GPU Hardware Architecture SM I-Cache **SM SM SM** SM MT Issue C-Cache SP . . . SP SFU SFU SFU SFU SFU SFU SFU SFU SFU SP SP Shared Shared Shared Shared Memory Memory Memory Memory Memory **SFU SFU** Shared Texture Unit Texture Unit Memory Tex L1 Tex L1

SM

SP

SP

SP

SP

SFU

Texture Unit

Tex L1

Shared

SM

SP

SP

SP

SP

SFU

Shared

Memory

SP

SP

SP

SP

SFU