notes:

- 1. P(0) uses only a few select bits of the PC (program counter) to index the base predictor.
- 2. The two "hash" boxes shown for each stage need not be identical; the number of output bits of each type of the hash function are probably unequal.
- 3. The histories are: h[0:L(1)-1], h[0:L(2)-1], etc., with L(1) < L(2) < L(3) < L(4), and L(0) = 0. The "hash function" is usually very simple, e.g. bitwise XOR.
- 4. Each tag is itself a hash value, and between 4-8 bits usually.
- 5. Each "prediction" is usually a 2-3 bit FSM state encoding, from which the prediction can be easily obtained.
- 5. P(0) output is the default prediction, if each of P(1) through P(4) mismatch. Otherwise, the prediction corresponds to the longest matching history.

