6.45

First iterate through blocks then perform the transpose-copy of a single block.

void transpose(int \*dst, int \*src, int dim)

{

//define the size of the block 8 bytes

size\_t blocksize= 8;

//First two are for block iteration

for (int i = 0; i < dim; i += blocksize) {

for (int j = 0; j < dim; j += blocksize) {

//for transpose-copy iteration

for (int k = i; k < i + blocksize; ++k) {

for (int l = j; l < j + blocksize; ++l) {

dst[k + l\*dim] = src[l + k\*dim];

}

}

}

}