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|----------|-----|-----|-----|-----|-----|---------|--------|--------------|-------------|-----|--------|------------------|-----------------|--------------|-----------|--------------|-----------|------|--------|-----|---------|-------|
| seq2seq | 3 | 2 | 35 | 0 | 0 | 0 | 32 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 20 | 0 | 1 | 0 | 0 |
| memnet | 2 | 1 | 33 | 1 | 0 | 4 | 12 | 2 | 0 | 9 | 0 | 0 | 0 | 0 | 5 | 0 | 9 | 13 | 0 | 0 | 1 | 1 |
| speech | 0 | 0 | 0 | 0 | 0 | 0 | 89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 3 | 0 | 0 | 0 |
| autoenc | 3 | 0 | 6 | 0 | 5 | 0 | 58 | 0 | 0 | 2 | 0 | 0 | 0 | 5 | 8 | 0 | 0 | 9 | 0 | 0 | 0 | 0 |
| residual | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 34 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| vgg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 31 | 30 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| alexnet | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 3 | 0 | 31 | 26 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| deepq | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 33 | 27 | 20 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Add | Sub | Mul | Div | Pow | Softmax | MetMul | CrossEntropy | MaxPoolGrad | Sum | Conv2D | Conv2DBackFilter | Conv2DBackInput | RandomNormal | ApplyAdam | ApplyRMSProp | Transpose | Tile | Select | Pad | Reshape | Shape |
| | A | | | | | | B | | C | | D | | | E | F | | | G | | | | |

| Group | Op Class |
|-------|-------------------------|
| A | Elementwise Arithmetic |
| B | Matrix Operations |
| C | Reduction and Expansion |
| D | Convolution |
| E | Random Sampling |
| F | Optimization |
| G | Data Movement |