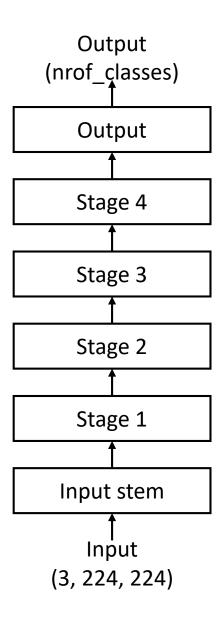
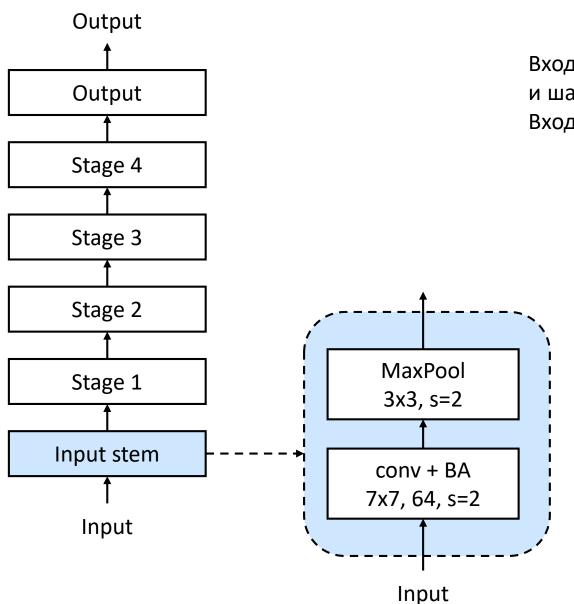
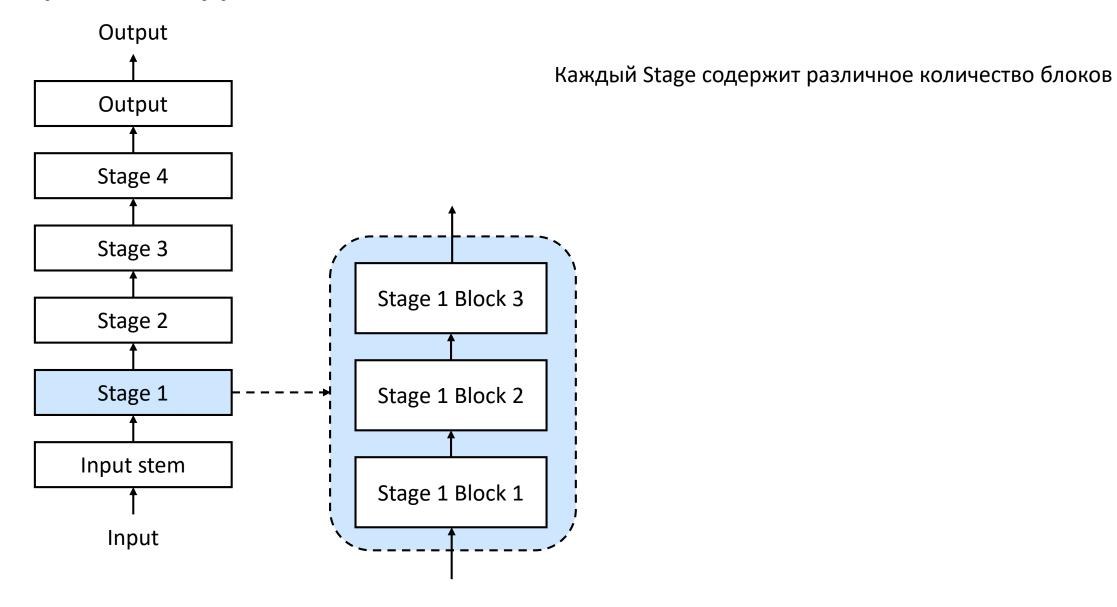
layer name	output size	18-layer	34-layer	50-layer	101-layer	152-layer
conv1	112×112	7×7, 64, stride 2				
		3×3 max pool, stride 2				
conv2_x	56×56	$\left[\begin{array}{c} 3 \times 3, 64 \\ 3 \times 3, 64 \end{array}\right] \times 2$	$\left[\begin{array}{c} 3 \times 3, 64 \\ 3 \times 3, 64 \end{array}\right] \times 3$	$\begin{bmatrix} 1 \times 1, 64 \\ 3 \times 3, 64 \\ 1 \times 1, 256 \end{bmatrix} \times 3$	$\begin{bmatrix} 1 \times 1, 64 \\ 3 \times 3, 64 \\ 1 \times 1, 256 \end{bmatrix} \times 3$	$\begin{bmatrix} 1 \times 1, 64 \\ 3 \times 3, 64 \\ 1 \times 1, 256 \end{bmatrix} \times 3$
conv3_x	28×28	$\left[\begin{array}{c} 3\times3, 128\\ 3\times3, 128 \end{array}\right] \times 2$	$\left[\begin{array}{c} 3\times3, 128\\ 3\times3, 128 \end{array}\right] \times 4$	$ \left[\begin{array}{c} 1 \times 1, 128 \\ 3 \times 3, 128 \\ 1 \times 1, 512 \end{array}\right] \times 4 $	$ \left[\begin{array}{c} 1 \times 1, 128 \\ 3 \times 3, 128 \\ 1 \times 1, 512 \end{array}\right] \times 4 $	$ \left[\begin{array}{c} 1 \times 1, 128 \\ 3 \times 3, 128 \\ 1 \times 1, 512 \end{array}\right] \times 8 $
conv4_x	14×14	$\left[\begin{array}{c} 3\times3,256\\ 3\times3,256 \end{array}\right]\times2$	$ \begin{bmatrix} 3 \times 3, 256 \\ 3 \times 3, 256 \end{bmatrix} \times 6 $	$   \begin{bmatrix}     1 \times 1, 256 \\     3 \times 3, 256 \\     1 \times 1, 1024   \end{bmatrix} \times 6 $	$   \begin{bmatrix}     1 \times 1, 256 \\     3 \times 3, 256 \\     1 \times 1, 1024   \end{bmatrix} \times 23 $	$   \begin{bmatrix}     1 \times 1, 256 \\     3 \times 3, 256 \\     1 \times 1, 1024   \end{bmatrix} \times 36 $
conv5_x	7×7	$\left[\begin{array}{c} 3\times3,512\\ 3\times3,512 \end{array}\right]\times2$	$\left[\begin{array}{c} 3\times3,512\\ 3\times3,512 \end{array}\right]\times3$	$   \begin{bmatrix}     1 \times 1, 512 \\     3 \times 3, 512 \\     1 \times 1, 2048   \end{bmatrix} \times 3 $	$ \left[\begin{array}{c} 1 \times 1,512 \\ 3 \times 3,512 \\ 1 \times 1,2048 \end{array}\right] \times 3 $	$   \left[ \begin{array}{c}     1 \times 1,512 \\     3 \times 3,512 \\     1 \times 1,2048   \end{array} \right] \times 3 $
	1×1	average pool, 1000-d fc, softmax				
FLOPs		$1.8 \times 10^9$	$3.6 \times 10^9$	$3.8 \times 10^9$	$7.6 \times 10^9$	$11.3 \times 10^9$

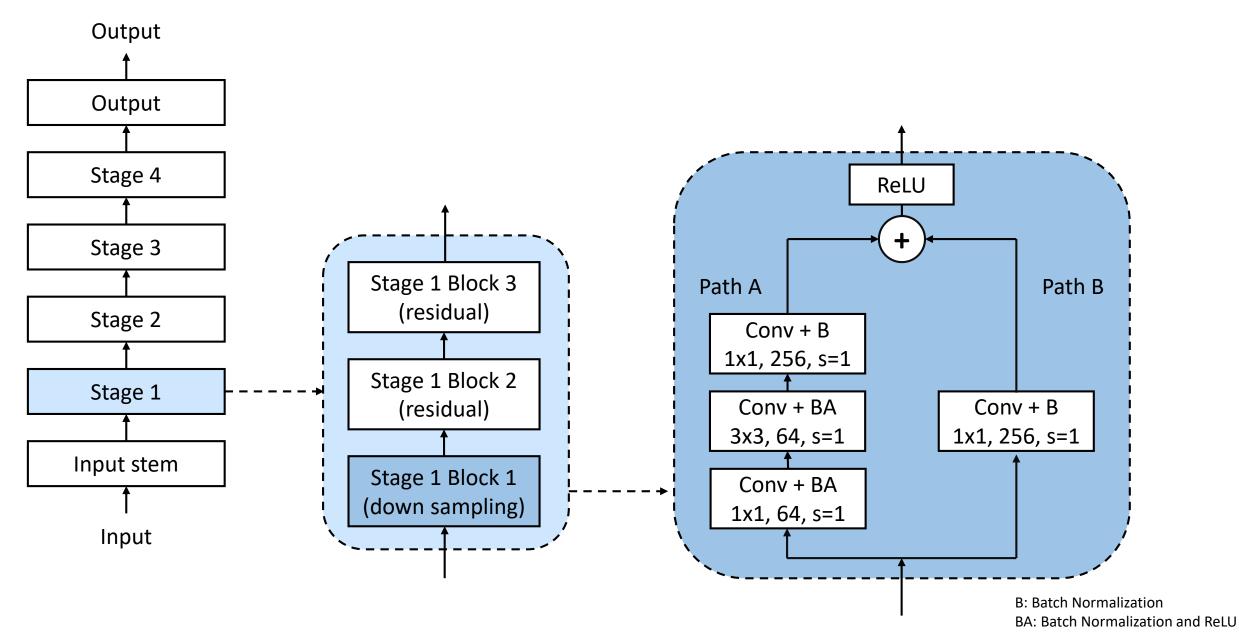


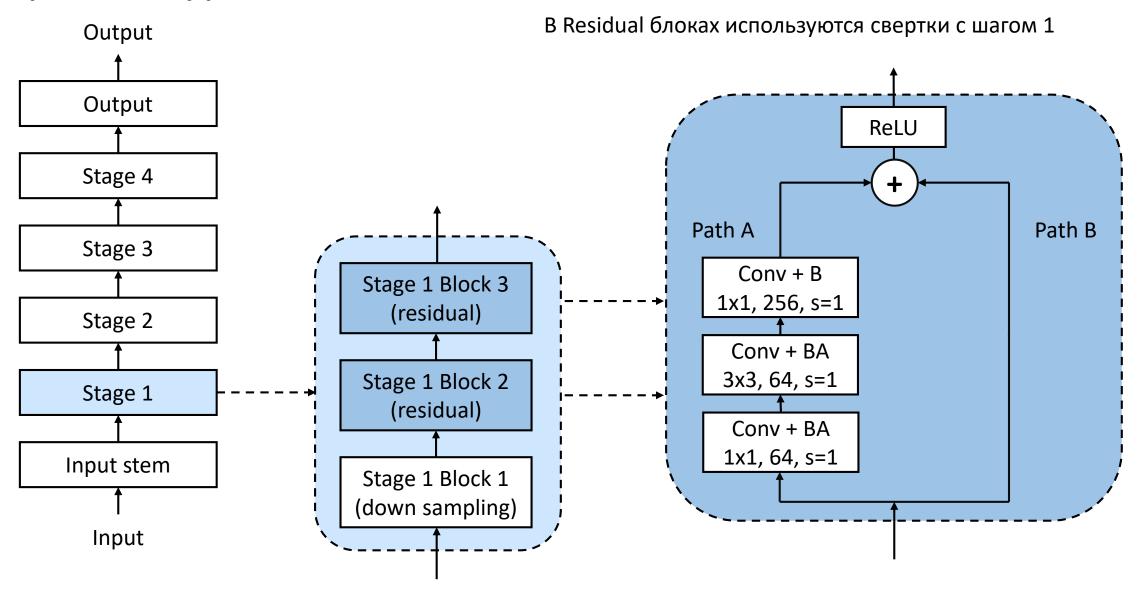


Входной блок содержит свертку 7х7 с количеством фильтров 64 и шагом 2, за которым следует max-pooling 3х3 также с шагом 2. Входной блок уменьшает ширину и высоту входа в 4 раза.

B: Batch Normalization
BA: Batch Normalization and ReLU







B: Batch Normalization
BA: Batch Normalization and ReLU

