



Figure 3. Controller model architecture for recursively constructing one block of a convolutional cell. Each block requires selecting 5 discrete parameters, each of which corresponds to the output of a softmax layer. Example constructed block shown on right. A convolutional cell contains  $B$  blocks, hence the controller contains  $5B$  softmax layers for predicting the architecture of a convolutional cell. In our experiments, the number of blocks  $B$  is 5.