Convolution in Eyeriss V1 PE

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Scenario 1:
Filter (1D, single channel): [ 87 124 -143]
Ifmap 1: [ 27 -58 21 -76 4 -4 88]
Psum row 1: [ -7846 8426 -8169 -5544 -12732]
Ifmap 2: [ 46 -25 98 60 24 56 -12]
Psum row 2: [-13112 1397 12534 188 10748]
Therefore, 10 psum registers are used in total.
Scenario 2:
Single Ifmap (1D): [ 88 146 78 -129 -123 -30 68 -61 28 -137]
Filters:
Filter 1: [-47 -46 5 19 21]
Filter 2: [ 8 -29 32 46 -6]
Interleaved Filters: [-47 8 -46 -29 5 32 19 46 21 -6]
Psum (one per filter):
Output 1: [-15496 -14062 2511 11582 6930 -4368]
Output 2: [ -6230 -10700 -1359 5069 -912 -2054]
Interleaved Psums:
[-15496 -6230 -14062 -10700 2511 -1359 11582 5069 6930 -912 -4368 -2054]
Therefore, 12 psum registers are used in total.
Scenario 3:
2 * Interleaved Filters (size=3): [ -67 187 138 138 15 -111]
2 * Interleaved Ifmaps (size=5): [ 74 -64 22 74 73 42 -20 -38 -60 -17]
Psum row: [-7245 31538 32152 17819 -4054]
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