**local\_history\_table\_val**

**global\_prediction\_table\_val**

**choice\_prediction\_table\_val**

**local\_prediction\_table\_val**

**b\_index**

Program counter

taken

taken

**path\_history**

Prediction

Path history

Update

Path history

Update

Choice prediction

(4,096 x 2)

Update

Global prediction

(4,096 x 2)

Update

Local

History Table

(1,024 x 10)

Update

Local

prediction

(1,024 x 3)

Taken

Local

prediction

(1,024 x 3)

Local

History

Table

(1,024 x 10)

Global prediction

(4,096 x 2)

Choice prediction

(4,096 x 2)