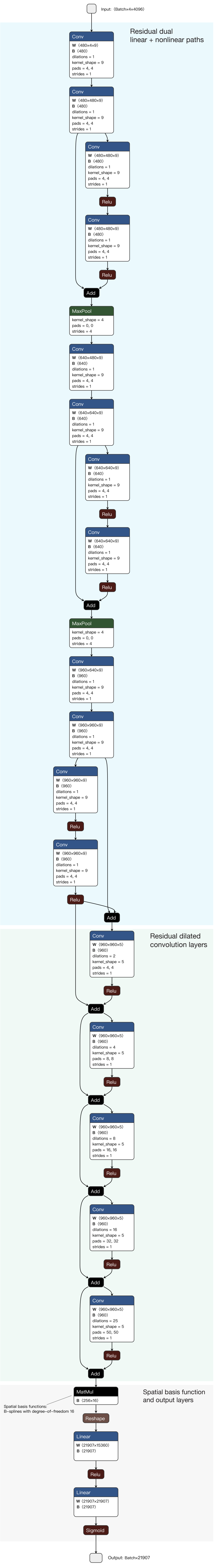
Input: ⟨Batch×4×4096⟩
Residual dual
linear + nonlinear paths
Conv
W ⟨480×4×9⟩
B ⟨480⟩
dilations = 1
kernel_shape = 9
pads = 4, 4
strides = 1
Conv
W ⟨480×480×9⟩
B ⟨480⟩
dilations = 1
kernel_shape = 9
pads = 4, 4
strides = 1
Conv
W ⟨480×480×9⟩
B ⟨480⟩
dilations = 1
kernel_shape = 9
pads = 4, 4
strides = 1
Relu
Conv
W ⟨480×480×9⟩
B ⟨480⟩
dilations = 1
kernel_shape = 9
pads = 4, 4
strides = 1
Relu
Add
MaxPool
kernel_shape = 4
pads = 0, 0
strides = 4
Conv
W ⟨640×480×9⟩
B ⟨640⟩
dilations = 1
kernel_shape = 9
pads = 4, 4
strides = 1
Conv
W ⟨640×640×9⟩
B ⟨640⟩
dilations = 1
kernel_shape = 9
pads = 4, 4
strides = 1
Conv
W ⟨640×640×9⟩
B ⟨640⟩
dilations = 1
kernel_shape = 9
pads = 4, 4
strides = 1
Relu
Conv
W ⟨640×640×9⟩
B ⟨640⟩
dilations = 1
kernel_shape = 9
pads = 4, 4
strides = 1
Relu
Add
MaxPool
kernel_shape = 4
pads = 0, 0
strides = 4
Conv
W ⟨960×640×9⟩
B ⟨960⟩
dilations = 1
kernel_shape = 9
pads = 4, 4
strides = 1
Conv
W ⟨960×960×9⟩
B ⟨960⟩
dilations = 1
kernel_shape = 9
pads = 4, 4
strides = 1
Conv
W ⟨960×960×9⟩
B ⟨960⟩
dilations = 1
kernel_shape = 9
pads = 4, 4
strides = 1
Relu
Conv
W ⟨960×960×9⟩
B ⟨960⟩
dilations = 1
kernel_shape = 9
pads = 4, 4
strides = 1
Relu
Add
Conv
W ⟨960×960×5⟩
B ⟨960⟩
dilations = 2
kernel_shape = 5
pads = 4, 4
strides = 1
Relu
Add
Conv
W ⟨960×960×5⟩
B ⟨960⟩
dilations = 4
kernel_shape = 5
pads = 8, 8
strides = 1
Relu
Add
Conv
W ⟨960×960×5⟩
B ⟨960⟩
dilations = 8
kernel_shape = 5
pads = 16, 16
strides = 1
Relu
Add
Conv
W ⟨960×960×5⟩
B ⟨960⟩
dilations = 16
kernel_shape = 5
pads = 32, 32
strides = 1
Relu
Add
Conv
W ⟨960×960×5⟩
B ⟨960⟩
dilations = 25
kernel_shape = 5
pads = 50, 50
strides = 1
Relu
Add
Residual dilated
convolution layers
MatMul
B ⟨256×16⟩
Spatial basis functions:
B-splines with degree-of-freedom 16
Reshape
Linear
W ⟨21907×15360⟩
B ⟨21907⟩
Relu
Linear
W ⟨21907×21907⟩
B ⟨21907⟩
Sigmoid
Spatial basis function
and output layers
Output: Batch×21907