

arm_convolve_1x1_HWC
_q7_fast_nonsquare

arm_convolve_HWC_q7_fast

arm_convolve_HWC_q7
_fast_nonsquare

arm_nn_mat_mult_kernel
_q7_q15_reordered

```
graph LR; A[arm_convolve_1x1_HWC_q7_fast_nonsquare] --> D[arm_nn_mat_mult_kernel_q7_q15_reordered]; B[arm_convolve_HWC_q7_fast] --> D; C[arm_convolve_HWC_q7_fast_nonsquare] --> D;
```

The diagram illustrates a mapping from three specific ARM NN convolution functions to a single, more general matrix multiplication kernel. Three light gray boxes on the left, each containing a function name, have blue arrows pointing to a single dark gray box on the right. The functions on the left are 'arm_convolve_1x1_HWC_q7_fast_nonsquare', 'arm_convolve_HWC_q7_fast', and 'arm_convolve_HWC_q7_fast_nonsquare'. The target function on the right is 'arm_nn_mat_mult_kernel_q7_q15_reordered'.