Dims [0, N-1] are always tightly packed physically in memory

16

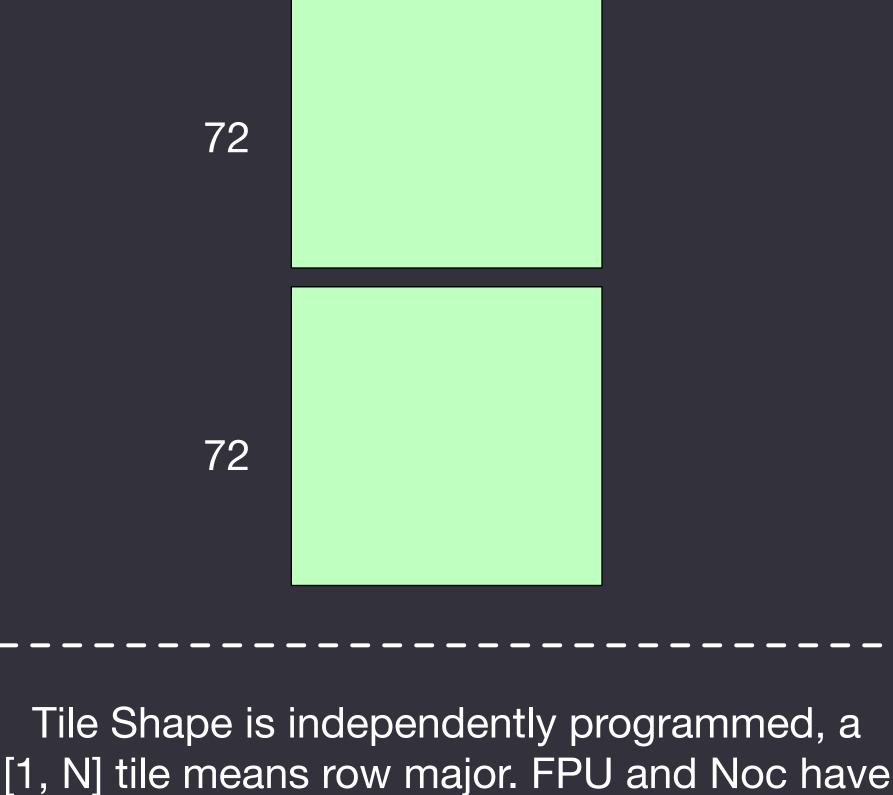
144

that divides the above form. Here we have shard shape 72x16

16

Regardless of RM or tiled,

shard shape is expressed as 2D logical shape



The physical shard shape is always the logical shard shape padded out to tile shape.

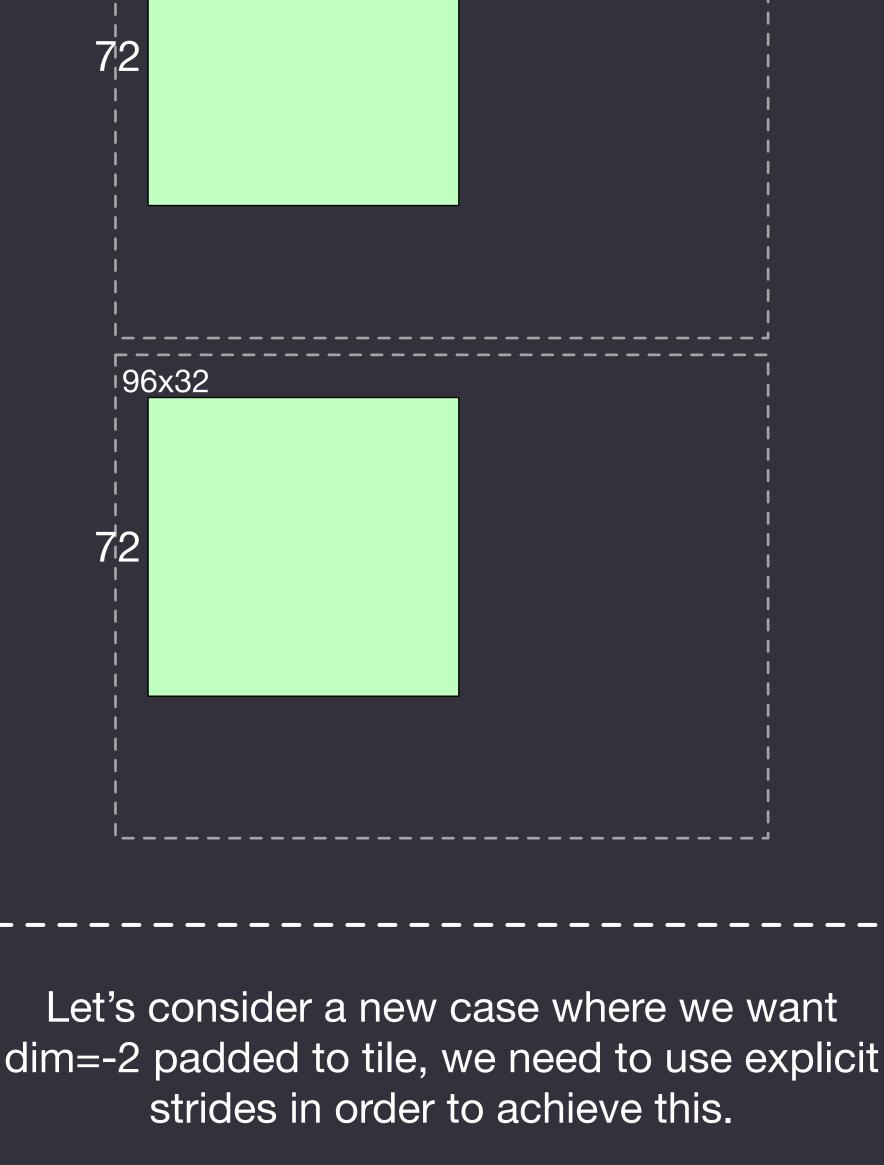
Here we've programmed a tile shape of 32x32

this implicitly bumps the physical shard shape

to 96x32.

constraints that need to be enforced.

96x32 16



To "pad" dim=-2 out to multiples of 32 we'd instead explicitly program:

512x16x1

Dims [0, N-1] are always tightly packed

physically in memory

Again, given some Input Tensor w/ dims: 12x12x16

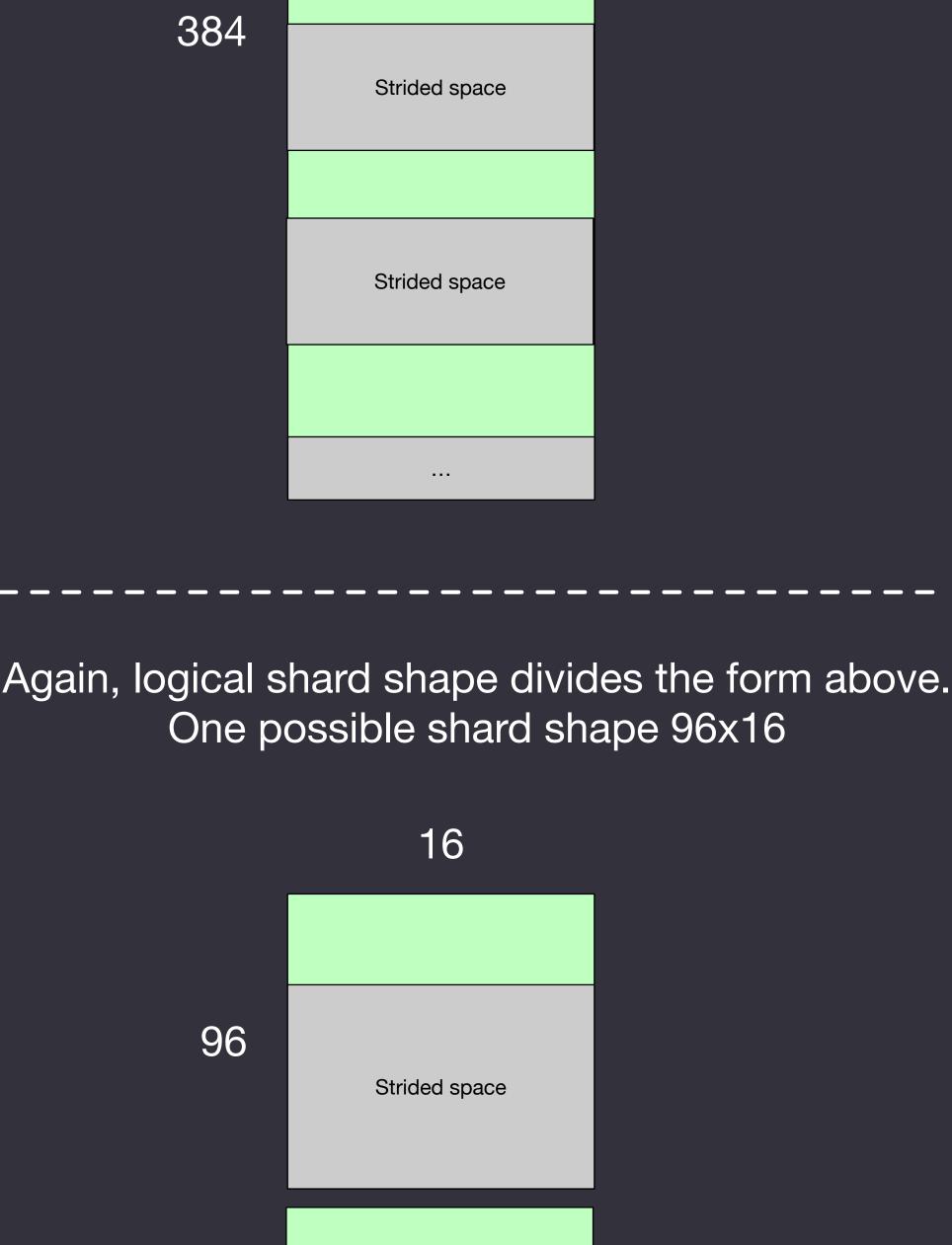
By default the stride for this tensor would be:

192x16x1

16

Strided space

Strided space



96

96
Strided space

96
Strided space

Again, physical shape gets padded to tile.

Again, here tile is 32x32

