

# Test Results Summary

## Successful Test Cases

| batch_size | in_channels | out_channels | kernel_size | stride | padding | output_sum_diff         | nnz_cpp_result | nnz_torch_eval | nnz_difference |
|------------|-------------|--------------|-------------|--------|---------|-------------------------|----------------|----------------|----------------|
| 10         | 1           | 16           | 1           | 1      | 0       | 2.514570951461792e-08   | 2768           | 2768           | False          |
| 10         | 1           | 16           | 1           | 1      | 1       | 4.936009645462036e-08   | 2048           | 2048           | False          |
| 10         | 1           | 16           | 2           | 1      | 0       | 1.1548399925231934e-07  | 9280           | 9280           | False          |
| 10         | 1           | 16           | 2           | 1      | 1       | -1.4528632164001465e-07 | 8496           | 8496           | False          |
| 10         | 1           | 16           | 3           | 1      | 0       | 3.4458935260772705e-08  | 18064          | 18064          | False          |
| 10         | 1           | 16           | 3           | 1      | 1       | 1.8998980522155762e-07  | 18400          | 18400          | False          |
| 10         | 1           | 32           | 1           | 1      | 0       | -1.210719347000122e-08  | 4224           | 4224           | False          |
| 10         | 1           | 32           | 1           | 1      | 1       | -6.658956408500671e-08  | 3712           | 3712           | False          |
| 10         | 1           | 32           | 2           | 1      | 0       | -3.91155481338501e-08   | 16896          | 16896          | False          |
| 10         | 1           | 32           | 2           | 1      | 1       | -1.1175870895385742e-08 | 18560          | 18560          | False          |
| 10         | 1           | 32           | 3           | 1      | 0       | -2.8312206268310547e-07 | 35936          | 35936          | False          |
| 10         | 1           | 32           | 3           | 1      | 1       | 1.1548399925231934e-07  | 36608          | 36608          | False          |
| 10         | 32          | 16           | 1           | 1      | 0       | -1.7881393432617188e-07 | 63152          | 63152          | False          |
| 10         | 32          | 16           | 1           | 1      | 1       | -3.725290298461914e-08  | 62864          | 62864          | False          |
| 10         | 32          | 16           | 2           | 1      | 0       | -2.2351741790771484e-07 | 173344         | 173344         | False          |
| 10         | 32          | 16           | 2           | 1      | 1       | -1.3783574104309082e-06 | 183440         | 183440         | False          |
| 10         | 32          | 16           | 3           | 1      | 0       | -2.384185791015625e-07  | 228432         | 228432         | False          |
| 10         | 32          | 16           | 3           | 1      | 1       | -5.066394805908203e-07  | 248928         | 248928         | False          |
| 10         | 32          | 32           | 1           | 1      | 0       | -2.8312206268310547e-07 | 127360         | 127360         | False          |
| 10         | 32          | 32           | 1           | 1      | 1       | 2.5331974029541016e-07  | 128352         | 128352         | False          |
| 10         | 32          | 32           | 2           | 1      | 0       | 1.8998980522155762e-07  | 349184         | 349184         | False          |
| 10         | 32          | 32           | 2           | 1      | 1       | -2.2351741790771484e-07 | 368672         | 368672         | False          |
| 10         | 32          | 32           | 3           | 1      | 0       | 1.4901161193847656e-06  | 463968         | 463968         | False          |
| 10         | 32          | 32           | 3           | 1      | 1       | -2.9802322387695312e-08 | 501120         | 501120         | False          |
| 100        | 1           | 16           | 1           | 1      | 0       | 1.825392246246338e-07   | 23376          | 23376          | False          |
| 100        | 1           | 16           | 1           | 1      | 1       | 2.384185791015625e-07   | 22288          | 22288          | False          |
| 100        | 1           | 16           | 2           | 1      | 0       | -1.9371509552001953e-07 | 82272          | 82272          | False          |
| 100        | 1           | 16           | 2           | 1      | 1       | -2.421438694000244e-07  | 84672          | 84672          | False          |
| 100        | 1           | 16           | 3           | 1      | 0       | 6.109476089477539e-07   | 183120         | 183120         | False          |

|     |    |    |   |   |   |                         |         |         |       |
|-----|----|----|---|---|---|-------------------------|---------|---------|-------|
| 100 | 1  | 16 | 3 | 1 | 1 | -7.003545761108398e-07  | 195968  | 195968  | False |
| 100 | 1  | 32 | 1 | 1 | 0 | -2.905726432800293e-07  | 45696   | 45696   | False |
| 100 | 1  | 32 | 1 | 1 | 1 | -2.0489096641540527e-07 | 43712   | 43712   | False |
| 100 | 1  | 32 | 2 | 1 | 0 | 1.3783574104309082e-07  | 170464  | 170464  | False |
| 100 | 1  | 32 | 2 | 1 | 1 | 2.849847078323364e-07   | 181152  | 181152  | False |
| 100 | 1  | 32 | 3 | 1 | 0 | 5.960464477539063e-08   | 373792  | 373792  | False |
| 100 | 1  | 32 | 3 | 1 | 1 | 2.0489096641540527e-07  | 394368  | 394368  | False |
| 100 | 32 | 16 | 1 | 1 | 0 | 8.642673492431641e-07   | 638944  | 638944  | False |
| 100 | 32 | 16 | 1 | 1 | 1 | -8.642673492431641e-07  | 640928  | 640928  | False |
| 100 | 32 | 16 | 2 | 1 | 0 | -1.1175870895385742e-06 | 1728736 | 1728736 | False |
| 100 | 32 | 16 | 2 | 1 | 1 | -8.344650268554688e-07  | 1842928 | 1842928 | False |
| 100 | 32 | 16 | 3 | 1 | 0 | -8.344650268554688e-07  | 2307776 | 2307776 | False |
| 100 | 32 | 16 | 3 | 1 | 1 | -9.5367431640625e-07    | 2510432 | 2510432 | False |
| 100 | 32 | 32 | 1 | 1 | 0 | 2.682209014892578e-07   | 1274688 | 1274688 | False |
| 100 | 32 | 32 | 1 | 1 | 1 | -4.470348358154297e-07  | 1278944 | 1278944 | False |
| 100 | 32 | 32 | 2 | 1 | 0 | 1.9073486328125e-06     | 3449056 | 3449056 | False |
| 100 | 32 | 32 | 2 | 1 | 1 | -3.5762786865234375e-06 | 3660768 | 3660768 | False |
| 100 | 32 | 32 | 3 | 1 | 0 | 2.7418136596679688e-06  | 4624672 | 4624672 | False |
| 100 | 32 | 32 | 3 | 1 | 1 | 5.960464477539063e-08   | 5025056 | 5025056 | False |

## Failed Test Cases

| batch_size | in_channels | out_channels | kernel_size | stride | padding | output_sum_diff       | nnz_cpp_result | nnz_torch_eval | nnz_difference |
|------------|-------------|--------------|-------------|--------|---------|-----------------------|----------------|----------------|----------------|
| 10         | 1           | 16           | 1           | 2      | 0       | 0.7021881341934204    | 2288           | 592            | True           |
| 10         | 1           | 16           | 1           | 2      | 1       | 0.3651781380176544    | 2080           | 576            | True           |
| 10         | 1           | 16           | 2           | 2      | 0       | -0.16128063201904297  | 4448           | 2256           | True           |
| 10         | 1           | 16           | 2           | 2      | 1       | -0.43152719736099243  | 4560           | 2112           | True           |
| 10         | 1           | 16           | 3           | 2      | 0       | -0.0566292479634285   | 7920           | 4704           | True           |
| 10         | 1           | 16           | 3           | 2      | 1       | -0.03418858349323273  | 8016           | 4624           | True           |
| 10         | 1           | 32           | 1           | 2      | 0       | -0.4320717453956604   | 4832           | 1280           | True           |
| 10         | 1           | 32           | 1           | 2      | 1       | -0.039839208126068115 | 4992           | 1120           | True           |
| 10         | 1           | 32           | 2           | 2      | 0       | 0.2541143298149109    | 8960           | 4000           | True           |
| 10         | 1           | 32           | 2           | 2      | 1       | -0.2641303539276123   | 10816          | 4448           | True           |
| 10         | 1           | 32           | 3           | 2      | 0       | 1.2162957191467285    | 16096          | 9056           | True           |
| 10         | 1           | 32           | 3           | 2      | 1       | -1.880796194076538    | 15648          | 9120           | True           |

|     |    |    |   |   |   |                      |         |         |      |
|-----|----|----|---|---|---|----------------------|---------|---------|------|
| 10  | 32 | 16 | 1 | 2 | 0 | -1.2803881168365479  | 45120   | 15360   | True |
| 10  | 32 | 16 | 1 | 2 | 1 | 2.339843273162842    | 46096   | 15888   | True |
| 10  | 32 | 16 | 2 | 2 | 0 | 1.0378429889678955   | 62432   | 44960   | True |
| 10  | 32 | 16 | 2 | 2 | 1 | 1.9784281253814697   | 67136   | 47088   | True |
| 10  | 32 | 16 | 3 | 2 | 0 | 6.565918922424316    | 63152   | 58160   | True |
| 10  | 32 | 16 | 3 | 2 | 1 | -3.780818462371826   | 68928   | 62704   | True |
| 10  | 32 | 32 | 1 | 2 | 0 | 0.3182179927825928   | 92000   | 33344   | True |
| 10  | 32 | 32 | 1 | 2 | 1 | 0.19564288854599     | 94528   | 33696   | True |
| 10  | 32 | 32 | 2 | 2 | 0 | 0.3838813900947571   | 124992  | 90912   | True |
| 10  | 32 | 32 | 2 | 2 | 1 | -1.2023870944976807  | 131744  | 92224   | True |
| 10  | 32 | 32 | 3 | 2 | 0 | -9.272660255432129   | 125728  | 116160  | True |
| 10  | 32 | 32 | 3 | 2 | 1 | 1.2748466730117798   | 138496  | 126944  | True |
| 100 | 1  | 16 | 1 | 2 | 0 | 1.0466907024383545   | 23072   | 5600    | True |
| 100 | 1  | 16 | 1 | 2 | 1 | 0.3881438970565796   | 21600   | 5216    | True |
| 100 | 1  | 16 | 2 | 2 | 0 | -0.2093294858932495  | 46816   | 21760   | True |
| 100 | 1  | 16 | 2 | 2 | 1 | 0.04558283090591431  | 48176   | 22032   | True |
| 100 | 1  | 16 | 3 | 2 | 0 | -2.0818822383880615  | 76208   | 42928   | True |
| 100 | 1  | 16 | 3 | 2 | 1 | 2.1086368560791016   | 79904   | 45632   | True |
| 100 | 1  | 32 | 1 | 2 | 0 | -0.0341452956199646  | 45152   | 11424   | True |
| 100 | 1  | 32 | 1 | 2 | 1 | 0.023951224982738495 | 45472   | 10944   | True |
| 100 | 1  | 32 | 2 | 2 | 0 | -1.3496034145355225  | 93728   | 43648   | True |
| 100 | 1  | 32 | 2 | 2 | 1 | 0.23838159441947937  | 101440  | 44832   | True |
| 100 | 1  | 32 | 3 | 2 | 0 | 0.40606188774108887  | 157440  | 91712   | True |
| 100 | 1  | 32 | 3 | 2 | 1 | 3.738457441329956    | 164032  | 95520   | True |
| 100 | 32 | 16 | 1 | 2 | 0 | 0.742663562297821    | 451200  | 156432  | True |
| 100 | 32 | 16 | 1 | 2 | 1 | 3.6661295890808105   | 462928  | 158752  | True |
| 100 | 32 | 16 | 2 | 2 | 0 | -9.900106430053711   | 627104  | 452976  | True |
| 100 | 32 | 16 | 2 | 2 | 1 | 2.614128589630127    | 662992  | 463456  | True |
| 100 | 32 | 16 | 3 | 2 | 0 | 7.988638877868652    | 629168  | 576224  | True |
| 100 | 32 | 16 | 3 | 2 | 1 | -14.21040153503418   | 689280  | 623568  | True |
| 100 | 32 | 32 | 1 | 2 | 0 | -6.783827304840088   | 902944  | 319648  | True |
| 100 | 32 | 32 | 1 | 2 | 1 | 3.0733816623687744   | 928576  | 317952  | True |
| 100 | 32 | 32 | 2 | 2 | 0 | 0.18418478965759277  | 1253536 | 903776  | True |
| 100 | 32 | 32 | 2 | 2 | 1 | -3.140298843383789   | 1324192 | 925376  | True |
| 100 | 32 | 32 | 3 | 2 | 0 | 14.377982139587402   | 1259424 | 1155936 | True |

|     |    |    |   |   |   |                     |         |         |      |
|-----|----|----|---|---|---|---------------------|---------|---------|------|
| 100 | 32 | 32 | 3 | 2 | 1 | -21.573287963867188 | 1377760 | 1254304 | True |
|-----|----|----|---|---|---|---------------------|---------|---------|------|

**Difference Detected:**

Batch Size: 10  
Input Channels: 1  
Output Channels: 16  
Kernel Size: 1  
Stride: 2  
Padding: 0  
Output Sum Difference: 0.7021881341934204  
nnz Cpp Result: 2288  
nnz Torch Eval: 592

**Difference Detected:**

Batch Size: 10  
Input Channels: 1  
Output Channels: 16  
Kernel Size: 1  
Stride: 2  
Padding: 1  
Output Sum Difference: 0.3651781380176544  
nnz Cpp Result: 2080  
nnz Torch Eval: 576

**Difference Detected:**

Batch Size: 10  
Input Channels: 1  
Output Channels: 16  
Kernel Size: 2  
Stride: 2  
Padding: 0  
Output Sum Difference: -0.16128063201904297  
nnz Cpp Result: 4448  
nnz Torch Eval: 2256

**Difference Detected:**

Batch Size: 10  
Input Channels: 1  
Output Channels: 16  
Kernel Size: 2  
Stride: 2  
Padding: 1  
Output Sum Difference: -0.43152719736099243  
nnz Cpp Result: 4560  
nnz Torch Eval: 2112

**Difference Detected:**

Batch Size: 10  
Input Channels: 1

Output Channels: 16  
Kernel Size: 3  
Stride: 2  
Padding: 0  
Output Sum Difference: -0.0566292479634285  
nnz Cpp Result: 7920  
nnz Torch Eval: 4704

**Difference Detected:**

Batch Size: 10  
Input Channels: 1  
Output Channels: 16  
Kernel Size: 3  
Stride: 2  
Padding: 1  
Output Sum Difference: -0.03418858349323273  
nnz Cpp Result: 8016  
nnz Torch Eval: 4624

**Difference Detected:**

Batch Size: 10  
Input Channels: 1  
Output Channels: 32  
Kernel Size: 1  
Stride: 2  
Padding: 0  
Output Sum Difference: -0.4320717453956604  
nnz Cpp Result: 4832  
nnz Torch Eval: 1280

**Difference Detected:**

Batch Size: 10  
Input Channels: 1  
Output Channels: 32  
Kernel Size: 1  
Stride: 2  
Padding: 1  
Output Sum Difference: -0.039839208126068115  
nnz Cpp Result: 4992  
nnz Torch Eval: 1120

**Difference Detected:**

Batch Size: 10  
Input Channels: 1  
Output Channels: 32  
Kernel Size: 2  
Stride: 2  
Padding: 0

Output Sum Difference: 0.2541143298149109  
nnz Cpp Result: 8960  
nnz Torch Eval: 4000

**Difference Detected:**

Batch Size: 10  
Input Channels: 1  
Output Channels: 32  
Kernel Size: 2  
Stride: 2  
Padding: 1  
Output Sum Difference: -0.2641303539276123  
nnz Cpp Result: 10816  
nnz Torch Eval: 4448

**Difference Detected:**

Batch Size: 10  
Input Channels: 1  
Output Channels: 32  
Kernel Size: 3  
Stride: 2  
Padding: 0  
Output Sum Difference: 1.2162957191467285  
nnz Cpp Result: 16096  
nnz Torch Eval: 9056

**Difference Detected:**

Batch Size: 10  
Input Channels: 1  
Output Channels: 32  
Kernel Size: 3  
Stride: 2  
Padding: 1  
Output Sum Difference: -1.880796194076538  
nnz Cpp Result: 15648  
nnz Torch Eval: 9120

**Difference Detected:**

Batch Size: 10  
Input Channels: 32  
Output Channels: 16  
Kernel Size: 1  
Stride: 2  
Padding: 0  
Output Sum Difference: -1.2803881168365479  
nnz Cpp Result: 45120  
nnz Torch Eval: 15360

**Difference Detected:**

Batch Size: 10  
Input Channels: 32  
Output Channels: 16  
Kernel Size: 1  
Stride: 2  
Padding: 1  
Output Sum Difference: 2.339843273162842  
nnz Cpp Result: 46096  
nnz Torch Eval: 15888

**Difference Detected:**

Batch Size: 10  
Input Channels: 32  
Output Channels: 16  
Kernel Size: 2  
Stride: 2  
Padding: 0  
Output Sum Difference: 1.0378429889678955  
nnz Cpp Result: 62432  
nnz Torch Eval: 44960

**Difference Detected:**

Batch Size: 10  
Input Channels: 32  
Output Channels: 16  
Kernel Size: 2  
Stride: 2  
Padding: 1  
Output Sum Difference: 1.9784281253814697  
nnz Cpp Result: 67136  
nnz Torch Eval: 47088

**Difference Detected:**

Batch Size: 10  
Input Channels: 32  
Output Channels: 16  
Kernel Size: 3  
Stride: 2  
Padding: 0  
Output Sum Difference: 6.565918922424316  
nnz Cpp Result: 63152  
nnz Torch Eval: 58160

**Difference Detected:**

Batch Size: 10  
Input Channels: 32



Output Channels: 16  
Kernel Size: 3  
Stride: 2  
Padding: 1  
Output Sum Difference: -3.780818462371826  
nnz Cpp Result: 68928  
nnz Torch Eval: 62704

**Difference Detected:**

Batch Size: 10  
Input Channels: 32  
Output Channels: 32  
Kernel Size: 1  
Stride: 2  
Padding: 0  
Output Sum Difference: 0.3182179927825928  
nnz Cpp Result: 92000  
nnz Torch Eval: 33344

**Difference Detected:**

Batch Size: 10  
Input Channels: 32  
Output Channels: 32  
Kernel Size: 1  
Stride: 2  
Padding: 1  
Output Sum Difference: 0.19564288854599  
nnz Cpp Result: 94528  
nnz Torch Eval: 33696

**Difference Detected:**

Batch Size: 10  
Input Channels: 32  
Output Channels: 32  
Kernel Size: 2  
Stride: 2  
Padding: 0  
Output Sum Difference: 0.3838813900947571  
nnz Cpp Result: 124992  
nnz Torch Eval: 90912

**Difference Detected:**

Batch Size: 10  
Input Channels: 32  
Output Channels: 32  
Kernel Size: 2  
Stride: 2  
Padding: 1

Output Sum Difference: -1.2023870944976807  
nnz Cpp Result: 131744  
nnz Torch Eval: 92224

**Difference Detected:**

Batch Size: 10  
Input Channels: 32  
Output Channels: 32  
Kernel Size: 3  
Stride: 2  
Padding: 0  
Output Sum Difference: -9.272660255432129  
nnz Cpp Result: 125728  
nnz Torch Eval: 116160

**Difference Detected:**

Batch Size: 10  
Input Channels: 32  
Output Channels: 32  
Kernel Size: 3  
Stride: 2  
Padding: 1  
Output Sum Difference: 1.2748466730117798  
nnz Cpp Result: 138496  
nnz Torch Eval: 126944

**Difference Detected:**

Batch Size: 100  
Input Channels: 1  
Output Channels: 16  
Kernel Size: 1  
Stride: 2  
Padding: 0  
Output Sum Difference: 1.0466907024383545  
nnz Cpp Result: 23072  
nnz Torch Eval: 5600

**Difference Detected:**

Batch Size: 100  
Input Channels: 1  
Output Channels: 16  
Kernel Size: 1  
Stride: 2  
Padding: 1  
Output Sum Difference: 0.3881438970565796  
nnz Cpp Result: 21600  
nnz Torch Eval: 5216

**Difference Detected:**

Batch Size: 100  
Input Channels: 1  
Output Channels: 16  
Kernel Size: 2  
Stride: 2  
Padding: 0  
Output Sum Difference: -0.2093294858932495  
nnz Cpp Result: 46816  
nnz Torch Eval: 21760

**Difference Detected:**

Batch Size: 100  
Input Channels: 1  
Output Channels: 16  
Kernel Size: 2  
Stride: 2  
Padding: 1  
Output Sum Difference: 0.04558283090591431  
nnz Cpp Result: 48176  
nnz Torch Eval: 22032

**Difference Detected:**

Batch Size: 100  
Input Channels: 1  
Output Channels: 16  
Kernel Size: 3  
Stride: 2  
Padding: 0  
Output Sum Difference: -2.0818822383880615  
nnz Cpp Result: 76208  
nnz Torch Eval: 42928

**Difference Detected:**

Batch Size: 100  
Input Channels: 1  
Output Channels: 16  
Kernel Size: 3  
Stride: 2  
Padding: 1  
Output Sum Difference: 2.1086368560791016  
nnz Cpp Result: 79904  
nnz Torch Eval: 45632

**Difference Detected:**

Batch Size: 100  
Input Channels: 1

Output Channels: 32  
Kernel Size: 1  
Stride: 2  
Padding: 0  
Output Sum Difference: -0.0341452956199646  
nnz Cpp Result: 45152  
nnz Torch Eval: 11424

**Difference Detected:**

Batch Size: 100  
Input Channels: 1  
Output Channels: 32  
Kernel Size: 1  
Stride: 2  
Padding: 1  
Output Sum Difference: 0.023951224982738495  
nnz Cpp Result: 45472  
nnz Torch Eval: 10944

**Difference Detected:**

Batch Size: 100  
Input Channels: 1  
Output Channels: 32  
Kernel Size: 2  
Stride: 2  
Padding: 0  
Output Sum Difference: -1.3496034145355225  
nnz Cpp Result: 93728  
nnz Torch Eval: 43648

**Difference Detected:**

Batch Size: 100  
Input Channels: 1  
Output Channels: 32  
Kernel Size: 2  
Stride: 2  
Padding: 1  
Output Sum Difference: 0.23838159441947937  
nnz Cpp Result: 101440  
nnz Torch Eval: 44832

**Difference Detected:**

Batch Size: 100  
Input Channels: 1  
Output Channels: 32  
Kernel Size: 3  
Stride: 2  
Padding: 0

Output Sum Difference: 0.40606188774108887  
nnz Cpp Result: 157440  
nnz Torch Eval: 91712

**Difference Detected:**

Batch Size: 100  
Input Channels: 1  
Output Channels: 32  
Kernel Size: 3  
Stride: 2  
Padding: 1  
Output Sum Difference: 3.738457441329956  
nnz Cpp Result: 164032  
nnz Torch Eval: 95520

**Difference Detected:**

Batch Size: 100  
Input Channels: 32  
Output Channels: 16  
Kernel Size: 1  
Stride: 2  
Padding: 0  
Output Sum Difference: 0.742663562297821  
nnz Cpp Result: 451200  
nnz Torch Eval: 156432

**Difference Detected:**

Batch Size: 100  
Input Channels: 32  
Output Channels: 16  
Kernel Size: 1  
Stride: 2  
Padding: 1  
Output Sum Difference: 3.6661295890808105  
nnz Cpp Result: 462928  
nnz Torch Eval: 158752

**Difference Detected:**

Batch Size: 100  
Input Channels: 32  
Output Channels: 16  
Kernel Size: 2  
Stride: 2  
Padding: 0  
Output Sum Difference: -9.900106430053711  
nnz Cpp Result: 627104  
nnz Torch Eval: 452976

**Difference Detected:**

Batch Size: 100  
Input Channels: 32  
Output Channels: 16  
Kernel Size: 2  
Stride: 2  
Padding: 1  
Output Sum Difference: 2.614128589630127  
nnz Cpp Result: 662992  
nnz Torch Eval: 463456

**Difference Detected:**

Batch Size: 100  
Input Channels: 32  
Output Channels: 16  
Kernel Size: 3  
Stride: 2  
Padding: 0  
Output Sum Difference: 7.988638877868652  
nnz Cpp Result: 629168  
nnz Torch Eval: 576224

**Difference Detected:**

Batch Size: 100  
Input Channels: 32  
Output Channels: 16  
Kernel Size: 3  
Stride: 2  
Padding: 1  
Output Sum Difference: -14.21040153503418  
nnz Cpp Result: 689280  
nnz Torch Eval: 623568

**Difference Detected:**

Batch Size: 100  
Input Channels: 32  
Output Channels: 32  
Kernel Size: 1  
Stride: 2  
Padding: 0  
Output Sum Difference: -6.783827304840088  
nnz Cpp Result: 902944  
nnz Torch Eval: 319648

**Difference Detected:**

Batch Size: 100  
Input Channels: 32

Output Channels: 32  
Kernel Size: 1  
Stride: 2  
Padding: 1  
Output Sum Difference: 3.0733816623687744  
nnz Cpp Result: 928576  
nnz Torch Eval: 317952

**Difference Detected:**

Batch Size: 100  
Input Channels: 32  
Output Channels: 32  
Kernel Size: 2  
Stride: 2  
Padding: 0  
Output Sum Difference: 0.18418478965759277  
nnz Cpp Result: 1253536  
nnz Torch Eval: 903776

**Difference Detected:**

Batch Size: 100  
Input Channels: 32  
Output Channels: 32  
Kernel Size: 2  
Stride: 2  
Padding: 1  
Output Sum Difference: -3.140298843383789  
nnz Cpp Result: 1324192  
nnz Torch Eval: 925376

**Difference Detected:**

Batch Size: 100  
Input Channels: 32  
Output Channels: 32  
Kernel Size: 3  
Stride: 2  
Padding: 0  
Output Sum Difference: 14.377982139587402  
nnz Cpp Result: 1259424  
nnz Torch Eval: 1155936

**Difference Detected:**

Batch Size: 100  
Input Channels: 32  
Output Channels: 32  
Kernel Size: 3  
Stride: 2  
Padding: 1

Output Sum Difference: -21.573287963867188  
nnz Cpp Result: 1377760  
nnz Torch Eval: 1254304