

| KERNELS | FORMATS | FORMAT VARIABLES |
|---------|------------|---|
| | in_format | $\text{fmt}_{\text{col_major,in}}$, $\text{fmt}_{\text{row_major,in}}$ |
| kn1 | format1 | $\text{fmt}_{\text{col_major,kn1}}$, $\text{fmt}_{\text{row_major,kn1}}$ |
| kn2 | format2 | $\text{fmt}_{\text{col_major,kn2}}$, $\text{fmt}_{\text{row_major,kn2}}$ |
| kn3 | format3 | $\text{fmt}_{\text{col_major,kn3}}$, $\text{fmt}_{\text{row_major,kn3}}$ |
| | out_format | $\text{fmt}_{\text{col_major,out}}$, $\text{fmt}_{\text{row_major,out}}$ |



| CONVERSIONS | CONVERSION VARIABLES |
|-------------|--|
| conversion1 | $\text{conv}_{\text{col_major,col_major,c1}}$, $\text{conv}_{\text{col_major,row_major,c1}}$, $\text{conv}_{\text{row_major,col_major,c1}}$, $\text{conv}_{\text{row_major,row_major,c1}}$ |
| conversion2 | $\text{conv}_{\text{col_major,col_major,c2}}$, $\text{conv}_{\text{col_major,row_major,c2}}$, $\text{conv}_{\text{row_major,col_major,c2}}$, $\text{conv}_{\text{row_major,row_major,c2}}$ |
| conversion3 | $\text{conv}_{\text{col_major,col_major,c3}}$, $\text{conv}_{\text{col_major,row_major,c3}}$, $\text{conv}_{\text{row_major,col_major,c3}}$, $\text{conv}_{\text{row_major,row_major,c3}}$ |
| conversion4 | $\text{conv}_{\text{col_major,col_major,c4}}$, $\text{conv}_{\text{col_major,row_major,c4}}$, $\text{conv}_{\text{row_major,col_major,c4}}$, $\text{conv}_{\text{row_major,row_major,c4}}$ |