| KERNELS | FORMATS    | FORMAT VARIABLES  | CONVERSIONS | CONVERSION VARIABLES  |
|---------|------------|---|-------------|---|
|         | in_format  | fmt <sub>col_major,in</sub> , fmt <sub>row_major,in</sub>     |             |   |
|         |            |   | conversion1 | CONV <sub>col_major,col_major,c1</sub> , CONV <sub>col_major,row_major,c1</sub> , CONV <sub>row_major,col_major,c1</sub> , CONV <sub>row_major,row_major,c1</sub> |
| knl1    | format1    | fmt <sub>col_major,knl1</sub> , fmt <sub>row_major,knl1</sub> |             |   |
|         |            |   | conversion2 | conv <sub>col_major,col_major,c2</sub> , conv <sub>col_major,row_major,c2</sub> , conv <sub>row_major,col_major,c2</sub> , conv <sub>row_major,row_major,c2</sub> |
| knl2    | format2    | $fmt_{col\_major,knl2}$ , $fmt_{row\_major,knl2}$             |             |   |
|         |            |   | conversion3 | CONV <sub>col_major,col_major,c3</sub> , CONV <sub>col_major,row_major,c3</sub> , CONV <sub>row_major,col_major,c3</sub> , CONV <sub>row_major,row_major,c3</sub> |
| knl3    | format3    | fmt <sub>col_major,knl3</sub> , fmt <sub>row_major,knl3</sub> |             |   |
|         |            |   | conversion4 | CONV <sub>col_major,col_major,c4</sub> , CONV <sub>col_major,row_major,c4</sub> , CONV <sub>row_major,col_major,c4</sub> , CONV <sub>row_major,row_major,c4</sub> |
|         | out_format | $fmt_{col\_major,out}$ , $fmt_{row\_major,out}$               |             |   |
|         |            |   |             |   |
|         |            |   |             |   |
|         |            |   |             |   |